



# SEAMEO SEARCA

ANNUAL REPORT  
FY 2020/2021



Southeast Asian Regional Center for Graduate Study and Research in Agriculture

[www.searca.org](http://www.searca.org)



The Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) is one of the 26 specialist institutions of the Southeast Asian Ministers of Education Organization (SEAMEO). Founded on 27 November 1966, SEARCA is mandated to strengthen institutional capacities in agricultural and rural development in Southeast Asia through its core programs on education and collective learning, research and thought leadership, and emerging innovation for growth. It serves the 11 SEAMEO member countries, namely, Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam, and Timor-Leste. SEARCA is hosted by the Government of the Philippines on the campus of the University of the Philippines Los Baños (UPLB) in Laguna, Philippines. It is supported by donations from SEAMEO members and associate member states, other governments, and various international donor agencies.

SEAMEO SEARCA Annual Report FY 2020/2021

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**SEAMEO SEARCA  
ANNUAL REPORT  
FY 2020/2021**

**OUR STRATEGIC VISION**

A leading enabler and champion of excellence in  
agricultural and rural development in Southeast Asia

**OUR MISSION**

To elevate the quality of life of agricultural families through  
sustainable livelihoods and access to modern networks  
and innovative markets.



Photo by Tran Van Tuy

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## MESSAGE FROM THE DIRECTOR

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It is with immense excitement and renewed vigor that I present to you the SEARCA Annual Report for FY 2020/2021, our first year into the Center’s 11th Five-Year Plan. This crucial period marked the start of our journey to Accelerate Transformation Through Agricultural Innovation (ATTAIN), and I am pleased to present our strides made towards this noble ambition.

Our first year under the ATTAIN banner has been both challenging and invigorating. This transformative shift, aimed at fostering innovation to escalate the agricultural metamorphosis of Southeast Asia, required us to reorient our perspectives, adjust our methodologies, and broaden our horizons.

Our progress in this inaugural year is a testament to our collective passion and resilience. Our initiatives and projects, brought to life together with our committed partners, have empowered stakeholders and supported inclusive and sustainable growth in Southeast Asia’s agriculture sector.

Our collective success rests heavily on the shoulders of our vibrant community—from partners to researchers, development workers, beneficiaries, and our devoted staff—every individual has played a pivotal role in the accomplishment of our mission. Our programs have empowered individuals and institutions, providing them with the tools, training, and support they need to thrive in an evolving landscape. We also actively reached out to our youth, the custodians of our future, to nurture them through education and engagement to prepare them to take up the mantle.

While we rejoice in our accomplishments, we also acknowledge the challenges we faced along the way. But each obstacle encountered was an opportunity for growth, a chance to adapt, innovate, and strengthen our commitment to our mission. We move ahead, inspired by the knowledge that the best part of our story is yet to unfold.

Together, we will ATTAIN.

Glenn B. Gregorio  
Director, SEARCA



## EXECUTIVE SUMMARY

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Fiscal Year 2020/2021 marked the start of SEARCA's implementation of its 11th Five-Year Plan, which is articulated through its core programs on Education and Collective Learning, Research and Thought Leadership, and Emerging Innovation for Growth. All of SEARCA's efforts from FY 2020/2021 to FY 2024/2025 are focused on seven priority areas to contribute to the United Nations (UN) Sustainable Development Goals (SDGs), namely, Agri-Business Models for Increased Productivity and Income; Sustainable Farming Systems and Natural Resource Management, Food and Nutrition Security, Transformational Leadership for Agricultural and Rural Development (ARD), Gender and Youth Engagement in ARD, Enhanced ARD towards Climate Resilience, EcoHealth/One Health Applications to ARD.

The COVID-19 pandemic exacerbated the challenges in agriculture in Southeast Asia. Disruptions created supply and demand shocks that affected the agriculture sector's performance and food security. It has become crucial that there be a systemic transformation of agricultural systems into food systems that are not only productive, but also resilient

and sustainable. Through its 11th Five-Year Plan focused on Accelerating Transformation Through Agricultural Innovation (ATTAIN), SEARCA intends to address these challenges through programs geared towards five outcomes for ARD.

### **ATTAIN Outcome 1: Stakeholders embodying mindset transitions**

To develop a new breed of agriculture leaders and professionals that embody mindset transitions, SEARCA entered into partnerships that build the capacity of individuals working in ARD to pursue graduate studies and professional learning in fields significant to the SDGs and empower and equip higher education institutions as drivers of agricultural innovation. During the fiscal year, SEARCA awarded 21 new full master's and PhD scholarships and managed 130 ongoing graduate scholarships, among these are joint scholarships with the German Academic Exchange Service (DAAD), Agropolis Fondation of France, Malaysian Agricultural Research and Development Institute, Universiti Putra Malaysia, Bulacan State University, Philippine Carabao Center, Nagoya University, Tokyo University of Agriculture, and National University of Taiwan. SEARCA also implemented activities of the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) as its secretariat and Institutional Development Assistance initiatives in Cambodia. SEARCA also led the conduct of engagements toward building excellence in higher education, knowledge events, collaborative training programs, and webinars primarily through the SEARCA Online Learning and Virtual Engagement (SOLVE) platform in collaboration with other institutions. The learning and knowledge events facilitated wide sharing of best practices, technologies, and lessons learned among ARD stakeholders.

### **ATTAIN Outcome 2: Enabling policies and regulatory frameworks supporting ARD**

In FY 2020/2021, SEARCA carried out 14 high-impact projects in support of policy and program advisory relevant to Southeast Asian countries as well as research for ARD that are of national and regional relevance that will lead to transformational change. SEARCA also supported development of knowledge platforms namely, the AgPractices&Domains platform developed with the University of the Philippines Los Baños (UPLB) and funded by the University of Southern Queensland (USQ), Australia as well as the Agriculture, Forestry and

## EXECUTIVE SUMMARY

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Natural Resources (AFNR) knowledge platform. The Center is also working with the Economic Research Institute for ASEAN and East Asia (ERIA) to develop the ASEAN Guidelines for the Utilization of Digital Technologies for ASEAN Food and Agricultural Sector and with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in developing the ASEAN Guidelines on Climate Smart Agriculture (Vol. 3).

### **ATTAIN Outcome 3: Wider access to innovative products and services and business models for increased productivity and income**

SEARCA collaborated with 20 higher education institutions on various agricultural innovation projects in the Philippines to link innovation and technologies to farming communities and markets. SEARCA also partnered with key institutions and engaged with farmers and students to support the development and promotion of 35 start-up technologies, including those related to digital agriculture, precision farming, biomaterials, and agri-food. Moreover, its solid track record in project development and management enabled SEARCA to implement on projects that contribute to modernizing agriculture.

### **ATTAIN Outcome 4: Increased level of investment in the ARD sector**

SEARCA also invested in various grants to advance agricultural innovation. These funding support to agriculture professionals, scientists, researchers, and farmers include agri-incubation grants, Grants for Research towards Agricultural Innovative Solutions (GRAINS), SEARCA Regional Professorial Chair grants, and travel grants.

### **ATTAIN Outcome 5: Food and nutrition security ensuring well-being in an evolving lifestyle**

During the fiscal year, SEARCA took steps to improve food production and transform mindsets on food consumption that promote well-being in terms of food and nutrition security. The Center's initiatives on these were part of the following projects: School-plus- Home Gardens; Upgrading the Calamansi Value Chain towards Improving the Calamansi Industry in Oriental Mindoro, Philippines; and Agricultural Transformation and Market Integration in the ASEAN Region: Responding to Food Security and Inclusiveness Concerns.

## ORGANIZATIONAL HEALTH AND OPERATIONAL EXCELLENCE

To further articulate ATTAIN, SEARCA stepped up its efforts to disseminate information on its programs through its publications, website, and social media, as well as public relations activities, including press releases in print and online news channels and media interviews. SEARCA also launched the Young Forces for Agricultural Innovation (#Y4AGRI), its banner youth program, to enhance youth engagement in ARD, and the SEARCA Youth Ambassadors Platform (SAYAP) to mobilize its young staff as part of #Y4AGRI.

In FY 2020/2021, SEARCA also embarked on a massive infrastructure upgrade to set up the SEARCA Hub for Agriculture and Rural Innovation for the Next Generation (SHARING), an interactive museum space intended to inspire people to be AgriCreative, AgriInnovator, and Agripreneur. The iCREATE Innovation Café complements SHARING with makerspaces and training facility for robotics, prototyping, and design thinking to promote innovation. Alongside these construction projects were strategic improvements of physical assets at the SEARCA headquarters, including a major network cabling upgrade to ensure optimum internet connectivity, and the architectural design of the SEARCA Executive House that incorporates green building technology.

All these were achieved with a lean but agile workforce of staff, consultants, and Senior Fellows coupled with judicious financial and physical resources management as well as streamlined administrative procedures to support the implementation of the Center's 11th Five-Year Plan.

SEARCA's work for Southeast Asia in FY 2020/2021 was carried out through increased partnerships forged with 51 academe, industry, and government (AIG) institutions to create synergy for greater reach of its services and impact of its activities—all toward elevating the quality of life of agricultural families in the region.



Photo by Hansa Tangmanpoowadol

## INTRODUCTION

Through its 11th Five-Year Plan (2020-2025) focused on Accelerating Transformation Through Agricultural Innovation (ATTAIN), SEARCA endeavored to address these challenges through its core programs on education and collective learning, research and thought leadership, and emerging innovation for growth.

Fiscal Year 2020/2021 is the first year of SEARCA's 11th Five-Year Plan, which was implemented along seven ATTAIN Priority Areas that support the United Nations (UN) Sustainable Development Goals (SDGs). SEARCA committed to contribute and allocated resources toward the achievement of five SDGs that directly align with its mandate and focus, with greater emphasis on creating partnerships, and touches on three other SDGs.

SEARCA's mission in the next five years is to elevate the quality of life of agricultural families through sustainable livelihoods and access to modern networks and innovative markets. This strategic intent is presented in the Strategic Framework of SEARCA's 11th Five-Year Plan (Figure 1).

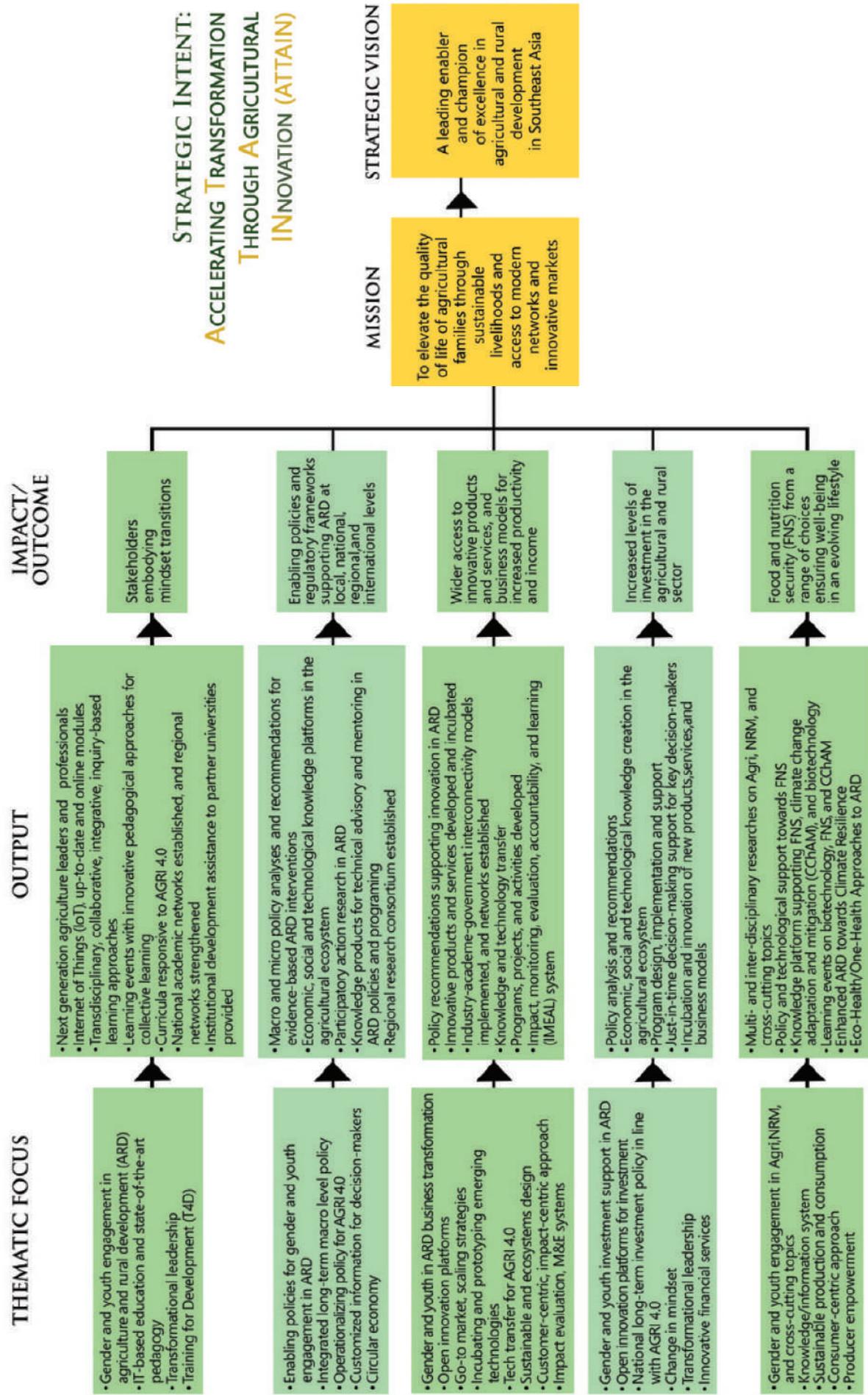


Figure 1. Strategic Framework of SEARCA's 11th Five-Year Plan.

To fulfill its mandate of empowering institutions working in ARD along its priority areas, SEARCA must create agents of change and thought leaders who will transform the landscape of agricultural and rural development. Through Education and Collective Learning (ECL), SEARCA aims to connect students, professionals, scientists, executives, teachers, and farmers to SEARCA's partner universities and research institutions to pursue graduate studies and professional learning in fields significant to the SDGs. At the same time, SEARCA will develop and manage graduate scholarship projects to support Southeast Asians pursuing advanced degrees in ARD along SEARCA's priority areas. The Center will also continue to provide institutional development assistance to universities that are strategically located in growth areas to boost economic development in the region. Training for development addresses relevant and urgent needs of SEARCA's stakeholders through technical training, practical courses, learning events, forums, roundtable discussions, and conferences that will facilitate the wide sharing of best practices, innovative technologies, and progressive mindsets.

Through Research and Thought Leadership (RTL), SEARCA will undertake policy analyses, research for development, and facilitate knowledge platforms. Aligning these services with the SDGs, SEARCA aims to create big ripples of impact that will reach the farmers more effectively. It intends to produce meaningful research in ARD that will create innovations leading to transformational change. SEARCA will also

engage in services that can assist lawmakers, state leaders, technocrats, and farmer leaders in crafting and implementing thought leadership strategies. This functional area can provide services in terms of policy research, formulation, and evaluation relevant to member states and leaders at the local, national, and regional levels. Through its knowledge platforms, SEARCA will provide accurate and timely sharing of information and technologies.

SEARCA envisions to be a gateway to the future of agricultural development through Emerging Innovation for Growth (EIG), which is articulated through open innovation and agri-incubation; knowledge and technology transfer; and project development, monitoring, and evaluation. SEARCA looks to partner with startups, universities, research institutions, small and medium enterprises, as well as corporations in serving as an agri-technology business incubator that provides supportive environment for starting enterprises. SEARCA also intends to establish intellectual property policy for its role in licensing and transfer of technologies developed by universities to industry players to create products for the marketplace. It will continue to capitalize on its institutional and technical expertise and solid track record in project development and management to embark on bigger programs with relevant partners.

These were carried out during the fiscal year following the ATTAIN Strategic Implementation Map with the end view of contributing to five ATTAIN Outcomes for ARD.

## ATTAIN OUTCOMES

In its 11th Five-Year Plan, SEARCA is expected to deliver five outcomes at the ground level towards accelerating transformation through agricultural innovation. These outcomes are:

1. Stakeholders embodying mindset transitions
2. Enabling policies and regulatory frameworks supporting ARD
3. Wider access to innovative products and services and business models for increased productivity and income
4. Increased level of investment in the ARD sector
5. Food and nutrition security ensuring well-being in an evolving lifestyle

## PATHS TOWARD TRANSFORMATION

### ATTAIN OUTCOME 1

#### STAKEHOLDERS EMBODYING MINDSET TRANSITIONS

To develop a new breed of agriculture leaders and professionals that embody mindset transitions, SEARCA forged partnerships to enable deserving individuals working in ARD to pursue graduate studies and professional learning in fields significant to the SDGs, and to empower and equip higher education institutions as drivers of agricultural innovation. For FY 2020/2021, SEARCA formally entered into seven new partnership agreements with national, regional, and international institutions and renewed a long-standing partnership.

#### ◆ Joint Scholarships

Through the years, SEARCA has sustained partnerships with international education networks and promoted new collaborations with industries and government agencies. To date, it has awarded 1,853 Master's and PhD scholarships to Southeast Asians, 587 of which were awarded under joint SEARCA scholarship projects (Annex 1).

Within the SEARCA-established Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC), SEARCA renewed its joint scholarship project with, which has seven scholars to date. SEARCA also formalized its partnership with Universitas Brawijaya (UB) to



Engr. Philip Donald C. Sanchez, a SEARCA scholar who just finished his MS in Agricultural Process Engineering at Universiti Putra Malaysia (UPM), was awarded Best Oral Presenter during the Malaysian Society of Agricultural and Food Engineers (MSAE) Webinar-Conference 2020.

collaborate in activities within areas of common interest.

The partnership between the Malaysian Agricultural Research and Development Institute (MARDI) and SEARCA aims to strengthen MARDI professionals in research and development through scholarship grants. MARDI-SEARCA scholars are expected to generate and promote new, appropriate, and efficient technologies to advance the food, agriculture, and food and agro-based industries.

Outside the region, SEARCA has forged new formal agreements with the German Academic Exchange Service (DAAD) and Agropolis Fondation, France. SEARCA's cooperation with DAAD since Academic Year 1975/1976 is its longest partnership, spanning 46 years. The new collaboration with DAAD for the

In-Country/In-Region Scholarship Programme will award a maximum of 46 new scholarships each year for three years starting AY 2021-2022. It aims to foster robust and internationally oriented higher education systems with the capacity to contribute to sustainable development. The partnership intends to produce graduates who can help solve development-related problems, strengthen education and research in Southeast Asia, and enhance networking with partner institutions and universities.

Agropolis Fondation and SEARCA co-funded a doctoral fellowship to support innovative, cross-sectoral, and interdisciplinary training or learning projects that promote agroecological transition through innovative approaches, tools, teams, and networks. Scholars under this scholarship can spend 18 months in France and 18 months in UC members.

These new partnerships enabled SEARCA to offer 12 cost-effective joint scholarship programs with external funding of USD 374,154 and PHP 524,778 for FY 2020/2021. A total of 14 new scholars were awarded during the fiscal year in addition to the 36 ongoing scholars (Annex 2).

SEARCA ensures quality in managing its scholarship projects by timely submission of required academic reports. In FY 2020/2021, SEARCA submitted DAAD monitoring reports, the 9th Philippine Carabao Center progress report, and reports to 10 ministries of education.

During the fiscal years, the Center also continued to manage 97 SEARCA regular scholarships (Annex 3), 35 PhD research scholarships (Annex 4), five dual degree scholarships (Annex 5), and three academic bridging scholarships (Annex 6).

SEARCA continues to serve as secretariat of the UC, which it launched in 1989 and is now an effective network linking strong universities in Southeast Asia, Japan, Taiwan, Canada, and Germany. In FY 2020/2021, SEARCA facilitated 11 new UC grants for student thesis, student and faculty travel, and seed funds for collaborative research and managed 16 other UC grants for student thesis, faculty mobility, and seed fund. A total of 12 UC grants were completed in FY 2020/2021 (Annex 7).

## ◆ Institutional Development

The Center has partnered with the Royal University of Agriculture (RUA) in Cambodia and the Commission on Higher Education (CHED), Philippines in line with its mandate of capacity building through Institutional Development Assistance (IDA) initiatives. Through IDA, SEARCA assists strategic higher education institutions with core competencies in agriculture-related disciplines to become catalysts of development in their countries. The partnership with RUA is part of the Higher Education Improvement Project (HEIP) of Cambodia's Ministry of Education, Youth and Sports (MoEYS). The cooperation with RUA aims to improve the university's internal quality assurance system to ensure the quality of education and serve as a tool for efficient and effective management of university

## PATHS TOWARD TRANSFORMATION



SEARCA conducted workshops on Internal Quality Assurance (IQA) manual development as part of its Institutional Development Assistance to RUA.

assets and talents. SEARCA conducted six online learning events under the HEIP project. These included Workshops on Internal Quality Assurance (IQA) Manual Development for RUA, Self-Assessment Report (SAR) and IQA Policy, IQA Manual Development, and the Presentation of SARs.

Building on its relationship with RUA and linkage with the Center of Excellence for Sustainable Agricultural Intensification and Nutrition (CE SAIN), SEARCA established a joint scholarship program with Universiti Sains Malaysia (USM). The partnership aims to build the capacity of Cambodians in aquaculture and develop the first aquatic science expert in the country through a graduate scholarship in USM.

SEARCA had only one scholar under its IDA Program during the fiscal year (Annex 8).

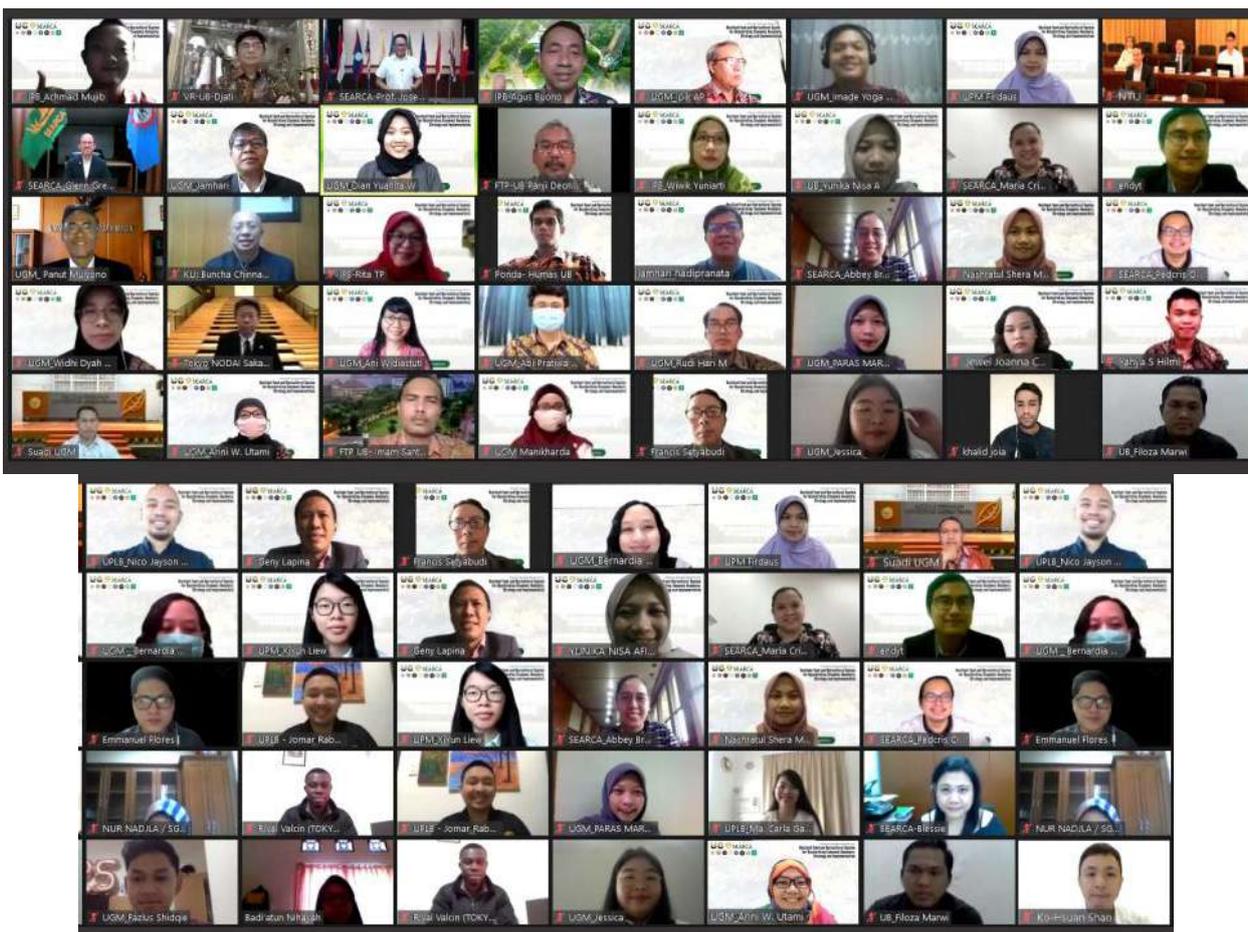
The project “Levelling-Up Philippine Higher Education Institutions in Agriculture, Fisheries, and Natural Resources (LevelUPHEI AFAR),” funded by the Philippine Commission on Higher Education (CHED), focuses on the capacity development of faculty members and research staff of Philippine higher education institutions, specifically those from members of the State Universities and Colleges - Association of Colleges of Agriculture in the Philippines, Inc. (SUC-ACAP). SUC-ACAP is an association of 74 public and private higher education institutions in the Philippines that offer agriculture programs. Part of the project is linking Philippine HEIs with the UC through training programs, summer schools, forums, cross-visits, and faculty and student mobilities.

## ◆ Building Excellence in Higher Education

SEARCA also promoted mindset transitions by leading various Southeast Asia-focused events and ATTAIN-aligned projects (Annex 9). One of them is the 2nd Faculty Forum on Agriculture and Beyond hosted by National Taiwan University (NTU) with 85 participants from IPB University (IPB), Universitas Gadjah Mada (UGM), UPM, University of the Philippines Los Banos

(UPLB), Kasetsart University (KU), UB, Tokyo University of Agriculture (Tokyo NODAI), NTU, University of British Columbia (UBC), and SEARCA.

The 6th UC Graduate Forum (UCGF) on Resilient Food and Agricultural Systems for Accelerating Economic Recovery: Strategy and Implementation was hosted by UGM with 31 graduate students from IPB, UGM, UPM, UPLB, KU, UB, Tokyo-NODAI, and NTU who presented the results of their studies.



Participants of the 6th UC Graduate Forum hosted by Universitas Gadjah Mada in Yogyakarta, Indonesia.

## PATHS TOWARD TRANSFORMATION

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SEARCA also organized the 33rd UC Executive Board Meeting with KU as host and 49 participants from 10 UC members. They evaluated the membership application of Central Luzon State University (CLSU) and Visayas State University (VSU), both in the Philippines, and Maejo University in Thailand and admitted all three as UC Affiliate Members effective 2021.

SEARCA and the UC completed the Master of Science in Food Security and Climate Change (MS FSCC) program funded by the ERASMUS+ Capacity Building for Higher Education program from 2016-2019. The MS FSCC aimed to develop professionals who will address the challenges of food security in the ASEAN integrated market. A total of 28 students spent at least one semester in EU partner universities and 55 students participated in one-semester mobilities within Southeast Asia. The Summer Schools from 2017 to 2019 had 119 delegates and 95 lecturers participated in trainings for trainers during the same period. The MS FSCC is currently in the process of being institutionalized in partner universities. In December 2020, the European Education and Culture Executive Agency (EACEA) accepted the MS FSCC final report and rated the project “Good.”

SEARCA also supported its first collaborative publication with the Regional SEARCA Alumni Association (RSAA). The book authors are SEARCA alumni from Indonesia, Lao PDR, the Philippines, Thailand, and Vietnam. The RSAA (formerly known as Regional SEARCA Fellows Association or RSFA) is the formal network of SEARCA alumni that work toward sustainable agricultural and rural development through conferences, seminars,

and collaborative research projects that bring together experts in the region. Titled “Methodologies Supportive of Sustainable Development in Agriculture and Natural Resources Management: Selected Cases in Southeast Asia,” the book was edited by Dr. Inocencio Buot, Jr. of UPLB and launched on 24 February 2021.

Academic excellence and innovation in agriculture and related sciences has been accorded recognition through the SEARCA Regional Professorial Chair award given to outstanding Southeast Asian experts in the academe (Annex 10). Three new awards were granted in FY 2020/2021 to professors in the field of agricultural technology in line with SEARCA's thrust of leveraging technology and information in its projects. Prof. Ir. Dr. Khaswar Syamsu of IPB University will lecture about “Increased Bioethanol Production Directly from Sweet Sorghum Bagasse Using Mold and Yeast”. Prof. Ir. Ts. Dr. Mohamed Thariq Bin Haji Hameed Sultan from UPM will discuss “Structural Application from Pineapple Leaf Fiber.” Assoc. Prof. Ir. Dr. Zool Hilmi Ismail from Universiti Teknologi Malaysia will give a seminar on “Deep Learning Sensor Fusion for Plant Water Stress Assessment in Tropical Countries.”

Seven SEARCA Regional Professorial Chair awardees completed their term in FY 2020/2021. They were recognized for their innovations to enhance agricultural production, which they shared in their public professorial chair lectures. Dr. Nazmi Mat Nawi of UPM discussed “Agricultural Mechanization in Tropical Country: Case Study of Malaysia” on 10 June 2020 at the Annual Agricultural Engineering Lecture Series of UB held in partnership with SEARCA and

UPM. Dr. Anchasa Pramuanjaroenkij of KU discussed “Effects of Global Warming on Agricultural Food Production in Thailand” on 19 August 2020 at the KU Chalermphrakiat Sakon Nakhon Province campus. Dr. Virgilio Julius P. Manzano, Jr. of Mariano Marcos State University (MMSU) discussed “Mainstreaming and Harnessing Precision Farming for Sustainable and Resilient Philippine Agriculture” on 13 February 2021 during MMSU’s 2021 Virtual Research Congress. Dr. Felix M. Salas of VSU discussed “Innovative Liquid Nutrient Formulations for Improved Yield and Chemical Characteristics of Horticultural Crops under an Aggregate Hydroponic System” on 26 February 2021 at his home institution. Dr. Norsida Man of UPM discussed “The Role of ICT-driven Tools and Technologies to Spread Innovation for Adaptation to Climate Change.” Dr. Shuhaimi Mustafa of UPM discussed “Rapid DNA-based Analytical Techniques to

Verify the Authenticity of Halal Food Products” on 18 March 2021 during the Extension Talk 9.0 (EXTENT9.0) Special Edition – International Webinar on Agriculture and Food. Dr. Nathaniel R. Alibuyog of MMSU discussed “Harnessing GIS and Remote Sensing Technologies Towards Improved Water Governance and Agricultural Productivity.”

Still in line with its thrust of leveraging technology and information in its projects, SEARCA published the studies of two professorial chair grantees: “Novel Diagnostics for Transboundary Animal Diseases” by Dr. Clarissa Domingo and “Microbes for Sustainable Agriculture: Isolation and Identification of Beneficial Soil and Plant-Associated Microorganisms” by Dr. Thomas Edison dela Cruz.

SEARCA also continued to support the participation of its scholars as paper presenters in international conferences, publication of their articles in scientific journals, and attendance to training and workshops in line with SEARCA’s priority areas (Annex 11).

Moreover, SEARCA encouraged its scholars as well as its staff to publish the findings of their research in scientific journals and other technical publications (Annex 12).



Dr. Felix M. Salas of Visayas State University, Philippines was one of the SEARCA Professorial Chair grantees who delivered their public lectures during the fiscal year.

## PATHS TOWARD TRANSFORMATION

### ◆ Training for Development

#### SEARCA Online Learning and Virtual Engagement (SOLVE) Webinars

With the lockdown due to the novel coronavirus (COVID-19), SEARCA looked for ways to remain connected to its stakeholders. The Center used technology-mediated platforms for interaction (e.g., Zoom, Facebook Live) in addition to its traditional modalities of engagement. In April 2020, it launched its SEARCA Online Learning and Virtual Engagement (SOLVE) Webinar Series which highlights specific concrete and practical actions being implemented on the ground to share and promote widely these options in the face of current and future unanticipated challenges.

In FY 2020/2021, SEARCA conducted 24 SOLVE webinars with highly relevant topics along ATTAIN thrusts, including food and nutrition security and EcoHealth/One Health (Annex 13). These webinars featured speakers who are experts and well-respected in their respective fields. Using the SOLVE platform, the 24 webinars had a total of 13,849 attendees (3,368 from Zoom and 10,481 from Facebook Live) from countries in Asia, Africa, Middle East, North America, South America, and Europe, as well as from Australia.

#### Collaborative Training Programs

During the fiscal year, SEARCA implemented several learning events and training programs under collaborative arrangements (Annex 14).

E-training on School and Home Gardens cum Biodiversity Enhancement for Busuanga Island – SEARCA implemented this e-training in partnership with the University of the Philippines Los Baños (UPLB), Department of Education (DepEd)-Busuanga Island, and Kansas State University (KSU) from 16 July to 24 September 2020. Building on the successes of



**SOLVE Barriers for Women in Agriculture:  
Inclusive Opportunities  
to Support Agri-Entrepreneurship**

**Special SEARCA SOLVE Webinar**

19 March 2021 (Friday) | 3:00 p.m. (GMT +08:00)

**Dr. Alessandro Goglio**  
Head  
Partner Countries Unit  
Directorate for Employment,  
Labour and Social Affairs, OECD

**Dr. Nerlita Manalili**  
Managing Director  
Nexus Agribusiness Solutions  
and Consultant, OECD

**Ms. Catherine  
Brillantes-Turvill**  
Owner  
Nurture Wellness Village  
and Nurture Pharmacy

**Ms. Chen  
Reyes-Mencias, EnP**  
Tourism Planning  
Consultant

**JOIN US VIA:**  
Zoom: <http://bit.ly/solvebarriers> | FB: <https://fb.com/seameo.searca>

Photo by: Khia Zar Man

SEARCA tackled women in development in one of its SOLVE webinars.

the School-plus-Home Gardens Project (S+HGP), it is a first step in scaling up the S+HGP in Busuanga Island, with an additional component of biodiversity enhancement given the island's unique environmental riches. The e-training course aimed to serve as a platform to educate, exchange knowledge and experiences, and create awareness that shall strengthen the initiation of a school-plus-home gardens project in Coron and Busuanga in Palawan, Philippines, in support of the DepEd's Gulayan sa Paaralan program. For this learning event, 69 participants from seven selected pilot schools from the S+HGP in the island include Claudio Sandoval South Elementary School (ES), Decalachao ES and National High School (NHS), Malbato ES, Salvacion ES and NHS, and Bulalacao Integrated School.

Levelling-Up Philippine Higher Education Institutions in Agriculture, Fisheries, and Natural Resources (LevelUPHEI AFAR) – This project which aims to build up the capacities of 633 faculty members and staff of SUC-ACAP members, is supported by CHED with funding amounting to PHP100,483,350.00. An inception meeting among representatives of the SEARCA and the SUC-ACAP was held on 3 December 2020 via Zoom. Criteria and guidelines for the selection of grantee-participants and the customization of training topics for the short-term training programs were established. The Visayas State University (VSU), whose President concurrently serves as SUC-ACAP President, spearheaded the training needs assessment (TNA) among the SUC-ACAP members. Online enlistments for the various capacity building programs are now ongoing.

Leadership Development Program for Higher Education Institutions (LDP-HEIs) in the Philippines – This was implemented with The Head Foundation (THF) on 21 April to 7 June 2021 via the SOLVE platform, with coaching calls on 1-30 July 2021. This program was participated in by 29 HEI leaders from 11 SUC-ACAP members. The program aimed to raise the standard of Philippine HEIs and drive them towards enhanced relevance and competitiveness in the 21st century by building on their leadership and management capacities within the context of global challenges asserted by the UN's Sustainable Development Goals. The participants were challenged to "Up Your Game!," with respect to four key areas: Leadership, Graduate Preparedness, Technology and Faculty Readiness. Each of these areas requires new visions, strategies, goals, and policies for leaders to take to their faculty and other staff and re-orientate them to higher levels of outcomes. The 11 re-entry action plans of the groups of participants focused on the following: delivery of teaching and learning in the new normal and post COVID-19 era; flexible learning modalities (adoption, providing quality teaching and learning outcomes, enhancing TPACK level of faculty members); improving infrastructure for online classes; strengthening university resiliency to cope with future challenges; curriculum re-alignment to meet ASEAN standards; internationalization of programs and linkages; creating smart research capability building program for the faculty in the new normal; and implementation of face-to-face and online classes.

GIZ-SEARCA ASEAN Climate Leadership Program: The Role of Land Management for Food Security and

## PATHS TOWARD TRANSFORMATION

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Climate Change –This was implemented with Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH-Jakarta, ASEAN Secretariat, and ASEAN Climate Resilience Network. It was funded by the GIZ under the Climate-Smart Land Use (CSLU) Project in ASEAN, which is financed by the Federal Ministry for Economic Cooperation and Development (BMZ). The program was conducted from 6 October-10 December 2020 via the SOLVE platform. The ACLP aimed to strengthen key leadership skills in initiating and facilitating change processes and collective cross-sectoral transformative action in climate-smart land use. It was basically designed as a Leadership Journey based on a peer-to-peer exchange, facilitated by experienced coaches in leadership and change theory and experts on land use and climate change. The 27 participants represented government and non-governmental organizations, civil society organizations, the academe, as well as the private sector from Brunei Darussalam, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam. They proposed Change Projects, the major output for the program, to their peers, coaches and mentors, and their respective supervisors who were invited to attend the final presentations. The four Change Projects focused on the following “Urban Agriculture for the Youth,” “Women Climate Warriors,” “Nature and Private Sector Investments,” and “Climate-Resilient Agricultural Village.”

Training-Workshop on Modeling for Higher Education Institutions- Application of GIS-based and Agent Modelling Approach: Agri-Forestry Technology for Ensuring Agricultural Resilience (GAMA-AFTER) – Implemented with UPLB and the French Embassy in the

Philippines, this learning event was conducted using the SOLVE platform. This training-workshop began with a three-part webinar series held on 22, 24, and 26 March 2021 organized by SEARCA in partnership with the French National Research Institute for Sustainable Development (IRD) and the French Embassy-Manila. Experts from IRD and its partner institutions served as Resource Persons. The webinars had more than 800 online attendees including 18 GAMA-AFTER training-workshop participants from five participating national HEIs. The succeeding sessions were held from 8 April to 7 May 2021. Participants developed project proposals that involved a diverse set of agriculture- and forestry-related issues, namely, forest depletion, propagation of pili trees, germplasm research on breadfruit, coconut industry resilience, agar production, and epidemiology of the African swine fever.

IFS-SEARCA Mentorship Program for Advanced Grants Mentoring Workshop – Organized and implemented as part of the project “IFS-SEARCA Mentorship Program for Advanced Grants for Research,” this workshop was a collaboration with the International Foundation for Science (IFS). It was held on 15-21 June 2021 with 24 researchers from Indonesia, Philippines, and Vietnam as participants. These researchers were grant applicants who passed the pre-screening and have been recommended for continued consideration for funding support. The workshop aimed to improve the quality and effectiveness of research on agriculture and food systems by enhancing the capacity of early-career scientists.

Virtual-Training Workshop on Good Agricultural Practices (GAP) for Emerging Agricultural Commodities Amid Covid-19 Pandemic – SEARCA conducted the virtual-training workshop on 27-28 August 2020, in cooperation with the Philippine Department of Agriculture-Bureau of Plant Industry (DA-BPI). The training-workshop was driven by the need to help farmers rethink and redesign their current farming methods and help them establish a set of practices in their farming operations for a more sustainable food system, enhanced farm productivity, and increased market competitiveness, thereby contributing to the overall local food security. An understanding of the approach, principles, and standards of GAP and benchmarking local GAP schemes against globally recognized guidelines are essential so that stakeholders, particularly smallholder farmers and farming families, are properly guided in implementing GAP standards in their respective farm production. Experts on GAP composed of representatives from the DA, DA-Agricultural Training Institute (ATI), Bureau of Plant Industry (BPI), academe, and private sector presented their technical know-how. The two-day training-workshop was participated in by local government units, development partners, farmers, and farming families in the Philippines; individuals from other countries; and international organizations.

## ◆ Knowledge Events

SEARCA convened the 18 May 2021 of the Food Systems Dialogue titled “Breaking Silos: Transforming Agricultural Education and Research toward Sustainable Food Systems in Southeast Asia.” The

outputs from this dialogue were used in the first-ever United Nations Food Systems Summit (UNFSS) held in New York in September 2021. The milestone summit drew on the input of people from all over the world to identify sustainable solutions for the future of food. SEARCA’s independent dialogue brought together 56 participants from the academe, government, agro-industry, farmers, and the youth, who gave an array of perspectives needed in the next decade to transform education and research for sustainable food systems in Southeast Asia. Also discussed during the dialogue were innovative pedagogies and methodologies for more effective dissemination of research results to a wider audience with the end view of inspiring transformations. SEARCA gathered from the Dialogue a suite of recommendations on governance strategies and policies as well as strategic alliances needed to ensure a more holistic approach to research and higher education on food systems.

On 28 October 2020, SEARCA convened the “Stakeholders Forum: A Forward-looking and Transformative Agricultural and Rural Development in Southeast Asia,” which focused on the experiences, challenges, best practices, and directions and opportunities to strategically advance agriculture and rural development to elevate the quality of life of farmers and farming families in the Southeast Asian region. The forum, implemented through the SOLVE platform, had two plenary sessions and four parallel sessions. The forum’s 731 participants attended the two plenary sessions (66% female and 34% male) with 19 percent and 15 percent coming from the age range of 41-50 years old and 18-34 years old, respectively. They joined via Zoom (293) and Facebook (438).

## PATHS TOWARD TRANSFORMATION



In May 2021, SEARCA hosted a Food Systems Dialogue to discuss the transformations needed in education and research for higher education institutions in the region to establish the future direction for food systems and accelerate collective action to this end.

Participants in the plenary sessions came from the academe (42%), government (39%), donors (9%), industry (8%), and farmers (2%). They tuned in from 21 countries across Southeast Asia, Asia-Pacific, Europe, and North America. The four parallel sessions were attended by 360 participants.

The forum featured ways on how the academic sector sustains the interest of the youth to actively engage in agriculture, such as the entrepreneurship incubation program at the Universiti Putra Malaysia (UPM). The

speakers further shared on how the government and industry sectors develop inclusive and sustainable agricultural ecosystems to help farmer communities and small and medium enterprises, and innovative agri-financing approaches. Technical interventions to commodities consumed by low-income households, which contributed to food and nutrition security, were discussed. The Philippine Government's approach to research and innovation in agriculture, which include projects that provide knowledge, technical support, decision support, and tools to help the local community assess their options, was presented. The forum speakers also gave some points on how to reshape agriculture and development in HEIs in a

time of pandemic in Southeast Asia. They called on pushing for innovation and expansion in agriculture education; contributing toward economic development that is sustainable, inclusive, environment-friendly, and resilient to current and future pandemics and other anticipated disruptions; strengthening multi and interdisciplinary studies, contextualizing specific research efforts with larger societal problems; and shortening the gap between research productivity and its translation to economic development. Continued investment and support for the youth to enable them to

find their role, relevance, and motivation in community and nation-building through modern agriculture was also emphasized. With the COVID-19 crisis, the world was awakened to the need for resilience in terms of health. Agricultural practices play a key role in the emergence of the disease in humans, such that strategies and recommendations in developing and managing food and agricultural practices are needed to prevent the emergence of epidemics.

On 18 February 2021, SEARCA held the forum on “Jurisdictional Sustainability Approach for Climate Change Initiatives in the Forestry and Natural Resources Sector” under the SOLVE platform. The forum was implemented in collaboration with the Food and Agriculture Organization of the United Nations (FAO), Department of Environment and Natural Resources -Forest Management Bureau (DENR-FMB), and DENR-Ecosystems Research and Development Bureau (ERDB). It was held in response to the need to discuss a holistic approach and collaborative strategy in mitigating the effects of climate change for sustainable growth and development. It also served as a venue for SEARCA to discuss the baseline assessment for jurisdictional sustainability in Palawan, Philippines, which was developed by the SEARCA team under the FAO-funded project titled “Developing on an operational example of a jurisdictional-level platform for Palawan, Philippines.” It had 541 online attendees from Cambodia, Denmark, Dubai, Indonesia, Lao PDR, Malaysia, Philippines, Thailand, and Vietnam.

On 27 April 2021, SEARCA implemented the “Regional Policy Forum on Developing Public Policies for Family Farming: Reaching Out to the Grassroots through Participatory Policy Making.” The forum highlighted the need of engaging stakeholders and implementing participatory processes in policymaking to support and strengthen family farming in the Southeast Asian region. Conducted as part of the United Nations Decade of Family Farming (UNDF), this event was organized in partnership with the Asian Farmers’ Association for Sustainable Rural Development (AFA) and the Food and Agriculture Organization of the United Nations (FAO). Discussions emphasized that successful public policy processes must be inclusive, focused on agricultural transition and responsive to the current issues in the agricultural sector to ensure the wellbeing of farming families. Based on the discussions, key points to consider to successfully move forward include strengthening capacities of family farmers, leveraging on existing mechanisms, and improving trust and representation in policy development activities. The forum had 35 participants from the academe, research and development institutions, government agencies, farmers’ and civil society organizations, and family farming groups from the following countries: Cambodia, Indonesia, Kyrgyzstan, Lao PDR, Myanmar, Nepal, Philippines, Thailand, and Vietnam.

## PATHS TOWARD TRANSFORMATION

### ATTAIN OUTCOME 2

#### ENABLING POLICIES AND REGULATORY FRAMEWORKS SUPPORTING ARD

SEARCA carried out 14 high-impact projects in support of policy and program advisory and research for ARD that are of national and regional relevance that will lead to transformational change (Annex 15). SEARCA also supported the development of knowledge platforms intended to create an enabling environment for agricultural innovation.

#### ◆ Policy and Program Advisory

High-impact regional projects include the International Fund for Agricultural Development (IFAD)-funded Agricultural Transformation and Market Integration in the ASEAN Region: Responding to Food Security and Inclusiveness Concerns or ATMI-ASEAN, which is co-implemented by the International Food Policy Research Institute (IFPRI)-South Asia. The ATMI-ASEAN project targets all ASEAN Member States (AMS) but with focus on Cambodia, Lao PDR, Myanmar, the Philippines, and Vietnam. The project aims to strengthen the capacity of the targeted AMS to develop policies and programs supporting the adjustment of the smallholder farm sector to changes in sub-regional agricultural and food markets and enhance the cooperation among the AMS in food security and agricultural development (through the preparation of strategic programs and measures in



Proceedings of policy roundtables conducted by SEARCA were published during the year.

the areas of R&D, food safety and quality standards, and investments in food and agri-based industries). The project has completed four policy studies and a training-workshop on national roadmap development (first batch). Technical assistance programs as well as policy roundtables and consultation meetings have been initiated/coordinated at the national and regional levels.

Another project is the Case Study Researches on Public Policies on Family Farming in Asia and the Pacific, a collaboration with IFAD and the Food and Agriculture Organization of the United Nations (FAO). As SEARCA commits to accelerate transformation to elevate the quality of life of agricultural families, the Center embarked on the analysis of selected public policies in the Philippines, Indonesia, and Vietnam to develop

country case studies and a background paper. These will be used as inputs for the development of a modular training program (MTP) on public policy cycles for family farming to support the implementation of the United Nations Decade of Family Farming (UNFFF) 2019-2028 Global Action Plan, with focus on Pillar 1: Develop an enabling policy environment to strengthen family farming. This MTP will serve as a tool for countries to develop public policies in support of family farming.

The IFAD-funded Rural Regional Transformation: Pathways, Policy Sequencing, and Development Outcomes in China, the Philippines, and Vietnam (and implemented by the Institute of Geographic Sciences and Natural Resources Research or IGSNRR) is a collaborative policy research that aims to provide evidence-based policy formulation and planning and as cross-country analysis of different stages of rural development and transformation in China, Vietnam, and the Philippines. For the fiscal year, the Philippine component of the project conducted a series of consultation meetings with relevant local stakeholders to gather insights on the current state of rural transformation in the country and identify the key factors and policies that drive this transformation. These will be used as inputs to the development of the three technical papers that will discuss typologies of rural transformation in the Philippines, impacts of institution, policy, and investment (IPI) on rural transformation in the Philippines, and impacts of major Rural Regional Transformation (RRT) drivers (i.e., IPIs) on rural development outcomes.

The Implications of ASEAN Economic Community (AEC) and Trade and Investments on Regional Food Security (funded by SEARCA and the University Consortium, with University Gadjah Mada) generally aimed to analyze the potential impacts of AEC on existing trade agreements, flow of investments, and related commitments among ASEAN member countries and across existing ASEAN Free Trade Agreements (FTAs), as well as their implications on food security in the region. The preliminary results of this study were presented at the 2nd ATMI-ASEAN Regional Project Steering Committee (RPSC) Meeting on 28 January 2021. The final report is being completed.

Four of the preceding projects, both at the national and regional levels, have farmer-centric activities/components that link farmers to modern networks and markets. These have also facilitated opportunities for engagement with farmers, farming families, and farmer groups and provided them with the time and space for learning. The seminars and training activities of the calamansi project, for example, have helped the farmers understand and carry out good practices for addressing concerns on pest and diseases, among others. Four farmer groups and nine processors have been engaged in the calamansi project.

Committed to elevating the lives of farmers and farming families, the center partnered with CropLife Asia in conducting an independent dialogue titled Transforming Pathways: Working with Farmers in the Agri-food Systems as part of this year's United Nations Food Systems Summit (UNFSS). Around 40 farmers from Indonesia, the Philippines, Thailand, and

## PATHS TOWARD TRANSFORMATION

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Vietnam joined experts from the academe, industry, and government to gather insights on the influencing conditions that should be in place to foster change in the farming sector.

In its efforts to implement value-driven programs, projects, and activities upholding the SEARCA brand, RTLD has developed ATTAIN-aligned proposals which have been submitted, accepted, and have been/are being implemented for internal and external stakeholders. One of these is the Development of ASEAN guidelines for promoting the utilization of digital technologies for the ASEAN food and agriculture sector (in collaboration with ERIA and ASEAN Secretariat) wherein the final draft of the guidelines has been submitted to the ASEAN Secretariat. In relation to this, two regional knowledge sharing workshops were conducted with ASEAN member states to discuss and level-off on the applications, trends, and development of digital technologies and to gather their inputs on the development of the guidelines for the region. Another new project is Promoting climate-smart land use (CSLU) through ASEAN policy documents and regional events (funded by GIZ), which aims to strengthen the coordination role of ASEAN in making contributions to international and national climate-policy processes for climate-smart land use in agriculture and forestry. Under this project, SEARCA will be developing the ASEAN Guidelines on Climate Smart Agriculture (Volume 3).

### ◆ Research for Development

#### Customized and scaled proven models and programs for national and regional adoption

SEARCA has undertaken 10 high-impact collaborative projects of national and regional relevance. Proven models, programs, products, and services, modified for context, have started to be scaled for adoption by the wider national and regional ecosystems to ensure that resulting benefits will be extensively shared. Nationally, these include the project on effective models of ARD, focused on Climate Resilient Production Systems and Strengthened Market Linkages (in collaboration with the Provincial Government of Quezon) and the School-plus-Home Gardens Project (S+HGP), integrating conservation agriculture in sustainable agriculture. The former aims to support the development of the program for the coconut growing areas in the Province of Quezon, starting with the conduct of scoping activities to ensure that initiatives to be crafted and implemented would be responsive to the needs of the province. The latter aims to improve the nutritional condition and dietary habits of school-aged children by increasing production of locally adapted vegetables through school gardening and consequently contribute to the community's food and nutrition security. Scaling of this project kicked-off with the E-Training on School and Home Gardens cum Biodiversity Enhancement (SHGBE) for Busuanga Island, Palawan (with funding and collaboration from Kansas State University and implemented in tandem with UPLB), participated in by school administrators and teachers from seven schools, local government representatives, and the

private sector. Efforts have also been underway for scaling this project and implementing the training program in Quezon Province in cooperation with the Pilipinas Shell Foundation, Inc. (PSFI).

An initiative that also resulted from the project on effective models of ARD was Upgrading the Calamansi Value Chain towards Improving the Calamansi Industry in Oriental Mindoro (funded by the Philippines Department of Agriculture-Bureau of Agricultural Research). Research on calamansi off season production, pest and disease management, market and value chain upgrading studies were undertaken. Seminars, training, and fora were likewise conducted on utilization of waste products from calamansi, business opportunities for calamansi-based products,



A ceremonial turnover of the techno-demo-learning farm for calamansi research in the Mindoro State University (MinSU) was held on 21 June 2021.

integrated pest management, and good agricultural and manufacturing practices. As a sustainability mechanism, a techno-demonstration-learning farm for calamansi research was established in the Mindoro State University, the local partner academic institution.

These projects substantially demonstrated academe-industry-government (AIG) interconnectivity. The University of the Philippines Los Banos (UPLB) was a partner in these initiatives. However, to ensure greater sustainability for the project in the area, a local university was tapped as partner. A local university will also be invited as partner when the scaling of the project on coconut growth areas goes into full implementation.

Industry has shown keen interest in taking part in these undertakings. The tourism industry in Busuanga, though not yet a formal partner, actively participated in the SHGBE training and pledged support to the S+HGP during a scoping workshop conducted a few months earlier. The Pilipinas Shell Foundation, Inc. (PSFI) has likewise expressed willingness to support the project when scaled to Quezon Province.

Government has been an able partner in these initiatives as well. The Provincial Government of Quezon has worked closely with SEARCA in the scoping activities towards crafting initiatives on the ground that are expected to lead to resilient coconut production systems and strengthened market linkages for their coconut and coconut-based products. Likewise, the local governments of the two municipalities in Busuanga Island were partners in the SHGBE Training under the S+HGP. In the calamansi project, the

## PATHS TOWARD TRANSFORMATION

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Provincial Government of Oriental Mindoro, through its Provincial Agriculture Office, and the local governments of several municipalities were active partners. Various Philippine government agencies, i.e., Department of Science and Technology, DA-Bureau of Plant Industry (DA-BPI), also actively supported the project.

### **IFS-SEARCA Mentorship Program on Advanced Grants for Research**

To expand the reach of SEARCA towards meeting its mandate, it has partnered with the International Foundation for Science (IFS) on a Mentorship Program on Advanced Grants for research. Promising researchers and scientists will benefit from translating research and scientific outputs into knowledge that could be applied to promote development, build capacities of researchers in developing research proposals and conducting research, and contribute to the body of knowledge on the identified research areas. The program will support Southeast Asian nationals who are enrolled in a PhD degree program or have recently completed a Master's or PhD degree within the five years from the time of the call, and with limited research start-up funds. It has received over 50 applications and had a pre-inception workshop for over 20 grantees deemed eligible as participants to provide them the knowledge and tools to improve their proposals prior to the final selection. The IFS-SEARCA Mentorship Program for Advanced Grants Mentoring Workshop was conducted on 15-21 June 2021.

## ◆ **Development of Knowledge Platforms**

### **AgPractices & Domains Platform**

An accurate, highly credible, sound, timely, and reliable source of information that will fuel future research activities and various knowledge-sharing initiatives to accelerate agricultural transformation through agricultural innovation is necessary. The AgPractices & Domains Platform aims accelerate agricultural innovations by creating opportunities for knowledge sharing and learning with various stakeholders. SEARCA, in partnership with the University of Southern Queensland (USQ) and UPLB, has begun implementing a project to demonstrate the potential of data and modeling platforms to build capacity for agriculture researchers in using data from different sources and to access modeling and data analytic tools. This project will then focus on the development of a tool called AgPractices & Domains Platform, which it will use to improve and build the capacity of agriculture researchers in Myanmar and the Philippines in using data from different sources to target integrated pest and disease management options.

### **Agriculture, Forestry, and Natural Resources (AFNR) Knowledge Platform**

In its commitment to further engage the youth in various initiatives supporting agricultural and rural development, the AFNR knowledge platform has been used for youth engagement. Together with the University

of the Philippines Rural High School, SEARCA has organized five agricultural biotechnology-related online learning for senior high school students. The sessions reached over 18,000 views and reaching more than 24,000 people on Facebook. Majority of the attendees came from the Philippines and other participants were from Malaysia, Thailand, Singapore, Myanmar, Cambodia, Israel, Indonesia, Vietnam, Canada, and the United States.

The AFNR knowledge platform became an opportunity to encourage public discussion on agricultural biotechnology. As part of this year's National Biotechnology Week, SEARCA, together with its partners (Biotechnology Coalition of the Philippines, CropLife Asia, Program for Biosafety Systems, International Rice Research Institute, Philippine Rice Research Institute, Department of Agriculture-Biotechnology Program Office, UPLB-Institute of Plant Breeding, and the International Service for the Acquisition of Agri-biotech Applications), organized a technical forum titled Greener Greens. This aimed to provide a platform for the public to have a better understanding of biotechnology and its potential in mitigating pressing environmental issues. The forum has reached over a thousand participants, mostly teachers and students from the Philippines but also reaching beyond Southeast Asia.

## PATHS TOWARD TRANSFORMATION

### ATTAIN OUTCOME 3

#### WIDER ACCESS TO INNOVATIVE PRODUCTS AND SERVICES AND BUSINESS MODELS FOR INCREASED PRODUCTIVITY AND INCOME

With a sharpened focus on emerging innovation for growth, SEARCA collaborated with higher education institutions on various agricultural innovation projects to link innovation and technologies to farming communities and markets. SEARCA also partnered with key institutions and engaged with farmers and students to develop and promote next-step agri-technologies. Its solid track record in project development and management enabled SEARCA to embark on projects that contribute to modernizing agriculture.

#### ◆ Open Innovation and Agri-Incubation

##### Agri-incubation Projects

The SEARCA innovEIGhts model for open collaboration seeks to support higher education institutions as they create, nurture, and usher agribusiness startups out of incubation to take flight into the world of commercialization and societal value. By enabling institutions into their formal or informal role as incubators of agribusiness startups, SEARCA fuels its 11th FYP to attain Agriculture 4.0, a modernized world of agriculture and rural development technologies, processes, and dynamics in Southeast Asia.

In FY 2020/21, SEARCA supported the incubation projects of Laguna State Polytechnic University (LSPU), Batangas State University (BatStateU), and Tarlac Agriculture University (TAU). LSPU facilitated registration tests for commercialization of agri-food products from fruit, vegetables, fish, and mushrooms. BatStateU incubated agri-startups, including a mobile-based ecommerce system connecting farmers and buyers. Based on dialogues with local cooperatives, the university also organized agri-challenges for students to solve. TAU enhanced the marketing competitiveness of its products: vegetables grown through hydroponic systems in smart greenhouses; and furniture and handicrafts from engineered bamboo.

##### Grants for Research towards Agriculture Innovation Solutions (GRAINS)

Agribusiness transforms agricultural commodities and technologies into added livelihood and income opportunities for farmers, fishers and rural communities. SEARCA created GRAINS to support institutions working on technologies and systems that can uplift farming-related enterprises and commercial activities along the value chain into viable agribusiness models.

GRAINS enabled higher education institutions (HEIs) across the country to go beyond their roles as technology generators by engaging agribusiness stakeholders in crop, livestock, aquatic and forestry sectors. The Central Mindanao University (CMU) worked with the swine and poultry industries to assess the use of tunnel vent technology. The Cebu Technological University (CTU) explored the creation



SEARCA provided an innovation grant to a team of researchers who are working on turning shrimp waste into bioplastic.

of a community-based enterprise producing food out of shrimp waste. The University of the Philippines Los Baños (UPLB) is pursuing three projects under GRAINS. This includes the first phase of conceptualizing Halal Industry and One Health (H2O) ecosystem as an emerging innovation for growth and development, or the establishment of the Halal Science and Technology (S&T) Knowledge Center for Southeast Asia in the Philippines; crafting of a Technology Transfer and Business Development Manual and Capacity Building; conducting a study on household strains, stressors, and resilience among farmer families in selected barangays in Laguna amid Covid-19 pandemic, using a gendered perspective. In collaboration with HEIs, SEARCA GRAINS linked innovation and technologies to farming communities and markets.

### Technology Transfer

SEARCA provided farmers and farming families wider access to innovative products and services through Technology Transfer and Agri-Incubation.

To facilitate the adoption and transfer of crucial agri-technological innovations, SEARCA is has begun crafting the SEARCA Intellectual Property and Tech Transfer Policy and establishing the Southeast Asian Agri-Tech Transfer Hub.

During the fiscal year, SEARCA partnered with key Academe-Industry-Government (AIG) institutions and engaged with local farmers and students in developing and promoting next step agri-technologies such as the Digital Agricultural Exchange Platform (AgriEX), Oggun Tractor, Innovation Olympics, and other farm-level agri-tech transfer interventions.

### Project Development, Monitoring, and Evaluation

The status of ARD in Southeast Asia shows the need for more holistic and integrative ARD-related projects. SEARCA aims to lead in the development and implement value-driven and innovative programs and projects on ARD in Southeast Asia.

In the first year of its 11th FYP, SEARCA implemented a number of externally funded projects on value chain analysis, improving crop production, policy and roadmap formulation, and impact assessment among others. These projects are implemented involving various sectors in the government, industry, academe, and other development organizations. They benefitted different sectors, farmers, and farming communities in the country. In terms of policy, these projects have contributed to the development of long-term national plans on industrializing and modernizing agriculture and fisheries and enhancing the higher education program on agriculture of the Philippines. Several policy briefs, monographs, and learning events have been generated from these projects.

## PATHS TOWARD TRANSFORMATION

### ATTAIN OUTCOME 4

#### INCREASED LEVEL OF INVESTMENT IN THE ARD SECTOR

Through its core programs, SEARCA also invested in various grants to advance agricultural innovation, as follows: 153 new and ongoing scholarships, three new regional professorial chair grants, seven Grants for Research towards Agriculture Innovation Solutions (GRAINS), and three agri-incubation grants.

In addition to these grants, SEARCA also managed 24 ongoing Seed Fund for Research and Training (SFRT) projects (Annex 16). The SFRT provides start-up funds of up to a maximum of USD15,000.00 to researchers and scientists who can make significant contributions to the development of the region but lack the funds to carry out their projects. It aims to build capacities of researchers to develop research proposals and conduct the research, mindful of inherent technical, financial, and administrative responsibilities of such an undertaking, and to expand SEARCA's reach in terms of research, capacity building, and contribution to the body of knowledge on agriculture in the region.

FY 2020/2021 saw the continuation of five research grants awarded in 2019-2020 as well as a total of eight other grants from batches 2017-2019, the conduct of which have been adversely impacted by the COVID-19 pandemic. Two fora were conducted, one was an inception workshop for the 2019-2020 grantees and the

second a concluding workshop for grantees from 2017-2019. Topics for all these grantees covered climate change and sustainable farming systems, inclusive and sustainable agricultural and rural development, biodiversity, engagement with youth in agriculture, and agricultural trade, among others. The SFRT is open to scientists, researchers, and development practitioners in Southeast Asia though grantees for the above SFRT cycles mostly were from Indonesia, Philippines, and Vietnam.

Moreover, SEARCA awarded seven travel grants (Annex 17) that funded registration fees for online conferences to enable the participation of Southeast Asian researchers. A grant of up to a maximum of US\$1,200 is provided to each qualified agriculture and agriculture-related professional, social scientist, or graduate student in Southeast Asia. Among the travel grantees in FY 2020/2021 were six Southeast Asians who attended the 3rd Asian Short Course on Agribiotechnology, Biosafety Regulation, and Communication (ASCA) event.

## ATTAIN OUTCOME 5

### FOOD AND NUTRITION SECURITY ENSURING WELL-BEING IN AN EVOLVING LIFESTYLE

SEARCA conducted projects to improve food production and transform mindsets on food consumption that promote well-being in terms of food and nutrition security. One of the projects implemented by SEARCA that is directly linked to food and nutrition security is the School-plus-Home Gardens projects. This aims to enhance knowledge, encourage the continuous production and consumption of indigenous vegetables towards improved nutrition of schoolchildren. Research has shown the significant linkages between childhood nutrition and health, and development and productivity in adulthood and that investments in child and adolescent nutrition have high human and economic returns. It is therefore critical that the value of proper nutrition and healthy diets is ingrained from a young age through school-based nutrition programs such as school gardening. Benefits from school gardens can be further optimized by the establishment of vegetable gardens in the homes and, in the process, emphasize to parents the value of healthy diets. Home gardens will help ensure that children will have nutritious food beyond the school.

Another project, Upgrading the Calamansi Value Chain towards Improving the Calamansi Industry in Oriental Mindoro, though looking at the production of calamansi, is also geared towards sustainable livelihoods and improved incomes, which can help farmers and their

families have better access to nutritious food and healthy diets. The Agricultural Transformation and Market Integration in the ASEAN Region: Responding to Food Security and Inclusiveness Concerns (ATMI) likewise aims to enhance the cooperation among the AMS in food security and agricultural development through strengthening the capacity of the targeted AMS to develop policies and programs to support the adjustment of the smallholder farm sector to changes in sub-regional agricultural and food markets.

SFRT grant projects and papers presented in fora through the SEARCA travel grants have also touched on food and nutrition security (FNS) and/or livelihoods and incomes towards contributing to FNS. Among these are the following researches: “Understanding Relationships between Providing Ecosystem Services of Forest and Rural Livelihoods;” “A Study on Value Chain of Palm Sugar Products and Income of Poor Khmer Ethnic Group in Chau Lang Commune;” “Developing Agricultural Cooperative Model for Supporting Subak-based Agribusiness Development within the UNESCO World Heritage Site, Bali-Indonesia;” “Food and Nutrition Security of Poor Households in Tuong Duong District, Nghe An Province, Vietnam;” and “Social Perception of the Organics Industry in Vietnam.”

Transforming mindsets on food consumption is an important aspect towards food and nutrition security. Biotechnology, for example, has been a divisive topic in many fora. However, biotechnology has been shown to greatly increase quality food production. To change long-held views which may not be based on evidence, communication of the appropriate message to the public is needed. Webinars and fora on this and related topics have been geared towards this end.

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### STRATEGIC IMPLEMENTATION OF ATTAIN

In ensuring a winning strategy and a successful implementation of its 11th FYP, SEARCA held a series of workshops to craft the strategic implementation map of ATTAIN. The map is envisaged to help better visualize ATTAIN, create more focus, encourage strategy discussion, and allow easier reviews. Four performance areas were identified, namely, organizational health, operational excellence, linkages, and farmers and farming families. Measures of performance under each area were also indicated.

#### ◆ Organizational Health and Operational Excellence

##### Policies and Guidelines

During the first year of the 11th FYP, the Center reviewed the existing policies and procedures and developed new ones to ensure organization's ability to function effectively in implementing ATTAIN, integrate staff well-being in the Center's objectives, appropriately cope with the changes brought by the new FYP and revised organizational structure. New policies and guidelines in promoting organizational health and operational excellence were developed which included:

- Staff Promotion Policy
- Communication Strategy
- Publications Policy, Guidelines, and Procedures
- Partnerships Framework and Guidelines
- Project Management Guidelines

##### Applied Knowledge Resources

In FY 2020/21, SEARCA promoted its 11th FYP across its three knowledge service lines, namely, publications, websites and social media, and library and archives.

SEARCA released 33 scholarly/technical publications (Annex 18) and continued to focus on online distribution given the prevailing quarantine conditions in the region. Online SEARCA publications had close to 7,200 downloads by 3,900+ people (+7% and +35%, respectively, compared to previous years) in 85 countries worldwide. Given the average cost to print a SEARCA publication is USD 6.00, this can be interpreted as the equivalent of donating or distributing approximately USD 43,000.00 worth of publications. Similar to previous years, the most downloaded publication type was the Center's internationally peer-reviewed Asian Journal for Agriculture and Development (AJAD) comprising 33%, followed by 20% books and monographs, which includes professorial chair lectures and 20% policy briefs, papers and Agricultural Development Notes (ADNs).

Specific to AJAD, the first preprint article was published in April 2021 and will be an ongoing feature of the journal moving forward. A five-year roadmap for AJAD was also completed, with the goal of becoming SCOPUS indexed or upgraded from ESCI to SSCI in the Web of Science index by 2025.

The Center hosted its first virtual book launch in February 2021 to promote “Methodologies Supportive of Sustainable Development in Agriculture and Natural Resources Management: Selected Cases in Southeast Asia,” a publication spearheaded by the Regional SEARCA Alumni Association (RSAA).

The first SEARCA Communications Strategy was completed, and its Publications Policy, Guidelines, and Procedures was updated as part of contributing to the Center’s Operational Excellence initiative.

The SEARCA website ([www.searca.org](http://www.searca.org)) continued to be the Center’s primary online channel and received 137,000 visits (+10% compared to previous year) as well as a 97% Yes response to the online survey/question “Was our website helpful?” Besides launching the 11th FYP version of the website in July 2020, the website remained dynamic with 573 total website requests/uploads (almost 2 per day) fulfilled, with 63% comprised press releases and news articles documenting the Center’s activities and events. A website audit/benchmark was also commissioned to help identify and prioritize areas for improvement.

The Center continued to experience significant gains in its social media presence. Its official Facebook Page or <http://facebook.com/seameo.SEARCA> reached over 215,000 people with an average of >17,000 engagements (e.g., likes, comments, shares, etc.) monthly. It currently has over 36,000 Likes and 41,000 Followers (+24% and +27%, respectively, compared to previous year) where the latter are comprised of 56% Women as well as 62% Youth (18-34 years

old). The top three SEAMEO member countries where SEARCA’s Facebook Page has proven most popular are the Philippines, Myanmar, and Indonesia. A total of 731 Facebook posts (or minimum 2 per day) were published with 65% originating from the Center’s core programs and their activities and initiatives.

Other notable website or social media-related achievements in FY 2020/2021 were:

- The YouTube channel (<https://www.youtube.com/user/SEARCAseminars>) recorded over 25,000 total views and reached 1,100 subscribers (+84% compared to previous year). With just 55 exploratory posts, the SEARCA LinkedIn page or <https://www.linkedin.com/company/SEARCA> grew to 579 followers (+45% compared to previous year) and will be a 3rd official social media channel for the Center in FY 2021/2022.
- The 14th Annual Photo Contest with the theme “Faces of ATTAIN”, was successfully completed and garnered 1,527 submissions (double compared to previous year) with a 100% participation rate across all 11 SEAMEO countries. This marked the first time that the contest judging was completely held online.
- Version 2.0 of the AJAD website or <https://ajad.searca.org/> was launched and included new features such as keyword searching of AJAD articles, the new section for preprint articles, improved mobile responsiveness (given more AJAD readers access the website using their smart phones or tablets versus a desktop or laptop) and added web security and stability.

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- The SEARCA library and its close to 15,000 agriculture and development-related references remained closed but continued to deliver reference materials to SEARCA scholars living nearby upon request. Over 500 publications, scholars' dissertations, weblinks and abstracts were processed and added to the Center's online knowledge collections and its website.
- The Center's archives also remained operational and fulfilled 185 requests from the different SEARCA units and departments. A low-resolution version of the Center's photo contest submissions from 2019 and 2020 was made available to staff for their official use in presentations and other collateral, with the remaining years to follow.

### ◆ Solid Resource Base

All services that SEARCA rendered for Southeast Asia were made possible by the Center's lean, but excellent

staff complement of 66 core staff, 47 contracted staff and 121 consultants and technical experts. In FY 2020/2021, SEARCA continued to encourage the participation of its staff in online conferences, seminars, workshops, and training courses for their professional development (Annex 19).

Complementing SEARCA's professional staff were 20 Senior Fellows (Annex 20) who provided expert guidance and technical advice on the Center's core programs.

During the fiscal year, SEARCA has likewise completed the bidding process for various infrastructure projects and upgrades on its information technology resources.

SEARCA has also received an unqualified opinion from the external auditor on the Center's FY 2020/2021 financial statements which is a testament to the prudent and efficient stewardship of the Center's



SEARCA's most valuable resources are its dedicated staff.

financial resources by its finance people. Despite the disruptions brought by the COVID-19 pandemic and its implications to the Center's operations, SEARCA has increased the percentage utilization of its budget and is still maintaining a strong financial position with continuous cash flows from its Operating and Reserve funds and interest income from its Endowment fund.

### ◆ Response to the COVID-19 Pandemic

The outbreak of the COVID-19 pandemic prompted the Center to mobilize its crisis management team to plan and implement initiatives to ensure health, safety, and welfare of its staff and to continue its operations with minimum disruptions. With the mandate and guidelines from the Philippine national government, SEARCA implemented a work arrangement that allowed only up to 50% of the staff to report physically to the Center, especially essential services, while the rest were allowed to work remotely. Online communication became more vital in this setting. Thus, the staff were given communication allowance to augment their expenses for mobile data and internet. Health kits were distributed to staff and shuttle services were offered to those required to physically report to the office. The office setup was adjusted to ensure social distancing and prevent close contact.

The usual staff development activities were also converted into virtual engagements which were conducted through monthly flag ceremonies, soft skills trainings, and townhall meetings. The Center also held health and wellness activities, which included a webinar on mental health and a series of virtualympics to reinforce camaraderie among the staff.

### ◆ Relationships Building

#### Leveraging Partnerships

SEARCA's 11th FYP was crafted with special focus on partnerships to strengthen the means of its implementation and engage more collaborators in the Center's mission of elevating the quality of life of agricultural families in Southeast Asia. In the first year of the 11th FYP, SEARCA institutionalized a Strategic Framework for Partnerships to provide guidance on the Center's strategy in forging new partnerships and nurturing existing ones to facilitate bringing together various sectors towards academe-industry-government (AIG) interconnectivity for agricultural innovation. In FY 2020/2021, SEARCA entered into 59 formal agreements with 51 institutions (Annex 21).

Twelve of the new agreements are with academic institutions, specifically with state universities and colleges in the Philippines seeking to be members of the University Consortium or to access faculty development opportunities. Five of the 59 agreements are with industry and private sectors, one of which is with the Jollibee Group Foundation (JGF), the corporate social responsibility arm of the Jollibee Foods Corporation. A MOA with the JGF was executed for a research project on enhancing the onion yield of JGF's partner-farmers.

Meanwhile, SEARCA has actively engaged with government agencies at the provincial and national levels to align with their strategic priorities in agriculture and rural development. These include the Province of Laguna where SEARCA is located, and with its neighboring province of Quezon where the Center also

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initiated research and development projects for the coconut industry. This fiscal year also saw the renewal or signing of new agreements with 17 local and international nongovernmental organizations (NGOs) with common areas of interests to facilitate and accelerate transformations in the agriculture sector. Some of these NGOs have a long-standing partnership with SEARCA, such as the International Service for the Acquisition of Agri-biotech Applications (ISAAA) SE Asia Center.

strategic directions, and opportunities to strategically advance ARD and elevate the quality of life of farmers and farming families in Southeast Asia.

Possible areas of cooperation were also explored with the Japanese and French Ambassadors to the Philippines during their visit to the Center in the past year.

### Youth Engagement

SEARCA also initiated the Young Forces for Agricultural Innovation (#Y4AGRI) to enhance youth engagement in ARD. In 2020, #Y4AGRI launched the 1st Youth COVIDeo Contest which provided opportunities for Southeast Asian youth to showcase their local food production practices amid the pandemic through vlogs, documentary, and short film. There were 75 entries from Indonesia, Malaysia, and the Philippines. A narrative analysis of youth actions for food security based on the video entries was also published by young SEARCA staff in SEARCA's

Agriculture Development Notes (ADN) Series.



SEARCA and the Oscar M. Lopez (OML) Center renewed their partnership on climate-smart agriculture initiatives on 23 February 2021.

The SEARCA Stakeholders Forum held in October 2020 was attended by over 700 participants and had 33 resource speakers and moderators from 21 countries. The forum was designed to bring relevant, multi-sector ARD partners together to highlight and exchange experiences, challenges, best practices,

In March 2021, the SEARCA Youth Ambassadors Platform (SAYAP) was institutionalized as an empowerment platform of the Center composed of youth representatives from all Center departments and units. SAYAP members led the conduct of

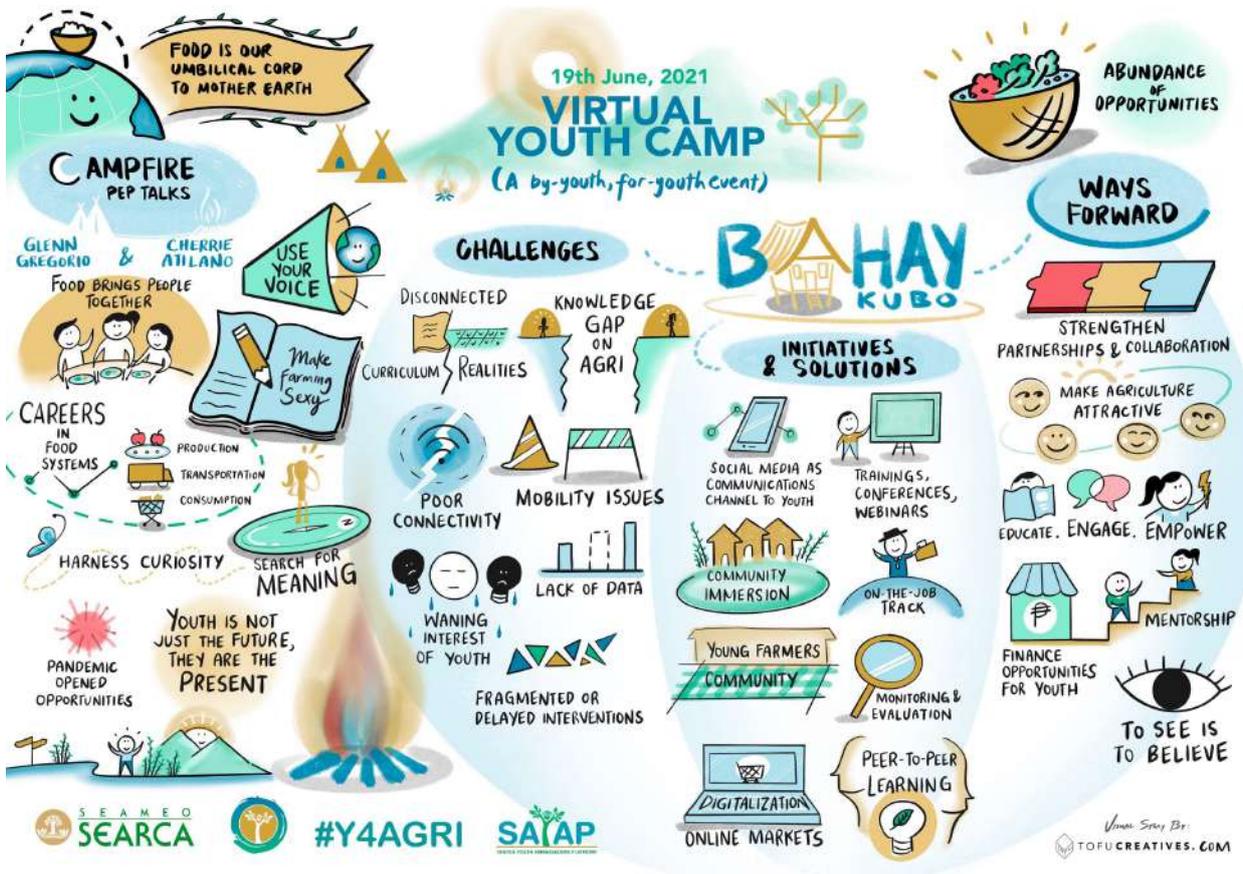
SEARCArunungan para sa SEARCAbataan (SEARCA Wisdom for SEARCA Young Ones), an internal forum that facilitates knowledge exchanges between senior and young SEARCA staff on topics that are important in professional and personal development. SAYAP also led the conduct of #Y4AGRI's 1st Virtual Youth Camp that engaged 21 young leaders and advocates to enable youth perspectives on challenges and solutions in the agri-food system amid the pandemic and post-pandemic.

#Y4AGRI also continually supported youth and youth-serving organizations on initiatives that align with SEARCA's priority focus on gender and youth engagement in ARD, including the Agricultural Students

Association of the Philippines (ASAP), AIESEC Philippines, and the Dagatan and Balete Family Farm Schools.

**Public Relations**

SEARCA maintained its solid reputation and reinforce a positive corporate image among its stakeholders and partners with its public relations (PR) efforts. Media coverage received during the fiscal year included 214 articles published by newspapers and online news sites, three live radio interviews, and one television feature. The Center also publicized its work through various owned media, including website news and countless social media posts and stories. The Center's PR efforts included value-driven activities upholding



A visual summary of the virtual dialogue during SEARCA's 1st Virtual Youth Camp.

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the SEARCA brand, including a training-workshop to enhance the knowledge and skills of SEARCA staff in writing news articles for publication.

Moreover, SEARCA used corporate communication as a PR tool to project a positive corporate image, build strong relationships with stakeholders, and inform the public about new services and achievements. Corporate materials produced included country booklets summarizing SEARCA's work in each of the 11 SEAMEO member countries, partnership briefs about previous and ongoing engagements with past and present collaborators, a weekly calendar for staff and its Governing Board, a monthly e-news service, a quarterly newsletter, and an annual report. SEARCA also produced a booklet, planner, and other corporate materials that promote its 11th FYP as well as various audiovisual presentations about the Center's programs and activities.

### ◆ Community Outreach

To fulfill its commitment to alleviate poverty and support food and nutrition security in its environs, SEARCA started a Community Relations Program that helps educate its neighboring communities on simple agricultural activities to augment their food supply. Toward this end, SEARCA continued to distribute vegetable seeds to constituents of Laguna, Quezon, and Quirino. Major outreach activities carried out were the Greening Molawin Creek project, support to first-time mothers, and distribution of vegetables and zinc- and iron-fortified rice seeds.

Since the onset of the pandemic, SEARCA has been extending assistance to its neighboring communities, scholars, and staff. The Center donated vegetable seeds and pedal faucets to the community. SEARCA scholars were given in-kind and financial support. In May 2021, the Center started the SEARCA Community Pantry, which provided in-kind support especially to agency personnel who are covered by a "no work, no pay" policy, and encouraged consumption of healthy food choices while supporting local farmers. SEARCA Cares was an outreach activity that included distribution of hygiene kit packages to the elderly in the Los Baños community.

## FUTURE OUTLOOK

SEARCA will continue to help cultivate future agricultural leaders to advance Sustainable Development Goals (SDGs) by offering scholarships for graduate studies and enhancing faculty skills in the agricultural sciences and related fields. We will expand our partnerships to foster development in agricultural innovation, agroecological transition, and food security. Our online initiatives, such as the SOLVE Webinar Series, will continue to promote global knowledge exchange.

Aligned with the ATTAIN initiative and our 11th Five-Year Plan, we will organize more events to foster interconnectivity among academe, industry, and government. Our commitment remains towards transforming Southeast Asia's agricultural landscapes into vibrant, resilient communities.

Building on a strong collaborative foundation, we will enhance policy and program development for smallholder farming in ASEAN Member States and continue research projects analyzing public policies on family farming and regional food security. Platforms like AgPractices & Domains and AFNR Knowledge will be enhanced for agricultural innovation and youth engagement.

We are committed to hosting transformative dialogues as part of global initiatives like the UN Food Systems Summit and will continue to develop guidelines for digital and climate-smart agriculture. Our vision is for a future where innovation, knowledge sharing, and collaboration lead to thriving agricultural communities.

SEARCA will continue to support agribusiness startups, agri-food products commercialization, and mobile-based e-commerce systems for farmers

through various initiatives. We anticipate accelerating the adoption of agri-technologies benefiting farming communities through the EIGD. Our focus remains on driving holistic ARD-related project development in Southeast Asia, contributing to the industrialization and modernization of agriculture, and enhancing regional higher education programs on agriculture.

Going into the second year of its 11th Five-Year Plan, SEARCA aims to build on its growth, innovation, and excellence. We will stay focused on our four performance areas: organizational health, operational excellence, linkages, and farming families, continuously refining our ATTAIN strategy to promote staff well-being and efficient operations.

Despite the COVID-19 pandemic, we are committed to strengthening our digital platforms and increasing our scholarly output. Our digital presence will remain a priority, with aims to boost website user experience and engagement across social media. We plan to add more publications to our online library while strategizing on safely re-opening our physical resources.

Our team will be nurtured through professional development programs and expert guidance from our Senior Fellows. Building on our strong financial position, we'll execute infrastructure projects, invest in IT resources, and ensure efficient financial stewardship, keeping SEARCA resilient amid uncertainties.

SEARCA remains dedicated to transforming the agriculture sector and rural communities in Southeast Asia. We are eager to navigate the challenges and opportunities that lie ahead on our path of continuous growth and development.



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**Annex 1. Number of SEARCA Graduate Scholarships (Full and PhD Research), FY 2020/2021**

Country	FY 2020/2021						As of 30 June 2021						Total
	Awarded			Ongoing			Completed			Others <sup>2</sup>			
	MS	PhD	PhD Res <sup>1</sup>	MS	PhD	PhD Res	MS	PhD	PhD Res	MS	PhD	PhD Res	
<b>SEARCA Regular Scholarships</b>													
Brunei	0	0	0	0	0	0	0	1	0	0	0	0	1
Cambodia	0	0	0	2	1	0	32	5	1	5	3	0	49
Indonesia	0	3	0	3	10	7	145	77	12	12	10	0	279
Lao PDR	0	0	0	0	3	0	35	4	1	2	1	0	46
Malaysia	0	3	0	0	3	4	45	8	0	3	4	0	70
Myanmar	0	0	0	3	3	1	26	31	0	1	0	0	65
Philippines	0	1	0	7	6	11	137	123	49	13	10	2	359
Singapore	0	0	0	0	0	0	4	0	0	0	0	0	4
Thailand	0	0	0	1	8	1	104	116	5	3	9	0	247
Timor-Leste	0	0	0	4	5	0	22	9	0	2	1	0	43
Vietnam	0	0	0	0	8	4	46	30	2	8	5	0	103
Sub-total	0	7	0	20	47	28	596	404	70	49	43	2	1266
<b>Project Scholarships<sup>3</sup></b>													
Brunei	0	0	0	0	0	0	1	0	0	0	0	0	1
Cambodia	0	0	0	1	0	0	28	9	0	0	1	0	39
Indonesia <sup>5</sup>	2	4	0	0	6	0	37	45	0	1	0	0	95
Lao PDR	0	0	0	0	0	0	31	0	0	0	0	0	31
Malaysia	2	0	0	0	9	0	7	0	0	0	1	0	19
Myanmar	0	0	0	0	0	0	24	12	0	0	0	0	36
Philippines	1	4	0	3	6	0	63	46	0	0	3	0	126
Singapore	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	0	0	0	0	1	0	63	59	0	0	0	0	123
Timor-Leste	0	0	0	0	1	0	19	1	0	4	0	0	25
Vietnam	0	0	0	3	6	0	39	15	0	0	0	0	63
Others <sup>4</sup>	0	0	0	0	0	0	28	1	0	0	0	0	29
<b>Sub-total</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>0</b>	<b>340</b>	<b>188</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>587</b>
<b>Grand Total</b>	<b>5</b>	<b>15</b>	<b>0</b>	<b>27</b>	<b>76</b>	<b>28</b>	<b>936</b>	<b>592</b>	<b>70</b>	<b>54</b>	<b>48</b>	<b>2</b>	<b>1853</b>

<sup>1</sup>PhD Research Scholarship provides financial support for the conduct of dissertation research only

<sup>2</sup>Unsuccessful/Abandoned

<sup>3</sup>Scholarship grants provided/managed in partnership with other institutions, i.e., German Academic Exchange Service (DAAD), Department of Agriculture (DA), Philippines; France's *Ecole Nationale Supérieure des Industries Agricoles et Alimentaires* (ENSIJA); Ford Foundation; German Foundation for International Development (DSE); International Development Research Centre (IDRC) of Canada; International Plant Genetic Resources Institute (IPGRI) now called Bioversity International; Nagoya University (NU), Japan; Philippine Carabao Center (PCC); Thailand's Bank of Agriculture and Agricultural Cooperatives (BAAC); Tokyo University of Agriculture (Tokyo NODAI), Japan; United Nations Development Fund (UNDF); UN Food and Agriculture Organization (FAO); United States Agency for International Development-Department of Technical and Economic Cooperation (USAID/DTEC); and Universiti Putra Malaysia (UPM)

<sup>4</sup>Graduate scholarship grants managed for non-SEAMEO nationals from Bangladesh, Fiji, Ghana, and Nepal

<sup>5</sup>One new Tokyo NODAI-SEARCA scholar granted and completed in FY 2020/2021

**Annex 2. SEARCA Project Scholars, FY 2020/2021**

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
<b>German Academic Exchange Service (DAAD) Project</b>			
<b>New Scholars (4)</b>			
Ayu Septi Anggraeni (F,34)	Indonesian Institute of Sciences/ Indonesia	IPB/PhD, nutrition and feed science/ In vitro and in sacco Assessment of Fermentation Characteristic and Ruminal Microbiota in Beef Cattle Fed with Diets Containing Black Soldier Fly Larva ( <i>Hermetia illucens</i> ) as Methane Reduction Agent	1 September 2020 – 31 August 2023
Muhammad Chrisna Satriagasa (M,31)	Universitas Gadjah Mada/ Indonesia	KU/PhD, forestry (watershed management)/ The Role of Ecosystem-based Disaster Risk Reduction (eco-DRR) in Watershed Scale to Reduce the Impact of Climate Change Effect on Food Security in Tropical Countries	1 January 2021 – 31 December 2023
Shemaiah Gail P. Placencia (F,25)	University of the Philippines Mindanao/ Philippines	UPLB/MS, agricultural economics/ Market Behavior towards Sustainable and Ethical Differentiation in Cacao Products: The Case of the Southeastern Philippines	1 September 2020 – 31 August 2022
Anne Gellie P. Pablo (F,29)	Western Philippines University/ Philippines	KU/PhD, food science/ Profiling of the Potential of Palawan Indigenous Fruits: Physico-chemical Properties, Total Phenolic Content, Flavonoid Content, Antioxidant, Anti-microbial, Anti-inflammatory and Cytotoxicity Capacity	1 January 2021 – 31 December 2023
<b>Ongoing Scholars (25)</b>			
Pengly Koun (M,25)	Royal University of Agriculture/ Cambodia	KU/MS, agricultural resources/ Soil Quality Assessment Associate with Mycorrhiza Symbiosis of Cassava-based Conservation Agriculture Cropping Systems	1 August 2019 – 31 July 2021
Cipto Nugroho (M,38)	Indonesia Agency for Agricultural Research and Development/ Indonesia	UPLB/PhD, plant pathology/ Development of Cashew Nut Shell Liquid for Botanical Pesticide Against Fungal Pathogen of Rice	1 August 2019 – 31 July 2022
Chindy Ulina Zanetta (F,32)	Institut Teknologi Bandung/ Indonesia	UPM/PhD, plant science/ Morpho-Physiological Dissection and Molecular Characterization of Heat Stress Tolerance in Pea ( <i>Pisum sativum</i> L.)	1 September 2019 – 31 August 2022
Gita Addelia Nevara (F,33)	Universitas Mohammad Natsir Bukittinggi/ Indonesia	UPM/PhD, food science/ Resistant Starch Properties of Cooked Rice Affected by Kenaf Seed Addition and its Impact on Blood Glucose Level	1 October 2019 – 30 September 2022
Vina Eka Aristya (F,37)	Ministry of Agriculture/ Indonesia	UGM/PhD, agricultural sciences/ The Effectiveness of Rice Participatory Varietal Selection in Central Java	1 August 2018 – 31 January 2022
Antun Puspanti (F,44)	Ministry of Environment and Forestry/ Indonesia	UGM/PhD, forestry/ Evaluation of Post Coal Mining Reclamation on Improvement of Soil Properties and Hydrological Function in East Kalimantan as a Process of Ecosystem Resilience	1 August 2017 – 31 July 2021
M Murugan Manikam (M,37)	Ministry of Domestic Trade and Consumer Affairs/ Malaysia	UPM/PhD, forest management and ecosystems sciences/ A Study on the Impact of Global Sustainability and Legality Policies on Forest and Timber Industry in Malaysia	1 February 2020 – 31 January 2023
Mohd Azlin Bin Mohd Nor (M,38)	Universiti Teknologi MARA/ Malaysia	UPM/PhD, biocomposite technology and design/ Mechanical Properties of Wooden Kenaf/Polyester Reinforced PLA Hybrid Composites	1 September 2019 – 31 August 2022
Nursabrina Binti Munawar (F,37)	Universiti Teknologi MARA/ Malaysia	UPM/PhD, food technology/ Characterization and Quantification of Carcinogenic polycyclic aromatic hydrocarbons (PAHs) in Ficus stewartia herbal tea and Its Infusion	1 September 2019 – 31 August 2022
Shahida MD Nor (F,32)	Geomatika University College/ Malaysia	UPM/PhD, horticulture/ Physiochemical Changes During Fruit Growth and Postharvest Characteristics of Purple Passion Fruit	1 September 2019 – 31 August 2022
Nor Akhlisah Binti Zulkipli (F,29)	Universiti Putra Malaysia/ Malaysia	UPM/PhD, environmental engineering/ Synthesis of Levulinic Ester from Oil Palm Biomass by Alcoholysis reaction	1 February 2019 – 30 June 2022
Tuan Syaripah Najihah Tuan Mohd Razali (F,31)	Universiti Sultan Zainal Abidin/ Malaysia	UPM/PhD, agricultural technology/ Effect of High Temperatures and Elevated CO <sub>2</sub> with Potassium Treatments on the Physiology of <i>Elaeis guineensis</i>	Waiting for proof of completion

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
Shampazuraini Binti Samsuri (F,38)	Mara University of Technology/ Malaysia	UPM/PhD, plant science/ The Growth Traits of Zingerber officinale (Ginger) and Centella asiatica (Pegaga) in Adoption with Rubber Intercropping	1 September 2018 – 31 January 2022
Marla V. Relloso (F,36)	Department of Agriculture/ Philippines	UPLB/PhD, agricultural economics/ Supply and Value Chain Analysis of the “Queen” Pineapple Industry in Camarines Norte	1 August 2018 – 31 July 2021
Zyra May H. Centino (F,35)	Visayas State University/ Philippines	UPLB/PhD, agricultural economics/ Climate Change and Adaptive Strategies in the Fishery Sector: Assessing the Impacts on Small Scale Fisherfolks in the Western Coast of Leyte	1 August 2018 – 31 December 2021
Edchelle S. Flores (F,28)	Philippine Institute of Volcanology and Seismology/ Philippines	UPLB/MS, extension education/ Individual and Community-based Adaptation of the Residents of Umingan, Alimodian, Iloilo, Philippines to a Series of Rainfall-induced Landslides	1 August 2018 – 31 July 2021
Romiel John P. Basan (M,32)	University of Southern Mindanao/ Philippines	UPLB/PhD agricultural economics/ Climate Change Vulnerability and Food Security Assessment of Selected Agricultural Communities in Rural Areas of Mindanao Island, Philippines	1 January 2019 – 31 December 2021
Augusto Barros (M,52)	Ministry of Agriculture and Fisheries/Timor-Leste	UPLB/PhD, animal science/ Upgrading Farming Systems in the Effort of Inbreeding Prevention on Bali Cattle in Lautem Municipality, Timor-Leste	1 August 2018 – 31 December 2021
Mai Thanh Huong (F,28)	Vietnam National University of Agriculture/ Vietnam	UPLB/PhD, agricultural economics/ Value Chain Analysis of Geographic Indications Coffee Buon Ma Thuot in Dak Lak Province of Vietnam	1 August 2019 – 31 July 2022
Nguyen Thi Thuy (F,30)	Hue University/ Vietnam	KU/MS, veterinary parasitology/ Study of toxoplasma gondii in free-range ducks in Central region of Thailand	1 August 2019 – 31 January 2022
Mai Chiem Tuyen (M,37)	University of Economics – Hue University/Vietnam	KU/PhD, agriculture and resource economics/ Linking the Stakeholders in Rice Production of the “Large-Scale Field Model” in Thua Thien Hue Province	1 August 2018 – 31 March 2022
Mai Tien Huy (M,30)	Vietnam National University of Agriculture/ Vietnam	UPLB/PhD, agricultural economics/ Value Chain Analysis of Cassava in Central Highlands of Vietnam	1 August 2018 – 31 July 2021
Phan Xuan Tan (M,34)	Vietnam National University of Agriculture/ Vietnam	UPLB/PhD, agricultural economics/ Linkages in Production and Distribution of Dairy Farming: A Case Study in the North of Vietnam	1 August 2018 – 31 December 2021
Nguyen Linh Trung (M,29)	Vietnam National University of Agriculture/ Vietnam	UPLB/MS, agricultural economics/ Technical Efficiency and Profitability of VietGAP Adoption of Tomato Farming in Hung Yen Province, Vietnam	1 August 2017 – 30 June 2021
Nguyen Tuan Tran Ngoc (M,30)	Hue University/ Vietnam	KU/MS, agricultural and resource economics/ Rice Farmer’s Vulnerability and Adaptation Method to Climate Variability in Coastal Area of Thua Thien Hue Province, Vietnam	1 August 2017 – 30 June 2021
<b>Completed Scholars (7)</b>			
Risal Ardika (M,37)	Indonesia Rubber Research Institute/ Indonesia	UPLB/PhD, soil science/ Latex Productivity and Nutrient Uptake of Rubber Clones as Influenced by Ethephon and Fertilizer Application	June 2020
Ines Soares Pereira (F,26)	Universidade Oriental Timor Lorosae/ Timor-Leste	UPLB/MS, environmental science/ Performance Evaluation and Acceptability to the Neighboring Community of the Swine farm Lagoon of the University of the Philippines Los Baños, Laguna, Philippines	September 2020
Vat Sovanny (F,27)	Royal University of Agriculture/ Cambodia	UPLB/MS, applied nutrition/ Nutrition and Phytochemical Composition of Selected Indigenous Vegetables in Kampong Chhnang Province, Cambodia	March 2021
Nguyen Phuong Mai (F,27)	Vietnam National University of Agriculture/ Vietnam	KU/MS, tropical agriculture/ Effects of Biochar on Growth and Amount of Saponin in Ming Aralia Plant (Polyscias fruticose (L.) Harms) under Saline Condition	June 2021
Hector Bryan P. Grama (M,31)	UP Visayas Tacloban College/Philippines	UPLB/MS, agricultural economics/ Constraints to Value Addition Decisions of Ubi/Purple Yam Farmers in Bohol, Philippines	June 2021

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
Ulderico B. Alviola (M,35)	Visayas State University, Baybay, Leyte/ Philippines	UPLB/Straight PhD, development communication/ Conflict Communication, Adoption and Social Appropriation of Genetically Modified Crops in a Non-Biotech Declared Area: The Case of Davao City	June 2021
Le Phuong Nam (M,34)	Vietnam National University of Agriculture/ Vietnam	UPLB/PhD, agricultural economics/ Economics of Climate Change Adaptation Among Farming Households in Nong Cong District, Thanh Hoa Province, Vietnam	June 2021
Others (1)			
Mohd Zulhlimi Misrol (M)	Universiti Putra Malaysia/ Malaysia	KU/Phd, Tropical Agriculture/ Induced Mutation Of Selected Tacca Species In Vitro Using Gamma Irradiation	Scholarship terminated due to health issues
<b>Philippine Carabao Center (PCC) Project</b>			
<b>New Scholar (1)</b>			
Ma. Theresa R. Sawit (F,36)	Philippine Carabao Center, Nueva Ecija/ Philippines	UPLB/PhD, development studies/ Establishing a Business Hub Model: A Framework for Sustainable and Inclusive Dairy Industry Development	1 September 2020 – 31 August 2023
<b>Ongoing Scholars (3)</b>			
Laarni M. Parungao (F,38)	Philippine Carabao Center, Los Baños, Laguna/Philippines	UPLB/MS, food science/ Determination of the Preferred Processing Parameters and Attributes of Carabeef Meat Floss and It's Promotion through Packaging Design	1 August 2017 – 31 May 2021
Zadieshar G. Sanchez (M,31)	Philippine Carabao Center, Nueva Ecija/ Philippines	UPLB/MS, agricultural economics/ An Evaluation of the Economic Viability of Buffalo Dairy Farming in the Philippines	1 August 2018 – 30 June 2021
Jesus Rommel V. Herrera (M,50)	Philippine Carabao Center, Los Baños, Laguna/Philippines	University of New England (UNE)/PhD, animal breeding and genetics/ The Use of Genomic Data in a Dairy Buffalo Breeding Program	1 June 2015 – 31 December 2019
<b>Completed Scholars (3)</b>			
Estella P. Valiente (F,33)	Philippine Carabao Center, Nueva Ecija/ Philippines	UPLB/MS, environmental science/ Implications of Waste Management Practices of Dairy Buffalo Farms on Milk and Groundwater Quality in Nueva Ecija, Philippines	January 2021
Patrizia Camille O. Saturno (F,29)	Philippine Carabao Center, Nueva Ecija/ Philippines	University of Melbourne/M, food science/ Comparison of Self-Reported Consumer Liking with Facial Expression Recognition Technique on Yoghurt with Different Protein Bases	February 2021
Randolph B. Tolentino (M,33)	Philippine Carabao Center, Nueva Ecija/ Philippines	UPLB/MS, veterinary medicine/ Detection of Microbial, Veterinary Drug, Pesticide And Heavy Metal Contaminants Using High Performance Liquid Chromatography (HPLC) in Market Buffalo Milk from Dairy Cooperatives in Nueva Ecija	June 2021
<b>International Development Research Centre (IDRC) Project</b>			
<b>Completed Scholar (1)</b>			
Xayly (M,41)	Agriculture Extension and Cooperative Section, Ministry of Agriculture/Lao PDR	UPLB/MS, agricultural economics/ Effects of Kaoleo II Pump Irrigation on Rice Production and Income in Kaoleo, Vientiane Capital, Lao PDR	January 2021
<b>Tokyo University of Agriculture (NODAI)-SEARCA Joint Scholarship</b>			
<b>New and Completed Scholar (1)</b>			
Muhammad Reza Cordova (M,35)	Indonesian Institute of Sciences/ Indonesia	Tokyo NODAI/PhD, Aquatic Bioscience/ Study on Macro and Microplastics Debris in Indonesian Water: Current Condition and Problem	Completed in May 2021
<b>Ongoing Scholar (1)</b>			
Lilian P. Villamor (F,44)	Philippine Carabao Center/ Philippines	Tokyo NODAI/PhD, bioscience/ Research on the Insecticide Resistance of Indoxcarb, Fipronil, and Imidacloprid of Jassid (Amrascadevastans) on Cotton	1 September 2018 – 31 August 2021

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
<b>Nagoya University (NU)-SEARCA Joint Scholarship</b>			
<b>New Scholar (1)</b>			
Maria Cristina F. Campita (F,41)	Department of Agriculture, RFO 5/ Philippines	NU/PhD, bioagricultural sciences/ Agricultural Marketing Analysis of Queen Pineapple in the Philippines towards Effective Value Chain Management	1 March 2021 – 28 February 2024
<b>Ongoing Scholar (1)</b>			
Thelma A. Saludes (F,46)	Philippine Carabao Center/ Philippines	NU/PhD, bioagricultural sciences/ Analysis of Socioeconomic Dimensions Influencing the Carabao Development Program Implementation in Southern Luzon	August 2019 – September 2022
<b>Universiti Putra Malaysia (UPM)-SEARCA Joint Scholarship</b>			
<b>New Scholars (2)</b>			
Rahmah Nur Lailatul (F,37)	Universitas Brawijaya/Indonesia	UPM/PhD food engineering/ Subcritical Water Extraction Process of Tannin from Areca Cathecu and Its Application in Agro-Industry	1 October 2020 – 30 September 2023
Shanti Dwita Lestari (F,38)	Sriwijaya University/ Indonesia	UPM/PhD food science and technology/ The contribution of Raw Material in Some Quality Profiles of Salt- fermented and Salt-carbohydrate-fermented Fish	1 October 2020 – 30 September 2023
<b>Ongoing Scholars (2)</b>			
Truong Hong Vo Tuan Kiet (M,36)	Can Tho University/ Vietnam	UPM/PhD, agricultural policy/ Regional Economic Integration: Policy Scenarios for Sustainable Development Strategy of Mango Value-Chain in Mekong Delta towards Domestic and International Markets	1 September 2018 – 31 August 2021
Arissara Sopawong (F,36)	Ubon Ratchathani University/ Thailand	UPM/PhD, biodiversity and conservation of natural resources/ Establishment of Biogreen Floating Aquaculture System for Improvement of Water Quality and Fish Production	1 September 2017 – 31 August 2021
<b>Completed Scholar (1)</b>			
Nuraizat Abidin (F,29)	Universiti Brunei Darussalam/ Brunei Darussalam	UPM/MS, plant pathology/ Characterization and Pathogenicity of <i>Pantoea stewartii</i> Causing Fruit Bronzing of Jackfruit ( <i>Artocarpus heterophyllus</i> ), A New Emerging Diseases in Peninsular Malaysia	February 2021
<b>Agropolis Fondation-SEARCA and Agropolis-UPM-SEARCA Joint Scholarships</b>			
<b>Ongoing Scholars (4)</b>			
Nguyen Van Hieu (M,33)	Cuu Long Delta Rice Research Institute/ Vietnam	UPLB/PhD, plant breeding/ Integration of Genetic Resources from Gene Bank into Breeding Program and Optimization of Their Use for Genetic Improvement: A Case Study on Rice	1 January 2020 – 31 December 2022
Junaidi (M,38)	Indonesian Rubber Research Institute/ Indonesia	UGM/PhD, biological sciences/ Biochemical, Near- infrared Spectroscopy Analysis of Reactive Oxygen Species-scavenging Systems in Latex of <i>Hevea brasiliensis</i>	17 January 2019 – 16 January 2022
Julia Ng Su Chen (F,44)	World Wide Fund for Nature/ Malaysia	UPM/PhD, bioresource management/ Advancing on the Conceptualization of a Theory of Change for Landscape Approaches to Biodiversity Conservation, The Case of Sabah in Malaysia	1 September 2019 – 31 August 2022
Yao Tze Leong (M,39)	Forest Research Institute Malaysia	UPM/PhD, forest management and ecosystem sciences/ Ensuring the Future of Perennial Crops in Southeast Asia in a Context of Global Change: Case of <i>Garcinia</i> Fruit Tree Species	1 September 2019 – 31 August 2022
<b>Malaysian Agricultural Research and Development Institute (MARDI)-SEARCA Joint Scholarship</b>			
<b>New Scholars (2)</b>			
Mohd Solihen Bin Jamal (M,34)	MARDI/ Malaysia	UPLB/MS, Plant Breeding/ Improvement of Blast Resistant in Malaysian Rice Cultivars through Doubled Haploid Breeding Approach	1 September 2020 – 31 August 2022
Mohd Faiz Bin Musa (M,35)	MARDI/Malaysia	UPLB/MS, Extension Education/ Technology Efficiency to MARDI Techno Agropreneur	1 March 2021 – 28 February 2023

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
<b>National Taiwan University (NTU)-SEARCA Joint Scholarship</b>			
<b>New Scholars (2)</b>			
Felix Subakti (M,22)	Indonesia	NTU/ Master in Global Agriculture Technology and Genomic Science/Purpose Built Fibers Production Oriented Plant Factory	1 September 2020 – 31 August 2022
Aisyah Fitri Rohani (F,25)	Indonesia	NTU/ Master in Global Agriculture Technology and Genomic Science/ Detection of the CNP Production Gene on Cassava ( <i>Manihot esculenta</i> Crantz)	1 September 2020 – 31 August 2022
<b>Decline (2)</b>			
Ilham Maulidin (M)	Indonesia	NTU/ Master in Global Agriculture Technology and Genomic Science	Declined
Huong Nontarak (M)	Cambodia	NTU/ Master in Global Agriculture Technology and Genomic Science	Declined
<b>Bulacan State University (BuSU)-SEARCA Joint Scholarship</b>			
<b>New Scholar (1)</b>			
June-June P. Santos (M,29)	BuSU/Philippines	De La Salle University/PhD Civil Engineering/Use of Nanotechnology To Reduce Cement Consumption and Promote Material Sustainability towards Climate Change Adaptation	1 March 2021 – 28 February 2024

\*M-male, F-female

\*\*IPB – Institute Pertanian Bogor, KU – Kasetsart University, UPLB – University of the Philippines Los Baños, UPM – Universiti Putra Malaysia, UGM – Universitas Gadjah Mada

### Annex 3. New, Ongoing, and SEARCA Completed Graduate Scholars, FY 2020/2021

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
<b>New Scholars (7)</b>			
Dian Kusumaningrum (F,40)	Prasetiya Mulya University/Indonesia	IPB/PhD statistics and data science/ Development of Predictive Analytics for Crop Insurance Policy in Indonesia	1 August 2020 – 31 July 2023
Rini Widyastuti (F,40)	Padjadjaran University/Indonesia	IPB/PhD veterinary medicine/ Optimization of Bovine Sperm Sexing Method Using Incubation and Precision Media to Produce Embryo Fertilized with Single Sperm Injection	1 August 2020 – 31 July 2023
Bhakti Etza Setiani (F,40)	Diponegoro University/Indonesia	UB/PhD food science/ Screening of Microflora, Aflatoxins, and Biogenic Amines of Tauco as Flavouring Agents which Made of Soybean Fermentation	1 August 2020 – 31 July 2023
Sarini Ahmad Wakid (F,41)	Universiti Teknologi MARA/Malaysia	UPM/PhD environmental biotechnology/ Effect of Heavy Metal on the Expression and Properties of Glutathione Stransferase in <i>Geloina expansa</i> Mousson, 1849	1 October 2020 – 30 September 2023
Nina Farhana Mohd Jamaludin (F,33)	Xiamen University/ Malaysia	UPM/PhD chemical engineering/ Enhancement of Biohydrogen Production from Palm Oil Mill Effluent (POME) Utilizing Immobilize Cell Induced by Magnetite Nanoparticle Via Thermophilic Anaerobic Digestion	1 October 2020 – 30 September 2023
Siti Norazura Binti Jamal (F,35)	Universiti Teknologi MARA/Malaysia	UPM/PhD plant biotechnology/ Characterization of Bioactive Compounds with Antimicrobial Properties Isolated from Mangrove Molluscs Against Plant Pathogen	1 October 2020 – 30 September 2023
Michelle B. Gatab-Laruan (F,35)	Benguet State University/Philippines	UPLB/PhD development communication/ Towards a Sustainable Organic Agriculture: Program Development in the Promotion of Organic Agriculture from the Farmers' Experiences in Benguet, Philippines	1 August 2020 – 31 July 2023
<b>Ongoing Scholars (66)</b>			
Rambo Mao (M,31)	Ministry of Agriculture, Forestry and Fisheries/ Cambodia	KU/MS, tropical agriculture/ Soil Chemical Properties, Microorganism Diversities and Physiological Response of Maize Cultivated in Paddy Soil	1 August 2019 – 31 December 2021

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
Nget Raby (M,31)	Royal University of Agriculture/ Cambodia	UPLB/PhD, agronomy/ Strategies and Potential Resources Useful for Optimizing Soil Fertility Management on Sandy Soils in Cambodia	1 August 2019 – 31 July 2022
Sar Veng (M,35)	Provincial Department of Agriculture/ Cambodia	KU/MS, tropical agriculture/ Assessment of Soil Quality of Different Agricultural Practices in Rain-fed Lowland Rice in Cambodia using Biofuctool Approach	1 August 2017 – 31 August 2021
Dian Ridwan Nurdiana (M,38)	Indonesian Institute of Sciences/ Indonesia	UPLB/PhD, botany/ Physiological performances of <i>Mangifera odorata</i> Griff (Anacardiaceae) Both Ex Situ and In Situ conservation sites in the Philippines	1 August 2019 – 31 July 2022
Yuli Haryani (F,39)	University of Riau/ Indonesia	UPM/PhD, food biology/ Isolation, Identification and Characterization of Endophytic Fungi from Riau Province Mangrove Plants as Natural Sources of Antimicrobial Compounds	1 September 2019 – 31 August 2022
Erise Anggraini (F,32)	Sriwijaya University/ Indonesia	UPM/PhD, entomology/ Biological Control of Insect Pest on Paddy Using Entomopathogenic Fungi	1 September 2019 – 31 August 2022
Heri Kurnianto (M,37)	Assessment Institute for Agricultural Technology of Central Java/ Indonesia	UPM/MS, epidemiology and public health/ Prevalence of Large Ruminants Fasciolosis towards Climate Change and Predicting Economic Effects in Smallholder Farm in Central Java, Indonesia	1 September 2019 – 31 August 2021
Amar Maruf (M,40)	Halu Oleo University/ Indonesia	UPM/PhD, community development/ Climate Change, Fisheries Management and the Fate of Sama-Bajau People; A New Sign of Re-Survival or Collapse? (A Study Case of the Sama-Bajau People in Southeast Sulawesi, Indonesia)	1 September 2019 – 31 August 2022
Andi Nur Cahyo (M,38)	Indonesian Rubber Research Institute/ Indonesia	UGM/PhD, agronomy/ The Effect of Antitranspirants and Irrigation Periods on the Growth and Water Use Efficiency of Rubber Planting Material	1 September 2018 – 31 August 2021
Dian Agustina Abidinsyah (F,40)	Universitas Haluleo/ Indonesia	UPM/PhD, animal nutrition/ The Effect of Various Feedstuffs Containing Plant Secondary Metabolites in Goat	1 September 2018 – 28 February 2022
Hernawan Yuli Rahmadi (M,41)	Indonesian Oil Palm Research Institute/ Indonesia	IPB/PhD, plant breeding and biotechnology/ Breeding for Moderate Tolerance Oil Palm Planting Material Using Conventional Breeding and Molecular-assisted Approaches	1 September 2018 – 31 August 2021
Septina Asih Widuri (F,38)	Research Institute for Natural Resource Conservation and Technology/ Indonesia	IPB/MS, plant biology/ Ethnobotany of Less Known Edible Medicinal Plants from Indigenous Tribes in Kalimantan- Phytochemical, Biological and Nutritional Value Analysis	1 September 2018 – 31 August 2021
Syamsu Eka Rinaldi (M,38)	Research Institute for Natural Resource Conservation and Technology/ Indonesia	IPB/MS, natural and environmental resource management/ Rural Development through Forestry Partnership for Sustainable Management: Multi-stakeholder Approaches and Social Learning	1 September 2018 – 31 August 2021
Fitriana Nasution (F,42)	Indonesian Tropical Fruit Research Institute/ Indonesia	KU/PhD, Tropical Agriculture/ <i>Muntingia calabura</i> L. as a Fruit Alternative for Consumption	1 September 2018 – 31 December 2021
Muhammad Syukril (M,41)	Regional Development Planning Board of Southeast Sulawesi/ Indonesia	UGM/PhD, agricultural sciences/ Sustainable Development and Spatial Knowledge Management for Agriculture in Mining Province	1 August 2018 – 31 July 2021
Fadhliani (F,41)	Universitas Malikussaleh/ Indonesia	UPM/PhD, water resources engineering/ Modeling Land Use Change Impacts on Water Resources Adopting a Flexible Semi Distributed Model	1 September 2016 – 31 December 2020
Candle Sidthisone (M,32)	Savannakhet University/ Lao PDR	UPLB/PhD, community development/ Analysis of Trade Liberalization in Agricultural Sector and Its Impacts on Poverty Reduction and Wages in Agricultural Sector in the Lao PDR: An Empirical Study	1 August 2019 – 31 July 2022
Viengvilaiphone Botthoulath (F,29)	Savannakhet University/ Lao PDR	UPLB/PhD, molecular biology and biotechnology/ Isolation, Screening, Identification and In Vitro Assessment of Potential Probiotic of the Bacteriocin-like Substances Produced by Lactic Acid Bacteria Isolated from Lao Traditional Fermented Bamboo (Nor Mai Som)	1 August 2019 – 31 July 2022

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
Phoukeo Saokhamkeo (M,41)	National University of Laos/Lao PDR	KU/PhD, agricultural research and development/ Socio-Economic Analysis Under Commercial Rice Farming Approach in Vientiane Capital, Middle Laos	Waiting proof of completion
Rohasmizah Hashim (F,39)	Universiti Teknologi Mara/ Malaysia	UPM/PhD, agronomy/ Development of Pectin-based Edible Coating Enriched with Virgin Coconut Oil (VCO) and Its Potential to Inhibit Fusarium oxysporum on Tomato Fruit (Solanum lycopersicum)	1 September 2019 – 31 July 2022
Noor Azrimi Umor (M,39)	Mara University of Technology/ Malaysia	UPM/ PhD, microbiology/ Oil Palm Empty Fruit Bunch (OPEFB) as a Media for Volvariella volvacea Cultivation and Feedstock of Anaerobic Digestion: A Symbiotic Correlation Analysis	1 September 2018 – 31 August 2021
Siti Amni Binti Ismail (F,38)	Universiti Teknologi MARA/Malaysia	UPM/PhD, agricultural mechanization and automation/ Modelling and Analysis of Energy Utilization and Environmental Impact in Oil Palm Plantation	1 September 2017 – 31 August 2021
Hnin Su San (F,29)	Yezin Agricultural University/ Myanmar	UPLB/MS, agricultural economics/ Investigating the Labour Migration Patterns and Gender Perspective on Rubber Plantation	1 August 2019 – 31 December 2021
Myint Myat Moe (F,33)	Yezin Agricultural University/ Myanmar	KU/PhD, agricultural and resource economics/ Environmental Efficiency and Farmers' Preferences on Sustainable Agricultural Practices of Rice Production in Bago Region, Myanmar	1 August 2019 – 31 July 2022
Khin Pyone Nwe (F,37)	Ministry of Agriculture, Livestock, and Irrigation/ Myanmar	UPLB/PhD, soil science/ Influence of Soil and Foliar Application of Potassium on Fruit Yield and Quality of Tomato Under Salinity	1 August 2018 – 31 December 2021
Zaw Win Kyaw (M,34)	Ministry of Agriculture, Livestock, and Irrigation/ Myanmar	UPLB/MS, extension education/ Impact of "Farmland Law" and "Vacant, Fallow and Virgin Land Law" on Upland Tenure Security in Upland Region, Myanmar	1 August 2018 – 31 August 2021
Ye Tun (M,44)	Ministry of Agriculture, Livestock and Irrigation/ Myanmar	UPLB/PhD, agricultural economics/ Impact of Farmland Registration and Certification on Farm-Households in the Central Dry Zone of Myanmar	1 August 2017 – 31 December 2021
Maria Cristina P. Pammit (F,29)	Mariano Marcos State University/ Philippines	UPLB/MS, agricultural economics/Farmers to Markets Link Through Growers Organization: Onion Supply Chain Design for Ilocos Norte, Philippines	1 August 2019 – 31 July 2022
Michael Noel R. Bonghanoy (M,37)	University of the Philippines Mindanao/ Philippines	UPLB/MS, development communication/ Exploring the Communicative Ecology of a Lumad (Indigenous) Community in Mindanao: Towards Improving Agricultural Communication Practices	1 August 2020 – 31 July 2022
Shirly C. Serrano (F,46)	Central Luzon State University/Philippines	KU/PhD, environmental science/ Climate Change Vulnerability Assessment for the Coastal Ecosystems and Communities in Selected Coastal Municipalities in the Philippines	1 August 2019 – 31 December 2021
Karen S. Bautista (F,42)	Bureau of Soils and Water Management/ Philippines	UPLB/PhD, agronomy/ Quantification of Physiological Responses and Antioxidant Content of Sweet Pepper Accessions to Heat and Water Stress	1 August 2019 – 31 July 2022
Jan Danica S. Asma (F,35)	UPLB/ Philippines	UPLB/PhD, development studies/ Adoption of Standards for Improved Production and Marketability of Duck Egg Products	1 August 2019 – 31 December 2021
Medino Gedeun N. Yebron, Jr. (M,42)	UPLB/ Philippines	UPLB/PhD, animal science/ Breeding of Paroakan Native Chicken for Sustainable Development	1 August 2019 – 31 July 2022
Judith O. Jimena (F,34)	Central Bicol State University of Agriculture/ Philippines	UPLB/PhD, extension education/ Resilience is the New Green: An Evaluation of Climate Adaptability Techniques and Strategies of Disaster- Prone Areas in the Bicol Region	1 August 2019 – 31 December 2021
Justine Louise R. Repalam (F,28)	Department of Environment and Natural Resources/ Philippines	UPLB/MS, environmental science/ Phytoremediation Potential of Dendrocalamus asper in the Rehabilitation of a Mined-out Site in Carrascal, Surigao del Sur	1 August 2018 – 30 June 2021
Sheera Mae N. Diango (F,26)	Mindanao State University/ Philippines	UPLB/MS, agricultural economics/ Value Chain Analysis of Rice in Some Selected Areas in Mindanao, Visayas, and Luzon	1 August 2019 – 31 July 2022

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
Ma. Genesis C. Reyes (F,34)	AsiaDHRRA/ Philippines	UPLB/MS, rural sociology/ Inclusion of Smallholders in the value chain/Agribusiness Commodity Systems thru Agri-cooperatives in the Context of ASEAN Economic Integration	1 August 2019 – 31 August 2021
Maria Evic C. Panganiban (F,33)	Department of Agriculture Central Office/ Philippines	UPLB/MS, agricultural engineering/ Comparative Analysis Between Fossil Fueled Pump Irrigation and Solar-powered Pump Irrigation System for Rice Production in the Philippines	1 August 2018 – 31 July 2021
Jurhamid C. Imlan (M,44)	College of Agriculture University of Southern Mindanao/ Philippines	UPM/PhD, animal production/ Effects of Different Slaughtering Methods on Welfare and Beef Quality	UPM will provide proof of completion documents as soon as restrictions in MCO allows them to go to the university
Bathsheba P. Aparilla (F,47)	Department of Agriculture/ Philippines	UPLB/MS, soil science/ The State of Soil Moisture and Soil Temperature Regimes in Major Lowland Soils in the Philippines	1 June 2010 – 31 March 2015
Issaree Supnui (F,39)	Kasetsart University/ Thailand	UPLB/PhD, extension education/ Sufficiency Economy in Rural Thailand: Lifelong learning Knowledge	1 August 2019 – 31 July 2022
Chanoknan Srilapat (F,36)	Sakon Nakhon Rajabhat University/ Thailand	UPM/PhD, agribusiness/ Development and Management of Supply Chain for Hang-rice Production in Sakon Nakhon Province, Northeast Thailand	1 August 2018 – 31 July 2021
Praiyanut Noitubtim (M,36)	Department of Agricultural Extension/ Thailand	UPLB/PhD, entomology/ Efficacy of Entomopathogenic Nematodes Against the Coconut Rhinoceros Beetle Larva, <i>Oryctes rhinoceros</i> MacLeay (Coleoptera: Scarabaeidae) in Nakhon Si Thammarat Province, Thailand	1 August 2018 – 31 December 2021
Komsan Tantichukiad (M,34)	Udonthani Rajabhat University/ Thailand	UPM/PhD, mechanical engineering/ Performance Investigation of Comined Delta-blade Shaped Darrieus with Savonius Hydrokinetic Rotors and Its Implementation in Agricultural Rural Areas	1 March 2018 – 28 February 2022
Rattiporn Arphavasin (F,38)	Samutsakhon Provincial Agricultural Office/ Thailand	UPLB/ MS, extension education/ Factors Involved with Adoption on Good Agricultural Practices of Coconut Growers in Samutsakhon Province, Thailand	1 August 2017 – 30 June 2021
Kietnapa Wongchanta (F,38)	Samutsakhon Provincial Agricultural Extension Office/ Thailand	UPLB/PhD, extension education/ Aromatic Coconut Supply Chain Management: Case Study on Coconut Big Farm in Banphaeo District, Samut Sakhon Province, Thailand	1 August 2017 – 31 July 2021
Krisdakorn Wongwai (M,39)	Udon Thani Rajabhat University/ Thailand	UPM/PhD, agribusiness/ Small Farmers' Motivation to Participate in Contract Farming with Sugarcane Loading Station in Thailand	1 February 2016 – 31 August 2021
Natcha Leevisitpattana (F,45)	Phitsanulok Provincial Agricultural Extension Office, Department of Agricultural Extension, Ministry of Agriculture and Cooperatives (MOAC)/ Thailand	UPM/PhD, environmental policy and governance/ Decision-making and Agricultural Public Policy for Carbon Credit Supporting	1 September 2011 – 28 February 2021
Pok Wudtisawad (F,46)	Department of Agricultural Extension/ Thailand	KU/PhD, agricultural and resource economics/ Sustainable Management of Wild Bamboo in Non Province, Thailand	preparing articles for publication
Joana Paula Gerabella Da Costa Moniz (F,33)	University da Paz/ Timor-Leste	IPB/MS, animal science production and technology/ Factors Impacting upon Post-Harvest Maize Production Losses in Timor-Leste	1 August 2019 – 31 December 2021
Agostinha Soares Amaral (F,38)	Timor-Leste	UPLB/MS, animal science/ Nutrition of Pigs in Timor-Leste	1 August 2019 – 31 December 2021
Simao Margono Belo (M,44)	Ministry of Agriculture and Fisheries/ Timor- Leste	UPLB/PhD, community development/ Effect of <i>Tithonia diversifolia</i> Leaf Extract on Seed Viability and Yield of Rice ( <i>Oryza sativa</i> L.)	1 August 2019 – 31 July 2022
Manuel Da Costa (M,44)	Directorate Quarantine and Biosecurity/ Timor- Leste	IPB/ PhD, veterinary public health/ Contamination of Bacteria Salmonella as well as the Identification of Antibiotic Resistance in Sold Chicken Meat at the Dili City Market of Timor-Leste	1 August 2019 – 31 July 2022

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
Nelson Aniceto da Costa (M,38)	Ministry of Agriculture and Fisheries/ Timor-Leste	UPLB/MS, animal science/ Native Pig Production and Community Development in Selected Villages in Baucau Municipality, Timor-Leste	1 August 2019 – 30 September 2021
Xisto Martins (M,52)	Resilience Agriculture and Economic through Biodiversity in Action (RAEBIA)/ Timor-Leste	UPLB/PhD, forestry/ Assessing the Effectiveness of the Community Based Natural Resource Management (CB-NRM) Approach Relative to Agro-Forestry and Landscape Management Programs	1 August 2018 – 31 December 2021
Natalino De Araujo (M,45)	Universidade Nacional Timor Lorosae/ Timor- Leste	UPLB/PhD, forestry/ Carbon Stock Estimation of Coffea arabica L. Agroforestry Farms in Ermera District, Timor-Leste	1 August 2017 – 31 December 2021
Luis Manuel Branco (F,46)	National University of Timor Lorosae/ Timor- Leste	IPB/PhD, seed science and technology/ Agro-morphological Evaluation and Seed Production Input Factor and Detection of the Mechanism of After Ripening Landrace Local Rice Seed	1 September 2016 – 31 December 2021
Carlos Amaral (M,43)	National University of Timor Lorosae / Timor- Leste	UPLB/MS, agricultural economics/ Profit Efficiency of Rice Farming and Its Determinants Among Farmers in Bobonaro District, Timor-Leste	1 August 2014 – 31 December 2021
Nguyen Xuan Diep (M,38)	Thai Nguyen University-University of Economics and Business Administration/ Vietnam	UPLB/PhD, agricultural economics/ Willingness to Pay for Water Quality Improvement in Handicraft Villages of Hungyen Province	1 August 2019 – 31 July 2022
Trang Thi My Duyen (F,42)	An Giang University/ Vietnam	KU/PhD, Agricultural and Resource Economics/ Sugar Palm Trees; Climate-Adapted and Integrated Agricultural for Sustainable Livelihood and Ecosystem Conservation in the Mekong Delta, Vietnam	1 August 2019 – 31 July 2022
Nguyen Tien Phong (M,40)	The North-Eastern College of Technology Agriculture and Forestry/ Vietnam	UPLB/PhD, forestry/ Researching on Ecological and Regenerative Fundamentals of some Indigenous Trees in Cuc Phuong National Park to Propose Some Appropriate Solutions in Recovering the Poor Forests in Vietnam	1 August 2019 – 31 July 2022
Nguyen Thi Quynh (F,34)	Thai Nguyen University of Agriculture and Forestry/ Vietnam	UPLB/PhD, agronomy/ Heritability of Drought Tolerant Traits of Soybean	1 August 2019 – 31 July 2022
Hoang Le Huong (F,37)	Vietnam National University of Agriculture/ Vietnam	UPLB/PhD, forestry/ Study of Climate Change Impacts on Drought and Adaptation Strategies in Binh Thuan Province, Vietnam	1 January 2019 – 31 December 2021
Nguyen Nam Giang (M,32)	Agricultural Genetics Institute/ Vietnam	UPLB, PhD, agricultural economics/ The Sustainable Development of Edible Mushroom Production in the Red River Delta, Vietnam	1 January 2019 – 31 December 2021
Tran Thanh Liem (M,36)	Vietnam National University of Forestry/ Vietnam	UPLB/PhD, agricultural economics/ Acacia Hybrids Supply Chain for Productive Afforestation in the Northern of Vietnam	1 August 2018 – 31 July 2021
Nguyen Thanh Trung (M,37)	Vietnam National University of Agriculture/ Vietnam	KU/PhD, tropical agriculture/ Enhancing Soil Fertility and Yield of Cassava and Corn Using Legume-based Intercropping in Mountainous Areas of Vietnam	Thesis defense completed; one more paper to be published in order to graduate
<b>Completed Scholars (20)</b>			
Jossie Intan Cahyani (F,39)	Ministry of Agriculture/ Indonesia	UGM/MS, veterinary sciences/ Comparative Efficacy and Potency of Bivalent Inactivated Vaccine Emulsified Containing Newcastle Disease Virus and Avian Influenza Virus H9N2 (Sidrap Isolate) with Two Different Oil Adjuvants Against Virulent Newcastle Disease Virus	June 2020
Erna Yunita Saiful Bahri (F,34)	Indonesian Oil Palm Research Institute/ Indonesia	UGM/MS, agronomy/ Effects of Seed Storage Period on the Deterioration and Viability of Oil Palm Backcross 1 (BC1 F1)	June 2020
Guilhermino Da Cruz (M,49)	National University of Timor Lorosae / Timor-Leste	UPLB/PhD, agricultural economics/ Determinants of Household Distribution and Poverty Situation Among Rice and Coffee Farming Households in Timor-Leste	June 2020

<b>Name (Gender, Age)</b>	<b>Institution/Country</b>	<b>Study Post /Degree Program/ Title of Thesis or Dissertation</b>	<b>Date Awarded/ Scholarship Duration/ Date Completed</b>
Sandy Ling Choo (F,31)	Agriculture Department/ Malaysia	UPLB/MS, veterinary medicine/ Clinicopathologic Assessment of Select Stranded Marine Mammals in the Philippines	July 2020
Rojino da Cunha (M,45)	Ministry of Agriculture and Fisheries/ Timor-Leste	IPB/MS, agronomy and horticulture/ Effect of Planting Spacing and Mulch Thickness on Growth and Yield of Upland Rice Variety	August 2020
Bayu Rizky Pratama (M,28)	Muhadi Setiabudi University/ Indonesia	KU/MS, agricultural and resource economics/ Analysis of the Factors Determining Farmers' Adoption and Strategies for the Development for "Single Origin Processing Scheme" by Coffee Farmers	September 2020
Ami Teja Rakhmi (F,37)	Indonesian Center for Rice Research/ Indonesia	IPB/MS, food science/ Rice Glycemic Index Categorization Based on Physical, Chemical, and Sensory Characteristics of Various Rice Varieties	December 2020
Tobias Moniz Vicente (M,38)	Ministry of Agriculture and Fisheries/ Timor-Leste	IPB/MS, agronomy and horticulture/ Plant Genetic Resources Conservation and Management of Irrigated Rice	January 2021
Juliana de Jesus Maia (F,40)	Ministry of Agriculture and Fisheries/ Timor-Leste	IPB/MS, Seed Science and Technology/ Effect of Some Packaging and Storage Periods on the Viability Testing of Soybean Seeds	February 2021
Khorn Norin (M,30)	Ministry of Agriculture/ Cambodia	UPM/MS, forest management and ecosystem sciences/ Geospatial Analysis of Land Use/land Cover Change and Its Effect on Runoff in Prek Thnot Watershed in Cambodia	March 2021
Yamin Yaddi (M,36)	Haluleo University/ Indonesia	IPB/MS, Medical Microbiology/ Detection of Antibiotic Resistance Encoding Genes in Escherichia Coli Isolated from Cats and Environment in Animal Clinics in Bogor City	April 2021
Zulias Mardinata Zulkarnaini (M,41)	Rian Islamic University/ Indonesia	UPM/PhD, agronomy/ Growth, Physiological Changes, Yield, and Quality of Fig (Ficus carica. L.) as Influenced by CO2 Enhancer and Brassinolide	April 2021
Dang Nam Phuong (M,26)	Vietnam National University of Agriculture/ Vietnam	UPLB/MS, agricultural economics/ Strengthen Adaptive Capacity of Farmers to Climate Change in Hai Hau District, Nam Dinh Province	April 2021
Wannasiri Wannasupchue (F,35)	Udonthani Rajabhat University/ Thailand	UPM/PhD, food management/ Readiness, Challenges and Motivation for Certification Among Halal Restaurants in Northeastern Thailand	April 2021
Divo Dharma Silalahi (M,33)	SMART Research Institute/ Indonesia	UPM/PhD, applied and computational statistics/ Development of Robust Procedures for Partial Least Square Regression with Application to Near Infrared Spectral Data	June 2021
Khin Thandar (F,36)	Department of Agricultura Research/ Myanmar	KU/MS, Horticulture/ Molecular Characterization and Evaluation of Myanmar Tomato (Lycopersicon esculentum Mill.) Landraces for Heat Tolerance	June 2021
Charlie B. Batin (M,41)	Mariano Marcos State University/ Philippines	UPLB/PhD, Forestry/ Effects of Thinning and Fertilization on the Growth, Yield, Biomass, Soil and Soil-Water Properties in a Bamboo-Agricultural Crop Agroforestry Systems	June 2021
Teerapong Wongsathan (M,36)	Ministry of Agriculture and Cooperatives/ Thailand	UPLB/PhD, extension education/ Using Social Media for Farming in Thailand	June 2021
Leonel da Costa Xavier (M,46)	Ministry of Education/ Timor-Leste	UPLB/PhD, community development/ Human Resources Development at Ministry of Education Timor-Leste: Preparing for Complex Futures	June 2021
Agostinho Da Cunha Moniz (M,53)	National University of Timor Lorosae/ Timor- Leste	UPLB/PhD, agronomy/ Comparative Productivity, Energy and Resource Use Efficiencies of Food Caloric Energy Sources in Maliana, Timor-Leste	June 2021
<b>Others (4)</b>			
Khin Thuzar Nwe (F)	Department of Agricultural Research/ Myanmar	UPLB/PhD, soil science/ Greenhouse Gas (GHG) Mitigation in Irrigated Lowland Rice Ecosystem Through the Adoption of Water Saving Irrigation Technique and Charcoal Rice Husk Amendment	Did not push through with the scholarship

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
Dorilanda Da Costa Lopes (F)	Ministry of Agriculture and Fisheries/ Timor-Leste	IPB/MS, seed science and technology/ The Effect of Seed Moisture Content and Seed Size on the Storability and Viability of Maize Seeds	Did not push through with the scholarship
Sar Pisey (F)	Royal University of Agriculture/ Cambodia	KU/MS in Management/ Study on Value Chains for Improving Agribusiness Development Model of Rural Farmers in Cambodia	Scholarship offer lapsed
Ajaree Sikhandasamita (F)	Department of Agricultural Extension, Nonthaburi Provincial Agricultural Extension Office/ Thailand	UPLB/PhD, extension education/ Factors Affecting Adoption of Good Agricultural Practices of Vegetable Growers: A Case Study of Nonthaburi Province, Thailand	Scholarship terminated due to health issues

\*M-male, F-female

\*\*IPB – Institute Pertanian Bogor, UB – Universitas Brawijaya, KU – Kasetsart University, UPLB – University of the Philippines Los Baños, UPM – Universiti Putra Malaysia, UGM – Universitas Gadjah Mada

#### Annex 4. New, Ongoing, and Completed SEARCA PhD Research Scholars, FY 2020/2021

Name (Gender)	Institution/Country	Study Post/Field of Study	Title of Research
<b>Ongoing Scholars (28)</b>			
Rakhmad Perkasa Harahap (M)	Tanjung Pura University/ Indonesia	IPB/ Animal Nutrition and Feed Science/ November 2019	Utilization Chitin and Chitosan from Shrimp as Feed Additive to Reduce Methane Emission and Improve Silage Quality
Cho Cho Aung (F)	Ministry of Agriculture, Livestock and Irrigation/ Myanmar	Yezin Agricultural University/ Agronomy/ November 2019	Screening of Anaerobic Germination Tolerance Rice ( <i>Oryza sativa</i> L.) Genotypes and Effect of Seed Priming for Seedling Establishment
Haerold Dean Z. Layaoen (M)	University of the Philippines Los Baños/ Philippines	RMIT University/ Supply Chain and Logistics/ November 2019	The Greenness of Logistics Practices: A Study of the Antecedents and the Triple Bottom Line Outcomes
Nasrudin Abdulkadir Buisan (M)	Cotabato City State Polytechnic College/ Philippines	Mindanao State University/ Sustainable Development Studies, Major in Sustainable Economic Development/ November 2019	The Marshland Farming System and Its Implications to Sustain Livelihoods and the Environment in Marshland Local Communities: The Case of Ligawasan Marsh, Maguindanao
Kamla Zyra G. Lavadia (F)	University of the Philippines Los Baños/ Philippines	UPLB/ Development Communication	Communication Initiatives and Socio-cultural Construction of Disaster Risk Among Stakeholders in a Coastal Community in Infanta, Quezon, Philippines
Bui Quang Van (M)	Vietnam National University of Agriculture/ Vietnam	Vietnam National University of Agriculture/ Economics Development	Analysis of Smallholders Beef Cattle Value Chain in Dien Bien province, Vietnam
Mohamad Arif (M)	Indonesian Oil Palm Research Institute/ Indonesia	IPB/ Seed Science and Technology	Effects of Seed Physiological Maturity, Method of Dormancy Breaking, Storage Environment Factor, and Invigoration on Viability of Oil Palm ( <i>Elaeis guineensis</i> L. Jacq) Seeds
Agustine Restiyana (F)	Universitas Gadjah Mada/ Indonesia	UGM/ Animal Science (Livestock Social Economics)	Strategy of Ongole Grade Cattle Business Development in Central Java, Indonesia
Yayat Nurhidayat (M)	Quality and Health, Safety, Environmental Protection (QHSE)/ Indonesia	UPM/ Chemical Engineering	Surface Functionalized-Oil Palm Empty Fruit Bunches (OPEFB) Derived Nanocrystal Cellulose (NCC) Membrane: Fabrication and Performance Evaluation for Wastewater Treatment
Bogarth Kalikitnggamu Watuwaya (M)	Kupang Agricultural Vocational School, Ministry of Agriculture/ Indonesia	Hasanuddin University, Makassar/ Animal Science	Spatial Analysis of Grazing Land for the Development of <i>Leucaena leucocephala</i> cv. Tarramba as Beef Cattle Feed in East Sumba Regency, East Nusa Tenggara Province, Indonesia

<b>Name (Gender)</b>	<b>Institution/Country</b>	<b>Study Post/Field of Study</b>	<b>Title of Research</b>
Ginas Aurea Anduyan Villagonzalo (F)	Visayas State University/ Philippines	UPLB/ Animal Science-Dairy Technology	Occurrence of Aflatoxin M1, Heavy Metals, and Pesticide Residues in Cow's Raw Milk in Region IV-A, Philippines
Melanie Henson Narciso (F)	N/A	University of Georgia/Cultural Anthropology	Persistence of Pampango Rice-Based Fermentation Traditions in the Context of the Changing Rice Landscape in the Philippines
Risa Nursanty (F)	Universitas of Syiah Kuala/ Indonesia	UPM/ Food Science	Antibacterial Activity, Phytochemistry, and Toxicity Analyses of <i>Aleuritus moluccana</i> . L and Its Application in Food System
Banjie G. Sarmiento (F)	N/A	UPLB/ Environmental Science	Climate-Resilience of Coconut-based Agroecosystems in Luzon, Philippines
Darlene P. Lovina (F)	University of the Philippines Los Baños	UPLB/ Environmental Science	Assessment of Resilience in Tropical Ecosystems Using Socio-ecological Approach: A Case in Mount Makiling Forest Reserve, Laguna, Philippines
Khairun Najihah Sabri (F)	Food Safety Malaysia	UPM/ Food Service Management	Development of a Mindset Model for Food-based Social Entrepreneurs: Towards Sustainable Local Food Security and Social Well-being
Nguyen Quang Minh (M)	Can Tho University/ Vietnam	International Institute of Social Studies (ISS) Erasmus University Rotterdam/ Climate change mitigation policy and environmental justice	Mekong Delta before the Flood: Climate Change, Hydro-politics and the Vietnamese Approach to Climate Resilient Development
Le Ngoc Danh (M)	Kien Giang University/ Vietnam	Can Tho University/ Agricultural Economy	Economic Analysis of Supply Chain of Mud Crab in the Mekong Delta, Vietnam
Eduardo F. Roquino (M)	Philippines	UPLB/Environmental Science	Is the Rain Mountain Running Out of Water? A Hydrosocial Analysis of Water Scarcity and Water Security in Mt. Banahaw
Nurazwin Zulkifli (F)	Universiti Putra Malaysia/Malaysia	UPM/ Agriculture Process Engineering	Simulation Modelling in Mechanical Responses in Papaya
Racquel D. Santiago-Arenas (F)	Mindanao State University/ Philippines	Asian Institute of Technology/ Agricultural Systems and Engineering	Effect of Nitrogen and Crop Management Strategies on Rice Under Water-saving Cultivation Techniques
Shahida MD Nor (F)	Geomatika University College/ Malaysia	UPM/ Horticulture	Quantification of Macronutrients and Phytochemicals in Passion Fruit Cultivated in Malaysia
Rufo Gil Z. Albor (M)	UPLB/Philippines	UPLB/ Extension Education	Local Government Extension Programs and Resilience Building Among Selected Farmer Households in Laguna, Philippines
Kieu Thi Huyen (F)	Hue University of Agriculture and Forestry/ Vietnam	Hue University of Agriculture and Forestry/ Aquaculture	Research on Characteristics of Distribution, Morphology, and Genetic Diversity of Eel in Thua Thien Hue
Emmy Farha binti Alias (F)	UPM/ Malaysia	University of Bergen, Norway/ System Dynamics	Adoption and Diffusion of Sustainable Paddy Production System in Malaysia
Mitchiko A. Lopez (F)	UP Mindanao/ Philippines	UPLB/ Development Studies	Mainstreaming Gender in Cocoa Agricultural Value Chain in Davao City, Southern Philippines
Sarayut Trirat(M)	Department of Agronomy, Maejo University/ Thailand	Central Luzon State University/ Plant Breeding	Genetic Potential of Selected Aromatic Rice Varieties as Combiners, Restorers, and Maintainers for Hybrid Development
Hadi Suprpto (M)	Mulawarman University/ Indonesia	Universitas Brawijaya/ Agroindustrial Technology	Optimization of Smoked Method using Artificial Neural Network and Response Surface Methodology Model to Improve Protein Quality of Smoked Fish
<b>Completed Scholars (7)</b>			
Baida Soraya (F)	Universitas Darma Agung/ Indonesia	IPB/ Agricultural Economics	The Impact of ASEAN Economic Community (AEC) Full Implementation to the Food Security, and Rural Development in the Province of Sumatera Utara, Indonesia: Estimation for 2016 and the Projection Until 2050
Mari Rowena C. Tanquilut (F)	Pampanga State Agricultural University/ Philippines	UPLB/ Agricultural Engineering	Optimization of Bio-oil Production from Pigeonpea Wood Using Response Surface Methodology

Name (Gender)	Institution/Country	Study Post/Field of Study	Title of Research
Quang Dung Truong (M)	Hue University of Economics/ Vietnam	University of Tasmania, Australia/ Entrepreneurship and Innovation in Agriculture	Entrepreneurial Learning through Value Chain Collaboration: A Study of Smallholder Beef Cattle Value Chains in Central Highland Vietnam
Prasetyo Nugroho (M)	Department of Animal Husbandry and Animal Health/ Indonesia	IPB/ Animal Nutrition and Feed Science	Flushing with Different Fatty Acid Profiles in Ration of Peranakan Etawah Doe on Reproductive Performance and Kid Survival
Flores Jabez Joshua Mabalay (M)	Philippines	UPLB/ Environmental Science	Designing Food Security: Applications of Permaculture in Sustainable Agriculture—Case Studies in the Philippines
Flordeliz Balaod Dacuyan (F)	UP Visayas/ Philippines	UPLB/ Development Studies	Social Enterprises in Post-Disaster Agricultural Communities in Leyte and Eastern Samar, Philippines: A Cross Sector Social Issue Partnerships (CSSP) Analysis
Florence L. Zapico (F)	Mindanao State University/ Philippines	UPLB/ Agronomy	Sarangani Upland Rice-based Farming Systems: Threats, Genetic Diversity Status and Conservation Initiatives

\*M-male, F-female

\*\*IPB – Institute Pertanian Bogor, UPLB – University of the Philippines Los Baños, UPM – Universiti Putra Malaysia, UGM – Universitas Gadjah Mada

#### Annex 5. Dual Degree Scholars of SEARCA, FY 2020/2021

Name (Gender, Age)	Institution/Country	Study Post /Degree Program/ Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
<b>Ongoing Scholars (5)</b>			
Nguyen Van Hieu (M,33)	Cuu Long Delta Rice Research Institute/ Vietnam	UPLB-Montpellier/PhD, plant breeding/ Integration of Genetic Resources from Gene Bank into Breeding Program and Optimization of Their Use for Genetic Improvement: A Case Study on Rice	1 January 2020 – 31 December 2022
Julia Ng Su Chen (F,44)	World Wide Fund for Nature/ Malaysia	UPM-Montpellier/PhD, bioresource management/ Advancing on the Conceptualization of a Theory of Change for Landscape Approaches to Biodiversity Conservation, The Case of Sabah in Malaysia	1 September 2019 – 31 August 2022
Yao Tze Leong (M,39)	Forest Research Institute Malaysia/ Malaysia	UPM-Montpellier/PhD, forest management and ecosystem sciences/ Ensuring the Future of Perennial Crops in Southeast Asia in a Context of Global Change: Case of Garcinia Fruit Tree Species	1 September 2019 – 31 August 2022
Junaidi (M,38)	Indonesian Rubber Research Institute/ Indonesia	UGM-Montpellier/PhD, Biological Sciences/ Biochemical, Near-infrared spectroscopy Analysis of Reactive Oxygen Species-scavenging Systems in Latex of Hevea brasiliensis	January 2019 – December 2021
Nur Hidayahanum Hamid (F)	Universiti Putra Malaysia/ Malaysia	UPM-KU/PhD, veterinary medicine/ Assessment of Bacteriocin-Producing Lactic Acid Bacteria from Vegetables Waste for Growth Promotion and Protection Against Aquatic Pathogens in Juvenile African Catfish (Clarias gariepinus)	August 2017 – September 2018

\*M-male, F-female

\*\*UPLB – University of the Philippines Los Baños, Montpellier - Montpellier SupAgro, UPM – Universiti Putra Malaysia, UGM – Universitas Gadjah Mada, KU – Kasetsart University

## Annex 6. SEARCA Academic Bridging Scholars, FY 2020/2021

Name (Gender)	Institution/Country	Type of Academic Bridging Program
Pengly Koun (M)	Royal University of Agriculture/ Cambodia	DAAD Summer School: Programme of the Project Development for Knowledge Transfer Digital Training Course 2020 organized by Leipzig University funded by DAAD
Edchelle S. Flores (F)	Philippine Institute of Volcanology and Seismology/ Philippines	First Phase: 31 August – 31 September 2020 via online
Ines Soares Pereira (F)	Universidade Oriental Timor Lorosae/ Timor-Leste	DAAD Summer School: "From Data to Decision: Assessment of the Water-Energy-Food (WEF) Security Nexus" organized by TH Köln (University of Applied Sciences) in Cologne, Germany funded by DAAD
		First phase: 17 August to 11 September 2020 via online

\*M-male, F-female

\*\*DAAD – German Academic Exchange Service

## Annex 7. University Consortium Grants, FY 2020/2021

Name (Gender)	Country/ Institution	Study Post/ Degree Program	Thesis Title	Date Awarded/ Completion Date
<b>UC Student Thesis Grant and Support to Research Activities</b>				
<b>New Grantees (6)</b>				
Elemosho Ridwan (M)	Nigeria	IPB	Extracellular Overexpression of T1.2 Lipase in Bacillus subtilis for Biodiesel Production	30 September 2020
Farahana Nabilah Binti Zainal A'bidin (F)	Malaysian	UPM	Development and Performance Evaluation of a Banana Peeling Machine for Use in Small Scale Industry	8 October 2020
Nurul Ain Hamdan (F)	Malaysian	UPM	Protected Area Resilient to Climate Change in Gunung Mulu National Park, a Totally Protected Area (TPA) in Sarawak	8 October 2020
Courage Yaw Kraah (M)	Ghanaian	IPB	Evaluating the Effectiveness of Liquid Smoke in Controlling Storage Pest (Araecerus fasciculatus) of Cocoa Beans	16 October 2020
Afdi Pratama (M)	Indonesian	IPB	Methane and Carbon Dioxide Production in Dairy Cattle Feces Given Different Forage Treatments	10 December 2020
Abdul Malik Bin Abdul Razak (M)	Malaysian	UPM	Characterization of Carotenoids from Pantoea ananatis and Its Potential as Biological Control Agent Against Burkholderia glumae	11 June 2021
<b>Ongoing Grantees (10)</b>				
Hapsah (F)	Indonesia	IPB	Secondary Metabolites Induction of Stevioside and Rebaudioside in Stevia rebaudiana Bertoni Using In Vitro Media Modification	1 October 2019
Nur Hafizah Binti Mustaffer (F)	Malaysia	UPM	Physicochemical Characteristics, Microbiological Analysis and Biological Activities of Fermented Kepayang (Pangium edule Reinw.) Seeds	20 February 2020
Pern Yu Cong (M)	Malaysia	UPM	Cross-species Amplification of Aquilaria Microsatellites across Thirteen Endangered Agarwood-producing Species of the Tribe Aquilariaceae from the Indomalesia Region	1 October 2019
Siti Shazana binti Mohd Ali Raini (F)	Malaysia	UPM	Application of Basalt in Combination with Biochar to Alleviate Soil Acidity A1 and Fe Toxicity for Growing Rice on an Acid Sulfate Soil	1 October 2019
Sesmita Sari (F)	Indonesia	UB	Analysis of Consumer Preference and Factor that Influence Marketing Mix Using Structural Equation Model (SEM)-Case Study: Meatball at Malang City	4 November 2019
Stashia Eleaness Rosland Abel (F)	Malaysia	UPM	Formulation of Fiber Drink from Gum Arabic Powder	15 January 2020

Name (Gender)	Country/ Institution	Study Post/ Degree Program	Thesis Title	Date Awarded/ Completion Date
Nicci Rosietess E. Madarcos (F)	Philippines	UPLB	Taxonomic Assessment of Macroalgae from the Intertidals of Selected Islands in Antique, Philippines Using Integrative Approach	24 February 2020
Siti Aisyah Ruslan (F)	Malaysia	UPM	Development of Geospatial Model for Elucidation of Metisa Plana Landscape Ecology in Malaysia's Microclimate and Prediction of Its Prevalence	15 October 2018
Mardhati Hazirah Hassan (F)	Malaysia	UPM	Selected Coated Urea Assessment on Nitrogen-Use Efficiency (NUE) and Growth of Oil Palm Seedlings	15 October 2018
Arjay I. Lamis (M)	Philippines	UPLB	Effects of Commercial Feed Containing Cadmium on Haematology, Plasma Metallothionein, Gastrointestinal Tract of Philippine Native Pigs ( <i>Sus scrofa</i> L.) and the Potential Mitigation by <i>Trichanthera</i> ( <i>Trichanthera gigantea</i> (Humb. & Bonpl.) Nees)	17 December 2018
<b>Completed Grantees (11)</b>				
Muhammad Sherifdeen (M)	Indonesia	IPB	Financing Adaptation to Climate Change: Lessons from the Indonesian Climate Change Trust Fund (ICCTF)	October 2020
Joy Eloiza M. Rosales (F)	Philippines	UPLB	Synthesis and Evaluation of Nitrogen and Phosphorous-loaded Surface-modified Zeolites as Slow-release Fertilizer	July 2020
Andraeh Kate M. Orlina (F)	Philippines	UPLB	The Association of Soil Microbial Diversity and Primary Productivity in Various Ecosystems in Mount Makiling Forest Reserve	July 2020
Molla Gebreyohannes Hailu (M)	Ethiopia	IPB	Increasing Ploidy Level of Tawangmangu Baru Variety of Garlic ( <i>Allium sativum</i> L.) by Using Colchicine In Vitro in West Java, Indonesia	October 2020
Fazat Fairuzia (F)	Indonesian	IPB	In Vivo Polyploid Induction of Rubaru Cultivar Shallot ( <i>Allium cepa</i> L. var. <i>aggregatum</i> ) for Increasing Production Quality and Quantity	January 2021
Florence Roy P. Salvaña (M)	Filipino	UPLB	Toxicity of Selected Forages for Goats Raised in Halal Production System in SOCCSKSARGEN (Region XII)	June 2021
Roselle E. Madayag (F)	Filipino	UPLB	Synthesis of Oxidized Starch Hydrogels and Formulation of N and K Slow-release Fertilizers	June 2021
Anthony S. Agravante (M)	Filipino	UPLB	Effects of Temperature on the Development, Reproduction and Survival of <i>Spodoptera frugiperda</i> (J.E. Smith) (Lepidoptera: Noctuidae) on Host and Alternate Host Plants under Philippine Conditions	June 2021
Iris Joy V. Abrigo (F)	Filipino	UPLB	Development of Green Nanocomposite Sheet with Taro ( <i>Colocasia esculenta</i> L. Schott) Starch and an Extension Framework for Technology Adoption	June 2021
Florence Z. de Juan (M)	Filipino	UPLB	The Synergistic Anticancer Effects of Plant Mixtures ( <i>Lansium parasiticum</i> (Osbeck) K.C.Sanhi & Bennet, <i>Annona muricata</i> L., <i>Mangifera indica</i> L.) and Their Effect on the Glycosylation Profile of Human Lung Cancer Cells (A549)	June 2021
Nicole Maxine E. Apolinario (F)	Filipino	UPLB	"Assessment of Management Effectiveness of Hundred Islands National Park (HINP) in Alaminos City, Pangasinan, Philippines"	June 2021

Name (Gender)	Date of Award	Country/ Institution	Study Post/ Degree Program	Thesis/ Project Title or Purpose of Travel	Grant Duration
<b>UC Student Travel Grant for Courses/Workshops/Trainings</b>					
<b>New Grantee (1)</b>					
Bhakti Etza Setiani (F)	22 October 2020	Indonesia	UB/PhD in Food Science	3rd Asian Short Course on Biotechnology, Biosafety Regulation, and Communication (ASCA)	23-26 November 2020
<b>UC Student Travel Grant for Research</b>					
<b>Ongoing Grantee (1)</b>					
Katanyutita Damchuay (F)	6 September 2019	KU/Thailand	Tokyo NODAI/ Japan	Collaborative Research with Dr. Hiromasa Saitoh of Tokyo, NODAI on the Evaluation of the Differential Effect of ARV-Pik Alleles to Reduce the ROS Production in Rice	1 September 2019 - 31 January 2020
<b>UC Faculty Travel Grant for Conference</b>					
<b>New Grantee (1)</b>					
Paramyta Nila Permanasari (F)	22 October 2020	Indonesia	UB	3rd Asian Short Course on Biotechnology, Biosafety Regulation, and Communication (ASCA)	23-26 November 2020
<b>UC Faculty Travel Grant for Research</b>					
<b>Ongoing Grantee (1)</b>					
Leong Sui Sien (F)	10 Jan 20	UPM	UPLB	Characterization of fungal Beta-mannanase for Formation of Prebiotic Manno-oligosaccharides	27 April 2020 – 6 May 2020
<b>UC Seed Fund for Collaborative Research</b>					
<b>New Grantees (3)</b>					
Rozita Omar (F)	7 August 2020	UPM	UGM	Modified Chitosan as A Smart Biomaterial Produced from Crab Shell Waste via Combined Microwave-assisted and Subcritical Liquid (MWSL) Technique	1 October 2020 – 30 September 2021
Arini Wahyu Utami (F)	Arini Wahyu Utami	UGM	UPM	Feasibility Study on Developing Community-based Bioenergy Production from Cocoa Processing Waste	1 November 2020 – 31 October 2021
Latifah Abd Manaf (F)	6 April 2021	UPM	UGM	The Application of Multi Criteria Decision Making in Selecting the Best Food Waste Management Method	1 June 2021 – 31 May 2022
<b>Ongoing Grantees (4)</b>					
Muhammad Heikal bin Ismail (M)	22 October 2019	UPM	UGM	Investigating the Effect of Food and Agricultural Waste on the Quality of Biogas and Bio-Fertilizer	1 January – 31 December 2020
Ahmad Faizal Abdull Razis (M)	June 2020	UPM	UB	Authenticating Chicken Breeds Based on Fatty Acid Profiles, Bioactive Components and Whole Genome Sequencing	July 2020 – June 2021
Siti Mazlina Binti Mustapa Kamal (F)	June 2020	UPM	UB	Evaluation of antioxidant activity of phenolic compounds extracts from Piper betel leaves using pressurized hot water (PHW) treatment	July 2020 – June 2021

Name (Gender)	Date of Award	Country/Institution	Study Post/Degree Program	Thesis/ Project Title or Purpose of Travel	Grant Duration
Mami Irie (F)	June 2020	Tokyo NODAI	UPM	Food Waste Analysis by Using Fourth Industrial Revolution Tools	November 2020 – October 2021
Completed Grantee (1)					
Francis M. C. Sigit Setyabudi (M)	4 March 2020	UGM	KU	In Vitro Antagonistic Activity of Yeast Isolated from Wet Process Coffee Against <i>Aspergillus ochraceus</i> Growth and Ochratoxin A Production	1 January-31 August 2020 Extended until 31 March 2021

#### Annex 8. SEARCA Scholars under Institutional Development Assistance (IDA), FY 2020/2021

Name (Gender)	Institution/Country	Study Post /Degree Program/Title of Thesis or Dissertation	Date Awarded/ Scholarship Duration/ Date Completed
Ongoing Scholar (1)			
Thant Mon Paing (F,30)	Yezin Agricultural University/ Myanmar	UPLB/MS, animal science/ Nutritive Value of Corn Silage of Different Moisture Contents, Particle Sizes, Densities and with or without Inoculant	1 August 2019 – 31 July 2021

#### Annex 9. SEARCA Conferences, Roundtables, Other Forum, and Meetings, FY 2020/2021

Title of Activity	Venue and Date	No. of Participants	Activity Partner	Main Speaker or Presenter	Funding Source
<b>Regional Conferences, Roundtable, Other Forum, and Meetings (16)</b>					
2nd UC Faculty Forum with the theme "Resilient Food and Agricultural System for Accelerating Economic Recovery: Strategy and Implementation"	WebEx, hosted by National Taiwan University, Taipei, Taiwan; 9-10 November 2020	Total: 110 (46M, 64F) Philippines: 5 M, 15 F Indonesia: 18 M, 4 F Malaysia: 2 F Thailand: 4 M, 3 F Japan: 3 M, 2 F Taiwan: 16 M, 38 F	National Taiwan University	Dr. Marco Wopereis, WolrdVeg  Dr. Glenn B. Gregorio, Director, SEARCA  Faculty members from Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) member institutions	UC
Agricultural Transformation and Market Integration in the ASEAN Region (ATMI-ASEAN) Supervision Meeting	MS Teams, 17 November 2020	Total: 11 (6 M, 5 F) India: 3 M, 2 F Indonesia: 1 F Italy: 1 M, 1 F Philippines: 2 M, 1 F	IFAD IFPRI SEARCA	Dr. Fabrizio Bresciani, Lead Regional Economist, Asia and Pacific Division, International Fund for Agricultural Development (IFAD)  Dr. Shahidur Rashid, Director-South Asia, International Food Policy Research Institute (IFPRI)  Dr. Pedcris M. Orencio, Program Head, Research and Thought Leadership Department (RTL), SEARCA	

<b>Title of Activity</b>	<b>Venue and Date</b>	<b>No. of Participants</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Greener Greens Technical Forum	Zoom, 23 November 2020	Total: 1,087 (M-36%, F-64%) Philippines UK US Indonesia Myanmar Pakistan Italy Angola Thailand Papua New Guinea Peru	Biotechnology Coalition of the Philippines (BCP), CropLife Asia (CLA), PBS, International Rice Research Institute (IRRI), Department of Agriculture (DA)-PhilRice, DA-Biotechnology Program Office (BPO), UPLB-Institute of Plant Breeding (IPB), International Service for the Acquisition of Agri-biotech Applications (ISAAA)	Dr. Graham Brookes PG Economics  Dr. Ireneo Lit and Dr. Merdelyn Gaasi-Lit, University of the Philippines Los Baños (UPLB)	
3rd Asian Short Course on Agribiotechnology, Biosafety Regulation, and Communication	Zoom, 23-26 November 2020	Total: 42 (14 M, 28 F)  Australia: 3 Canada: 1 Brazil: 4 Japan: 1 Malaysia: 4 Hong Kong: 2 Mexico: 1 Indonesia: 8 Philippines: 6 Thailand: 7 Taiwan: 3 Myanmar: 2	ISAAA	Dr. Maribel Zaportez - Philippine Genome Center Agriculture Program, UPLB Dr. Rhodora R. Aldemita – Director, ISAAA SEAsiaCenter  Dr. Jose Botella - Professor of Plant Biotechnology, University of Queensland  Dr. Maria Genaleen Q. Diaz - Professor of Genetics Institute of Biological Sciences, UPLB  Dr. Martin Lema - Adjunct Professor, University of Quilmes, Argentina  Dr. Saturnina Halos – Chair, Biotech Advisory Team Department of Agriculture, Philippines  Dr. Ernelea Cao – Professor, Institute of Biology UP Diliman Phil Representative to CODEX  Dr. Glenn B. Gregorio Director, SEARCA  Dr. Gabriel Romero - Executive Director Philippine Seed Industry Association  Dr. Felicity Keiper Expert – Global Regulatory Affairs, Seeds and Traits Melbourne, Australia	

Title of Activity	Venue and Date	No. of Participants	Activity Partner	Main Speaker or Presenter	Funding Source
				Dr. Isabelle Coche - Secretariat, Outreach Network for Gene Drive Research, London, UK	
				Dr. Duke Hipp – Director, Public Affairs & Strategic Partnerships CropLife Asia, Singapore	
				Dr. Harvey Glick – Director, Regulatory Scientific Affairs Asia-Pacific Bayer/ CL Asia/ International Seed Federation, Singapore	
				Dr. Mahaletchumy Arujanan - ISAAA Global Coordinator Kuala Lumpur, Malaysia	
				Ms. Aileen A. Garcia – Manager, Stakeholder Engagement and Advocacy, Healthier Rice Program, IRRI	
				Ms. Kristine Grace Tome - Program Associate, ISAAA- KC	
				Ms. Clement Dionglay - Project Associate, ISAAA- KC	
				Mr. Eric John Azucena - ISAAA Information Management Specialist	
33rd UC Executive Board Meeting	Webex, hosted by Kasetsart University, Thailand, 24-25 November 2020	Total: 49 (34 M, 15 F)  Philippines: 9 M, 5 F Indonesia: 14 M, 3 F Malaysia: 3 F Thailand: 4 M, 1 F Japan: 2 M, 2 F Taiwan: 4 M, 1 F Canada: 1 M	Kasetsart University	UC Executive Board Members	UC
IFS-SEARCA Ceremonial MOA Signing and Launch of Call for Research under the Mentorship Program for Advanced Grants	Zoom and Facebook Live, 26 November 2020	People reached: 6,793 (2.2K Views; 177 Likes; 68 Total Comments (4 from Shares); 32 Total Shares) 36% M; 60% F Participants from: Philippines Myanmar Cambodia	IFS	Dr. Nighizty Ghezae Director, International Foundation for Science (IFS)  Dr. Glenn B. Gregorio, SEARCA Director	

<b>Title of Activity</b>	<b>Venue and Date</b>	<b>No. of Participants</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Online Inception Meeting of ERIA Project on Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilization of Digital Technologies	Zoom, 27 November 2020	Total: 21 (12 M, 9 F) Philippines: 4 M, 4 F Vietnam: 1 M Singapore: 1 M Indonesia: 1 M, 1 F Japan: 1 M, 1 F India: 2 M; 2 F China: 1 M, 1 F Australia: 1 M	ERIA ASEAN Secretariat SEARCA NTU-RSIS	Deepayan Debnath University of Missouri, USA  Eiji Yamaji University of Tokyo, Japan  Sundaram Gunasekaran University of Wisconsin, USA  Meinhard Breiling University of Technology, Wien, Austria  Dr. Paul .S. Teng Dr. Mely Anthony Nanyang Technological University, Singapore  Pedcris M. Orencio SEARCA  Pham Quang Minh, Joseph Arbiol ASEAN Secretariat  Venkatachalam Anbumozhi, Masanori Kozono, Annisa Utoro Economic Research Institute for ASEAN and East Asia (ERIA)	ERIA
6th UC Graduate Forum with the theme "Agriculture and Beyond"	Zoom, hosted by Universitas Gadjah Mada (UGM), Yogyakarta; 10-11 December 2020	Total: 31 Philippines: 3 M, 2 F Indonesia: 5 M, 9 F Malaysia: 3 M, 2 F Thailand: 1 M, 1 F Japan: 1 M Taiwan: 3 M, 1 F	UGM	Dr. Jamhari UGM  Dr. Glenn B. Gregorio Director, SEARCA  UC Coordinators, selected faculty members, and Graduate students from UC member institutions	UC
Information Session on Innovative Co-learning Call for Proposals	Zoom, 14 December 2020	Total: 23 Philippines: 3 M, 3 F Indonesia: 2 M, 2 F Malaysia: 1 M France: 1 M, 2 F Thailand: 1 M Unidentified: 8	Agropolis Fondation	Dr. Oliver Oliveros, Agropolis Fondation	-

Title of Activity	Venue and Date	No. of Participants	Activity Partner	Main Speaker or Presenter	Funding Source
Forum on Jurisdictional Sustainability Approach for Climate Initiatives in the Forestry and Natural Resources Sector	Zoom and Facebook Live, 18 February 2021	Total: 541 (173 M, 368 F) FB Livestreaming, 322 Zoom, 219	Food and Agriculture Organization of the United Nations (FAO)	Ms. Hang Thi Thanh Pham Deputy FAO Representative ad interim Forester Marcial C. Amaro, Jr., CESO III Officer-in-Charge, Office of the Director, Forest Management Bureau (FMB) and Assistant Secretary for Policy, Planning, Foreign assisted and Special Projects Concerns, Department of Environment and Natural Resources (DENR) Dr. Henry A. Adornado Director, Ecosystems Research and Development Bureau, DENR Mr. Philip Summers International Independent Consultant Dr. Daniel Nepstad President and Executive Director Earth Innovation Institute Forester Marlon Atienza, Chief, Forest Plans and Standards Section, Forest Policy, Planning, and Knowledge Management Division, FMB Dr. Rico C. Ancog Operations Consultant, EIGD and Professor, School of Environmental Science and Management, UPLB	UN-FAO,
Virtual Book Launch of Methodologies Supportive of Sustainable Development in Agriculture and Natural Resources Management: Selected Cases in Southeast Asia	Zoom and Facebook live, hosted by SEARCA; 26 February 2021	Total: 241 FB Livestreaming: 198, Zoom 43  Indonesia Lao PDR Philippines Thailand Vietnam	Regional SEARCA Alumni Association (RSAA)	Authors: Dr. Inocencio E. Buot, Jr., UPLB  Dr. Puvadol Doydee, Kasetsart University (KU)  Dr. Nguyen Thi Huyen, Nong Lam University  Dr. Hari Sulistiyowati, Universitas Jember,  Mr. Yoth Vanhnasin, Savannakhet University (SKU)  Dr. Romeo Gomez, Benguet State University (BSU)	SEARCA
SFRT Online Forum	Zoom, 12 March 2021	Total: 14 (6 M, 8 F)  Philippines: 5 M, 6 F Malaysia: 2 F Vietnam: 1 M	SEARCA	Dr. Gregorio Ardales, Jr., University of the Philippines Rural High School (UPRHS)  Ly Quoc Dang Vietnam  Paul Feliciano Ateneo de Manila University  Jones Napaldet BSU	

<b>Title of Activity</b>	<b>Venue and Date</b>	<b>No. of Participants</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
An Independent Dialogue Initiative for the UN Food Systems Summit 2021: Breaking Silos: Transforming Agricultural Education and Research toward Sustainable Food Systems in Southeast Asia	Online via UNFSS Gateway, 18 May 2021	Total: 56 (38 M, 18 F)	International Union for Conservation of Nature (IUCN)	<p>Dr. Dindo Campilan Regional Director for Asia and Oceania, IUCN</p> <p>Dr. Agnes Kalibata UN Special Envoy</p> <p>Dr. Glenn B. Gregorio Director, SEARCA</p> <p>Dr. Jose Camacho, Jr. Chancellor, UPLB</p> <p>Dr. Weerapon Thongma President, Maejo Univeristy, Asian Association of Agricultural Colleges and Universities (AAACU)</p> <p>Mr. Vignesh Naidu, Director, Operations, The Head Foundation (THF)</p> <p>Ms. Justine Louise Repalam Science Research Technician, DENR- Ecosystems Research and Development Bureau (ERDB)</p> <p>Dr. Shenggen Fan Professor, China Agricultural University</p> <p>Dr Shakuntala Thilsted Global Lead, Nutrition and Public Health, WorldFish</p> <p>Ms. Ma. Estrella Penunia Secretary General, Asian Farmers Association (AFA)</p> <p>Dr. Zulkifli Bin Idrus Professor, Unversiti Putra Malaysia (UPM)</p> <p>Dr. Victor Bruce Tolentino Private Sector Member, Monetary Board, Bangko Sentral ng Pilipinas (BSP)</p> <p>Mr. Jose Ma. Luis Montesclaros Associate Research Fellow, Nanyang Technological University, Singapore</p> <p>Dr. Suvaluk Asavasanti Coordinator, National Research Council of Thailand</p> <p>Mr. Oliver Oliveros Engagement Lead, Food Systems Champions, UN Food Systems Summit</p>	

Title of Activity	Venue and Date	No. of Participants	Activity Partner	Main Speaker or Presenter	Funding Source
Special Graduate Seminar on "The Analysis of the Factors Determining Farmers Adoption and Strategies for the Development of Single Origin Processing Scheme by Coffee Farmers"	Zoom and Facebook live, hosted by SEARCA; 15 January 2021	Total: 46 (20 M, 26 F) Cambodia: 1 M Indonesia: 5 M, 6 F Malaysia: 2 M, 1 F Philippines: 7 M, 11 F Thailand: 1 M, 1 F United Kingdom: 1 M, 2 F United States of America: 2 M, 5 F Vietnam: 1 M	-	Mr. Bayu Rizky Pratama Muhadi Setiabudi University, Indonesia	SEARCA
Special Graduate Seminar on "Application of laser-based imaging technique in the quality evaluation of different Malaysian Sweet potato (Ipomoea batatas L.) varieties during postharvest storage"	Zoom and Facebook live, hosted by SEARCA; 5 March 2021	Total: 25 (9 M, 16 F) Indonesia: 1 M, 1 F Malaysia: 1 F Philippines: 7 M, 12 F United Kingdom: 1 F Vietnam: 1 M, 1 F	-	Engr. Philip Donald C. Sanchez Caraga State University	SEARCA
GSID Conversations: "Sweet Stories: Empowering Local, Cacao Farmers through Innovative Food Production Systems"	Zoom and Facebook live, hosted by SEARCA; 16 April 2021	Total: 27 (8 M, 19 F) Cambodia: 2 M Ghana: 1 M Indonesia: 5 M, 6 F Malaysia: 2 F Philippines: 10 F Thailand: 1 F	-	Ms. Sabrina Mustopo Founder of Krakakoa Chocolate, Indonesia	SEARCA
National Conferences, Roundtable, and Meetings (14)					
Scaling ARD Model Inception Meeting with Provincial Local Government Unit (PLGU) Quezon	Zoom, 27 July 2020	Total: 10 Philippines: 6 M, 4 F	PLGU Quezon	Mr. Roberto D. Gajo, PLGU Quezon  PLGU Quezon representatives  Dr. Pedcris M. Orencio, SEARCA RTLD  Dr. Jose R. Medina, SEARCA Consultant	
RRT Project: Online Stakeholders Validation Meeting	Zoom, 7 August 2020	Total: 15 Philippines: 10 M, 5 F	IFAD Institute of Geographic Sciences and Natural Resources Research (IGSNRR)	Dr. Arvin B. Vista, UPLB	

<b>Title of Activity</b>	<b>Venue and Date</b>	<b>No. of Participants</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
National Forum on One Health Innovations to Mitigate Impacts of COVID-19	Zoom, and SEARCA FB Livestreaming, 26 August 2020	Total: 345 (120 M, 225 F)	Southeast Asian Ministers of Education Organization - Regional Centre for Public Health Hospital Administration, Environmental and Occupational Health (SEAMEO TROPMED Philippines)  DA-Bureau of Animal Industry  National Academy of Science and Technology (NAST) of the Philippines	Dr. Vicente Y. Belizario Dean, College of Public Health, University of Manila and Director, TROPMED-Philippines  Dr. Ronello C. Abila Sub-Regional Representative, South-East Asia of the World Organization for Animal health (OIE)  Engr. Roy M. Abaya Director IV, Field Operations Service, Department of Agriculture  Dr. Jaime C. Montoya Executive Director, Department of Science and Technology - Philippine Council for Health Research and Development (DOST-PCHRD) and Academician and Chairman of Health Division, NAST  Dr. Edwin C. Villar Former Deputy Executive Director for Research and Development, Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)  Dr. Victorio B. Molina Professor and Assistant to the Dean for Planning and Development, College of Public Health, University of Manila and Deputy Director, TROPMED-Philippines  Dr. Ronnie Domingo Director, DA-Bureau of Animal Industry  Dr. Rico C. Ancog Operations Consultant, EIGD, SEARCA and Associate Professor, School of Environmental Science and Management, UPLB	
Global State of Animal Biotechnology for Members of the Judiciary	Zoom, 06 October 2020	Total: 125 (50 M, 75 F)	ISAAA US Department of Agriculture (USDA) US Embassy Manila	Dr. Simon Lilico University of Edinburgh  Dr. Martin Lema University of Quilmes  Dr. Claro N. Mingala Philippine Carabao Center	
Global State of Animal Biotechnology for Congress	Zoom, 08 October 2020	Total: 132 (45 M, 87 F)	ISAAA USDA US Embassy Manila	Dr. Simon Lilico University of Edinburgh  Dr. Martin Lema University of Quilmes  Dr. Claro N. Mingala Philippine Carabao Center	

Title of Activity	Venue and Date	No. of Participants	Activity Partner	Main Speaker or Presenter	Funding Source
DA-Bureau of Agricultural Research (BAR) Calamansi: Seminar on Waste Utilization and Product Development Opportunities in Calamansi	Zoom, 13 October 2020	Total: 74 Philippines: 29 M, 45 F	UPLB, Mindoro State College of Agriculture and Technology (now Mindoro State University), DA-MIMAROPA, Department of Trade and Industry (DTI), DOST, LGU through Provincial Agriculturist Office and Municipal Agriculturist Offices (MAOs), farmers, processors, and private sector	Ms. Christine M. Pine, Provincial Agriculturist, Oriental Mindoro Ms. Fides Z. Tambalo, UPLB Mr. Oliver C. Evangelista, DOST-Industrial Technology Development Institute (ITDI)	
First National Conference "Health, Environment, and Economic Development: the Road to recovery and Resiliency (HEED the 3Rs)" - Session on One Health/Eco-health Perspectives in Agri-Food Systems: Sustaining Livelihoods and Improving Wellbeing	MS Teams, 19 November 2020	Total: 35 Philippines: 15 M, 20 F	REAP-EEGP	Dr. Samuel Joseph Castro, Officer-in-Charge Division Chief of the Animal Health and Welfare Division and Focal Person for African Swine Fever (ASF), Bureau of Animal Industry, Department of Agriculture  Dr. Rico Ancog, Operations Consultant, EIGD, SEARCA  Mr. Jim Leandro Cano, Country Representative of the Young Professionals for Agricultural Development (YPARD)-Philippines	SEARCA Economy and Environment Group Philippines (EEGP) Resource and Environmental Economics Foundation of the Philippines Incorporated (REAP)
National Biotechnology Week Exhibit	Online, 23-26 November 2020	Total: 16,662 (35% M, 65% F)	DENR		
Inception Meeting for the CHED-approved project on LevelUp HEI AFAR with SUC-ACAP	Zoom, 3 December 2020	Philippines: 6 (1 M, 5 F)	SUC-ACAP	Dr. Edgardo Tulin, State Universities and Colleges -Association of Colleges of Agriculture in the Philippines, Inc (SUC-ACAP)	Commission on Higher Education (CHED)
Bootcamp on Digital Agriculture	10 and 15 December 2020	Total: 50	APPGeese	Mr. Raymund D. Austria Executive Founder of APPGeese	APPGeese
Youth in Agriculture	Zoom and Facebook Live, 23 January 2021	People Views (4.3K Views; 216 Likes; 142 Total Comments (10 from Shares); 50 Total Shares) 55% M; 70% F  Philippines	UPRHS	Dr. Glenn B. Gregorio Director, SEARCA  Dr. Emil Q. Javier National Scientist  Dr. Gregorio Y. Ardales, Principal and UPRHS Project Leader	

<b>Title of Activity</b>	<b>Venue and Date</b>	<b>No. of Participants</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Unlocking the Potential of Financial Technology (FinTech) and Innovations in Advancing Agricultural Development in the Philippines	29 January 2021	Total: 106 (40 M, 66 F)	SGV	Ms. Cecilia C. Borromeo, President and CEO Land Bank of the Philippines  Mr. Christian G. Lauron, Head Financial Services Consulting/ Government & Public Sector SGV & Co.  Ms. Larisa Jane L. Salaysay, Associate Director Financial Services Consulting SGV & Co.  Mr. Christian Edmund L. Chua, Senior Director SGV & Co.  Mr. Roel M. de la Cruz Supervising Science Research Specialist DOST - Advanced Science and Technology Institute (ASTI)	
Leadership Development Program for Higher Education Institutions (LDP for HEIs) in the Philippines	MS Teams, 21 April - 7 June 2021	Total: 29 participants from 11 SUC-ACAP member institutions  Cagayan State University: 3 M Capiz State University: 2 M Cavite State University: 2 F Cebu Technological University: 2 M Central Luzon State University: 1 M, 2 F Central Mindanao University: 1 M, 1 F Central Philippines State University: 3 M Nueva Ecija State University of Science and Technology: 3 M University of Eastern Philippines: 1 M, 2 F University of the Philippines Los Banos: 2 M, 2 F Visayas State University: 2 M	The HEAD Foundation, Singapore	Dr. Natarajan Varaprasad Program Director of LDP HEIs in PH from The HEAD Foundation  Assoc. Prof. Calvin Chan Director, Office of Graduate Studies, Singapore University of Social Sciences (SUSS)  Assoc. Prof. Rebekah Lim Director, Teaching and Learning Centre, SUSS  Dr. J. Prospero de Vera Chairperson, CHED  Ms. Cathlea Barote Chief People Officer, East West Seed International  Prof. Lim Cher Ping Chair Professor, Learning Technologies and Innovation, Education University of Hong Kong  Prof. Hyo-Jeong So Professor, Department of Educational Technology, Ewha Womans University  Dr. Danilo L. Concepcion President, University of the Philippines	THF
First Virtual Youth Camp	Zoom, 19 June 2021	Total: 21		Dr. Glenn B. Gregorio Director, SEARCA  Ms. Cherrie Atilano CEO, AGREA	

\*M-male, F-female

**Annex 10. SEARCA Regional Professorial Chair Grants, FY 2020/2021**

<b>Name (Gender)</b>	<b>Institution/ Country</b>	<b>Field of Expertise/ Title of Paper</b>	<b>Duration/ Date of Completion</b>
<b>New awardees (3)</b>			
Mohamed Thariq Bin Haji Hameed Sultan (M)	Universiti Putra Malaysia/ Malaysia	Agricultural Technology and Innovation/ Structural Application from Pineapple Leaf Fiber	May 2021
Khaswar Syamsu (M)	Institut Pertanian Bogor/ Indonesia	Increased Bioethanol Production Directly from Sweet Sorghum Bagasse Using Mold and Yeast	May 2021
Zool Hilmi Ismail (M)	Universiti Teknologi Malaysia/ Malaysia	Deep Learning Sensor Fusion for Plant Water Stress Assessment in Tropical Countries	May 2021
<b>Completed (7)</b>			
Felix M. Salas (M)	Visayas State University/ Philippines	Agricultural Chemistry/ Innovative Liquid Nutrient Formulations for Improved Yield and Chemical Characteristics of Horticultural Crops Under an Aggregate Hydroponic System	AY 2020/2021/ Completed in April 2021
Norsida Man (F)	Universiti Putra Malaysia/ Malaysia	Agricultural Extension and Development/ The Role of ICT-Driven Tools and Technologies to Spread Innovation for Adaptation to Climate Change	AY 2020/2021/ Completed in April 2021
Nazmi Mat Nawi (M)	Universiti Putra Malaysia/ Malaysia	Agricultural Mechanization and Post-harvest Engineering/ Enhancing Crop Production and Sustainability Through Appropriate Mechanization and Automation Technologies	AY 2020/2021/ Completed in February 2021
Shuhaimi Mustafa (M)	Universiti Putra Malaysia/ Malaysia	Food Microbiology and Biotechnology/ Rapid DNA-based Analytical Techniques to Verify the authenticity of Halal products	AY 2020/2021/ Completed in April 2021
Anchasa Pramuanjaroenkij (F)	Kasetsart University/ Thailand	Agriculture and Food Engineering/ Effects of Global Warming to Agricultural Food Production in Thailand	AY 2020/2021/ Completed in October 2020
Virgilio Julius P. Manzano (M)	Mariano Marcos State University/ Philippines	Precision Agriculture/Smart Farming/ Mainstreaming and Harnessing Precision Agriculture for Sustainable and Resilient Philippine Agriculture	AY 2020/2021/ Completed in March 2021
Nathaniel R. Alibuyog (M)	Mariano Marcos State University/ Philippines	Land and Water Resources Engineering/ Harnessing GIS and Remote Sensing Technologies Towards Improved Water Governance and Agricultural Productivity	AY 2019/2020/ Completed in September 2020

\*M-male, F-female

**Annex 11. Conferences, Seminars, Workshops, and Training Courses Attended by SEARCA Scholars, FY 2020/2021**

<b>Name of Participant</b>	<b>Title of Activity</b>	<b>Venue and Date</b>	<b>Nature of Participation</b>
Noor Azrimi Umor (M)	MyBiogas Workshop Series: Short Course on Biomethane Potential Analysis for Biogas Research	Universiti Malaysia Terengganu 11-14 August 2020	Participant
Nursabrina Munawar (F)	Workshop on the Care and Use of Rodents in Research	Universiti Putra Malaysia 2-3 September 2020	Participant
Yuli Haryani (F)	Professional Certification in Halal Executive Course	Halal Products Research Institut October 2020 - 8 November 2020	Participant
Bhakti Etza Setiani (F)	3rd Asian Short Course on Biotechnology, Biosafety Regulation, and Communication (ASCA)	Zoom 23-26 November 2020	Participant

## Annex 12. Publications and Paper Presentations of Scholars, Alumni, and SEARCA Staff, FY 2020/2021

### Journal Articles of Scholars/Alumni (28)

- Santiago, Arenas, R., Fanshuri, B.A., Hadi, S.N., Ullah, H., and Datta, A. 2020. "Nitrogen Fertiliser and Establishment Method Affect Growth, Yield and Nitrogen Use Efficiency of Rice Under Alternate Wetting and Drying Irrigation." *Ann Appl Biol.* 176: 314–327. <https://doi.org/10.1111/aab.12585>
- Truong Quang Dung. 2019. "Entrepreneurial Orientation, Knowledge Acquisition and Collaborative Performance in Agri-food value-Chains in Emerging Markets." *Supply Chain Management: An International Journal* [ISSN 1359-8546] [DOI 10.1108/SCM-09-2019-0327]
- Divo Silalahi, Habshah Midi, Jayamthi Arasan, Mohd Shafie Mustafa, and Jean-Pierre Caliman. 2020. "Automated Fitting Process Using Robust Reliable Weighted Average on Near Infrared Spectral Data Analysis." *Symmetry* 12(12), 2099
- Kay Thi Khaing, Rowena DT. Bacongus, Evelie P. Serrano, Pompe C. Sta. Cruz, and Ramoncito G. Cambel. 2017. "Factors Associated with Farmers' Adaptation Practices to Weather Variability in Rice-based Farming System in Myinmu Township, Sagaing Region, Myanmar." *Journal of Public Affairs and Development.* Vol. 4: 169-199, ISSN 2718-9228.
- Nasution, F., Yapwattanaphun, C. and Chumpookam, J. 2020. "Asexual and Sexual Propagation of *Muntingia calabura* L." *Acta Horti* 1298, 377-382 DOI: 10.17660/ActaHortic.2020.1298.52
- Muhammad Reza Cordova, Ety Riani, and Akihiro Shiomoto. 2020. "Microplastics Ingestion by Blue Panchax Fish (*Aplocheilichthys* sp.) from Ciliwung Estuary, Jakarta, Indonesia." *Marine Pollution Bulletin.* Vol.161, Part B, 111763. <https://doi.org/10.1016/j.marpolbul.2020.111763>
- Nguyen Thi Thuy, Kengradomkij, C., and Inpankaew, T. 2021. "Detection of Antibodies of *Toxoplasma gondii* among Owned Dogs in Cambodia." *Food and Waterborne Parasitology* 22: e00103
- Jonathan Jaime G. Guerrero, Pattavipha Songkumarn, Teresita U. Dalisay, Ireneo B. Pangga, Nolisssa D. Organo. 2020. "Toxicity of CuO and ZnO Nanoparticles and Their Bulk Counterparts on Selected Soil-borne Fungi." *Agriculture and Natural Resource.* 54 325–332
- Saludes, T. and Takeshita, H. 2020. "Bayesian Analysis of Factors Influencing Milk Productivity of Small-hold Dairy Buffalo Farmers in South Luzon, Philippines." *Journal of Experimental Agriculture International*, 42(11), 28-38.
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- Tanquilut, M.R., Elauria, J., Genuino, H., Elauria, M., Suministrado, D., Amongo, R.M., and Yaptengco, K. 2020. "Technical, Financial and Environmental Assessment of Bio-oil Production from Pyrolysis of Pigeon Pea [*Cajanus cajan* (L.) Millsp.] Wood." *Journal of Environmental Science and Management* 23-2: 40-49.
- Tanquilut, M.R., Genuino, H.C., Wilbers, E., Amongo, R.M., Suministrado, D.C., Yaptenco, K.F., Elauria, M.M., Elauria, J.C., and Heeres, H.J. 2020. "Biorefining of Pigeon Pea: Residue Conversion by Pyrolysis." *Energies*, 13, 2778; doi:10.3390/en13112778
- Harahap, R. P., Setiawan, D., Nahrowi, N., Suharti, S., Obitsu, T., and Jayanegara, A. 2020. "Enteric Methane Emissions and Rumen Fermentation Profile Treated by Dietary Chitosan: A Meta-analysis of In Vitro Experiments." *Tropical Animal Science Journal*, 43(3), 233-239. <https://doi.org/10.5398/tasj.2020.43.3.233>
- Philip Donald C. Sanchez. 2020. "Potential Application of Laser-based Imaging Technology in the Quality Evaluation of Agricultural Products: A Review." *Adv Agri Food Res J*; 1(2): a0000127.
- Philip Donald C. Sanchez. 2021. "Effects of Different Storage Temperatures on the Quality and Shelf Life of Malaysian Sweet Potato (*Ipomoea batatas* L.) Varieties." *Food Packaging and Shelf Life* 28: 100642.
- Nguyen Thanh Trung, Atieno M., Herrmann L., Nakasathien S., Sarobel E., Wongkaew A., Nguyen K.T., and Lesueur D. 2020. "Does Inoculation with Native Rhizobia Enhance Nitrogen Fixation and Yield of Cowpea through Legume-based Intercropping in the Northern Mountainous Areas of Vietnam?" *Experimental Agriculture* 56, 825–836. <https://doi.org/10.1017/S0014479720000344>
- Vina Eka Aristya et al. 2021. "Morphological Fingerprint of New Rice Genotypes." *IOP Conf. Ser.: Earth Environ. Sci.* 662 012022
- Divo Dharma Silalahi, Habshah Midi, Jayanthi Arasan, Mohd Shafie Mustafa, and Jean-Pierre Caliman. Kernel Partial Least Square Regression with High Resistance to Multiple Outliers and Bad Leverage Points on Near-Infrared Spectral Data Analysis. *Symmetry* 2021, 13(4), 547; <https://doi.org/10.3390/sym13040547> - 26 Mar 2021
- Vina Eka Aristya et al. 2021. "The Variability of Qualitative Traits in Promising Rice Lines." *IOP Conf. Ser.: Earth Environ. Sci.* 686 012057
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- Flores J.J.M. and Buot Jr., I. E. 2021. "The Structure of Permaculture Landscapes in the Philippines." *Biodiversitas Journal of Biological Diversity*, 22(4): 2032-2044. DOI: 10.13057/biodiv/d220452
- Muhammad Reza Cordova, Yahya Ihya Ulumuddini, Triyoni Purbonegoro, and Akihiro Shiomoto. 2021. Characterization of microplastics in mangrove sediment of Angke Wildlife Reserve, Indonesia. *Marine Pollution Bulletin.* Vol.163, Part B, 112012. <https://doi.org/10.1016/j.marpolbul.2021.112012>
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- Nuryady M.M., Nurcahyo R.W., Hindun, I., Fatmawati, D. 2021. "Multidrug Resistance Protein Structure of *Trypanosoma evansi* Isolated from Buffaloes in Ngawi District, Indonesia: A Bioinformatics Analysis." *Veterinary World*, 14(1): 33-39.

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#### Papers and Poster Presented by Scholars in Conferences, Seminars, and Training-Workshops (5)

- Vina Eka Aristya. "Stakeholder Preferences on Major Characteristics of Promising Rice Lines." International Conference on Smart and Innovative Agriculture (ICoSIA 2020), 4-5 November 2020.
- Vina Eka Aristya. "The Variability of Qualitative Traits in Promising Rice Lines." International Conference on Smart and Innovative Agriculture (ICoSIA 2020), 4-5 November 2020. (Awarded Best Paper)
- Vina Eka Aristya. "Morphological Fingerprint of New Rice Genotypes." 1st International Conference on Industrial Agriculture (ICONIA 2020), 3-4 December 2020.
- Shahida MD Nor. "Effects of temperature and Storage Duration on Keeping Quality of Malaysian Grown Passion Fruit (*Passiflora edulis* f. *Flavicarpa* Deg.)." 4th International Symposium on Horticulture in Europe - Advancing Together: Enhancing Quality of Life through HortScience, 9-11 March 2021, virtual conference.
- Mona Liza F. Delos Reyes. "A Program Framework for Collaboration on Sustainable Water Resources Management in Southeast Asia." Poster presentation. Water Security and Climate Change Conference Hanoi, Vietnam, 1-3 March 2021.

#### Book Chapters of Staff (2)

- Orencio, P.M. 2020. Knowledge Co-Production Processes for Building Disaster-resilience of Communities in Coastal Areas: A Case Study of Baler, Aurora, Philippines. In: Tanaka M., Baba K. (eds) *Resilient Policies in Asian Cities*. Springer, Singapore
- Gonsalves J, Baguilat I, Bantayan R, Bernardo EB, Sebastian L. 2020. Eight Guide Steps for Setting Up a Climate-Smart Village: A Trainer's Guide. Cavite, Philippines: International Institute of Rural Reconstruction.

#### Papers Presented by Staff (4)

- Rico C. Ancog. "Urban Agriculture." Asian Development Bank (ADB) Brown Bag Seminar, virtual, 14 September 2020.
- Maria Cristeta N. Cuaresma. "What Works, What Doesn't Work in Formal Education." Committee on World Food Security (CFS) Partner Event for the Youth Alliance for Zero Hunger, virtual, 14 October 2020.
- Maria Cristeta N. Cuaresma, "The NU-SEARCA Joint PhD Scholarship Project, Leading the Way: The Nagoya University Transnational Doctoral Programs for Leading Professionals in Asian Countries." virtual, 18 January 2021.
- Pedcris M. Orencio and Rosario B. Bantayan. "A Program Framework for Collaboration on Sustainable Water Resources Management in Southeast Asia." Poster presentation. Water Security and Climate Change Conference, Hanoi, Vietnam, 1-3 March 2021.

### Annex 13. SEARCA Online Learning and Virtual Engagements (SOLVE) Webinar Series, FY 2020/2021

Date	Topic	Speaker	No. of Virtual Attendees
<b>SOLVE Webinars (24)</b>			
8 July 2020, 10th SOLVE Webinar	SOLVE Emerging Diseases in the Time of COVID-19 Pandemic through One Health Research and Surveillance System		
	Adapting the Livestock R&D Priority Areas to an Environment with COVID-19	Dr. Synan S. Baguio Director, Livestock Research Division, Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)	Zoom – 301 SEARCA FB Livestreaming- 458
	African Swine Fever Control and Prevention Program in the Philippines	Dr. Samuel Joseph Castro Veterinarian II and Chair, Department of Agriculture (DA)-Bureau of Animal Industry African Swine Fever Control Task Force, Philippines	
	Integrated Real-time Animal Health Information System	Dr. Muhammad Muharram (Andi) Hidayat Senior Veterinary Officer, DGAHS, Ministry of Agriculture, Indonesia, Head of Epidemiology and Information System Directorate General of Livestock and Animal Health, Ministry of Agriculture, Jakarta, Indonesia	
	One Health Perspectives Against Emerging Diseases: Lessons Learned from Lawa Model	Dr. Sirikachorn Tangkawattana Associate Professor, Faculty of Veterinary Medicine, Khon Kaen University	

Date	Topic	Speaker	No. of Virtual Attendees
<b>SOLVE Webinars (24)</b>			
15 July 2020, 11th SOLVE Webinar	SOLVE Income Insufficiency in the Time of COVID 19 Pandemic through Agricultural Value Chains Financing and Investments		
	Wise Investments and Savings for Entrepreneurs (W.I.S.E.): Financial Literacy Made Easy	Assoc. Prof. Joselito G. Florendo, Deputy Director for Administration, SEARCA	Zoom – 384 SEARCA FB Livestreaming-479
22 July 2020, 12th SOLVE Webinar	<b>SOLVE Income Insufficiency in the Time of COVID 19 Pandemic through Inclusive Rural Financing</b>		
	Engagement with Rural and Agricultural Enterprises to Boost Economic Activities During the Global Pandemic: APRACA experiences	Dr. Prasun Kumar Das Secretary General, Asia Pacific Rural and Agricultural Credit Association (APRACA), Bangkok, Thailand	Zoom – 189 SEARCA FB Livestreaming-277
	Agri-Value Chain Financing from an Industry Perspective	Mr. Ruben D. Simon, Jr. Director, Financial Services Consulting, Government and Public Sector, SyCip Gorres Velayo & Co., Philippines	
5 August 2020, 13th SOLVE Webinar	<b>SOLVE Youth Disengagement in Agriculture: Addressing Challenges, Creating Opportunities</b>		
	SEAMEO Youth Program	Dr. Kritsachai Somsaman Deputy Director for Administration and Communication, Southeast Asian Ministers of Education Organization Secretariat (SEAMES), Thailand	Zoom – 118 SEARCA FB Livestreaming-893
	Agricultural Sciences as a Field of Study in Higher Education in Institution in Japan	Dr. Nomura P. Nakao Assoc. Prof., Faculty of Life and Environmental Sciences, University of Tsukuba, Japan	
	Key Lessons for the Youth to be Actively Engaged in Agriculture?	Dr. Eufemio T. Rasco, Jr. Academician, National Academy of Science and Technology (NAST), Philippines	
	Southern Luzon State University's Roadmap in Curtailing Youth Disengagement in Agriculture-related Courses and Food Production	Dr. Doracie B. Zoleta-Nantes President, Southern Luzon State University, Philippines	
12 August 2020, 14th SOLVE Webinar	<b>SOLVE Youth Disengagement in Agriculture: Empowering Future Leaders in Southeast Asia</b>		
	Young Forces for Agricultural Innovations #Y4AGRI	Mr. Sonny P. Pasiona Communications Associate, Partnerships Unit, SEARCA	Zoom – 129 SEARCA FB Livestreaming-674
	Empowering Youth to Participate in Sustainable Food Systems	Mr. Kofi Kisiedu Acquaye Regional Director, Young Professionals in Agricultural Development (YPARD), Africa	
	Fostering the Creation of Digital Agriculture Communities in Times of COVID-19	Mr. Carlos Castellanos Neira Chief Operating Officer and Co-Founder, Cultivando Futuro, Bogota, Colombia	
19 August 2020, 15th SOLVE Webinar	<b>SOLVE Youth Disengagement in Agriculture: Southeast Asian Youth Champions in Action</b>		
	FARMING IT FORWARD: Turning a Family Farm into a Successful Agribusiness Venture	Mr. Leo Manuel C. Casaclang Owner, LocalRoots Agricultural Farming and Service	Zoom – 125 SEARCA FB Livestreaming-827
	Youth Leader in Community and Advocate of Organic Vegetable Gardening and Women Entrepreneurship	Ms. Sel Rechaney Assistant Project Manager of ProMarket, Adventist Development and Relief Agency (ADRA) Cambodia	
	Towards a Better Normal: Tasks and Prospects of the Youth in Agriculture and Genuine Rural Development	Mr. Leo XL Y. Fuentes, Jr. Regional Coordinator Magsasaka at Siyentipiko para sa Pag-unlad ng Agrikultura (MASIPAG) Mindanao	

Date	Topic	Speaker	No. of Virtual Attendees
<b>SOLVE Webinars (24)</b>			
9 September 2020, 16th SOLVE Webinar	<b>SOLVE Climate Resilience Gap Through Nature-Based Solutions</b>		
	Climate Resilience through Forest Restoration: EDC's BINHI Program	Atty. Allan V. Barcena Head, Corporate Social Responsibility and Public Relations, Energy Development Corporation (EDC)	Zoom – 104 SEARCA FB Livestreaming-759
	Agriculture and the NDCs: The ASEAN Experience	Ms. Imelda Bacudo Independent Consultant, Bali, Indonesia	
23 September 2020 17th SOLVE Webinar	<b>SOLVE Vulnerability of Smallholders to Climate Change Impacts</b>		
	Climate-Smart Land Use in ASEAN (CSLU)	Ms. Hanna Reuter Principal Advisor, Climate Smart Land Use in ASEAN, GIZ-Jakarta	Zoom – 84 SEARCA FB Livestreaming-698
	CSV Approach and Scaling Pathways into Vietnam's NTM 2021-2030 Strategy	Dr. Bui Le Vinh Lecturer and Researcher, Vietnam National University of Agriculture (VNUA) and Research Consultant, International Center for Tropical Agriculture (CIAT), Vietnam	
	Agroforestry Contributions to Climate-Resilient Landscapes and their Impacts on Smallholders	Dr. Delia C. Catacutan Regional Coordinator for Southeast Asia World Agroforestry (ICRAF), Southeast Asia Regional Program, Bogor, Indonesia	
	Climate-Resilient Agriculture Technologies and Approaches: Options for Smallholders	Dr. Romeo V. Labios Operations Consultant, Partnerships Unit, SEARCA	
7 October 2020, 18th SOLVE Webinar	<b>SOLVE the Unrealized Potential of Animal Biotechnology</b>		
	Global State of Animal Biotechnology: Editing the Course of Livestock Development	Dr. Simon Lilico Research Fellow, University of Edinburgh and Editor-in-Chief, Transgenic Research	Zoom – 134 SEARCA FB Livestreaming -772
	Animal Biotech Regulations	Dr. Martin Lema Adjunct Professor and Director of Technology Transfer, National University of Quilmes, Buenos Aires, Argentina	
	Animal Biotechnologies in the Philippines: Potentials and Benefits	Dr. Claro N. Mingala Center Chief, Livestock Biotechnology Center, Philippine Carabao Center, Munoz, Nueva Ecija, Philippines	
21 October 2020 19th SOLVE Webinar	<b>SOLVE Agrobiodiversity Challenges towards Food and Nutrition Security</b>		
	Walking the Talk: Practical Applications of "Conservation Through Sustainable Use" of Local Agrobiodiversity	Mr. Julian F. Gonsalves Senior Adviser, International Institute of Rural Reconstruction (IIRR)	Zoom – 122 SEARCA FB Livestreaming -345
	Fragmentation Drivers in Polillo Island Key Biodiversity Area, Polillo Islands, Quezon, Philippines	Ms. Leajim A. Villanueva Licensed Environmental Planner and SEARCA Travel Grantee	
11 November 2020 20th SOLVE Webinar	<b>SOLVE Leadership Conundrums: Learning to Lead, Leading to Learn</b>		
	Transformational Leadership for Agriculture and Rural Development and Higher Education Reform in Myanmar	Prof. Dr. Myo Kywe Chairman, National Education Policy Commission (NEPC), Myanmar	Zoom– 193 SEARCA FB Livestreaming -438
	Transformational leadership in an ARD higher education institution	Dr. Jose V. Camacho, Jr. Chancellor, UPLB	
	The Entrepreneurial Mindset: Making the Right Decisions to Adapt	Ms. Audrey Regis President, Audrey's Confectioneries	
13 January 2021 21st SOLVE Webinar	<b>SOLVE Food and Nutrition Insecurity through Biofortification</b>		
	Mainstreaming Nutrition into Agri-food Systems: The Case of Biofortification	Dr. Howarth Bouis Founding Director, HarvestPlus	Zoom – 196 SEARCA FB Livestreaming -569
	Fill the Nutrient Gap	Dr. Martin Parreno OIC, Programme Unit and Program Policy Officer, World Food Programme Philippines	
	It's Time for Golden Rice	Dr. Rey Ordonio Project Lead, Healthier Rice, DA-PhilRice	

Date	Topic	Speaker	No. of Virtual Attendees
<b>SOLVE Webinars (24)</b>			
27 January 2021 22nd SOLVE Webinar	<b>SOLVE Food Insecurity through Efficient and Innovative Seed Systems</b>		
	CropLife Asia's Initiatives on Seeds Advocacy and Outreach Programs	Dr. Siang Hee Tan Executive Director, CropLife Asia	Zoom – 136 SEARCA FB
	How does East-West Seed Contribute to the SDG Agenda?	Dr. Mary Ann Sayoc Public Affairs Lead, East-West Seed International	Livestreaming - 493
	Seed Quality Assurance Towards Efficient and Innovative Seed System	Mr. Ruel Gesmundo Chief, National Seed Quality Control Services, Department of Agriculture-Bureau of Plant Industry	
<b>SOLVE Livestock Diseases and Zoonoses: How Secure are Biosecurity Measures?</b>			
17 February 2021 23rd SOLVE Webinar	Philippine Government Initiatives on Animal Disease Prevention and Control	Dr. Anthony Bucad Veterinarian II and OIC, Animal Disease Control Section, Department of Agriculture - Bureau of Animal Industry, Philippines	Zoom – 94 SEARCA FB Livestreaming - 382
	Combatting African Swine Fever in Timor-Leste Using Basic Biosecurity Measures	Dr. Tamsin Barnes Senior Research Fellow in Veterinary Epidemiology, University of Queensland	
	Zoonoses and Emerging Infectious Diseases	Dr. Richard Kock Veterinary Ecologist and Infectious Disease Researcher, Royal Veterinary College, University of London	
<b>SOLVE Antimicrobial Resistance (AMR) through One Health Approach: Priority Actions for Best Practice Policies and Surveillance Innovation</b>			
24 February 2021 24th SOLVE Webinar	Updates on the AMR Programme in the Animal Health Sector: Initiatives, Challenges, and Ways Forward	Dr. Abbie Stephanie Uy Veterinarian II National Veterinary Quarantine Services Division, Philippine Department of Agriculture - Bureau of Animal Industry	Zoom - 87 SEARCA FB Livestreaming - 319
	Indonesian Perspective of Handling Monitoring and Surveillance to Reduce the Effects of AMR	Dr. Susan Noor Senior Researcher, Indonesian Centre for Veterinary Research and Development, Indonesian Agency for Agriculture Research and Development, Indonesian Ministry of Agriculture	
	Knowledge and Awareness Actions for AMR Policy Intervention in Southeast Asia	Dr. Flavie Luce Goutard Researcher Epidemiologist, French Agricultural Research Centre for International Development (CIRAD)	
<b>SOLVE Barriers to Agricultural Finance: Access, Innovations, and Inclusivity</b>			
10 March 2021 25th SOLVE Webinar	Sustainable Agriculture Financing	Ms. Ellen Joyce Suficiencia Director, Financial Inclusion Office – Strategic Communication and Advocacy Bangko Sentral ng Pilipinas	Zoom – 73 SEARCA FB Livestreaming - 206
	Overview of Agricultural Value Chain Financing (AVCF) Project	Mr. Virginio Jamon Consultant, Asian Development Bank	
	Kadiwa ni Ani at Kita	Ms. Joyce Mojica Bengo Officer-in-Charge, Department of Agriculture-Market Development Division, Agribusiness and Marketing Assistance Service, Philippines	

Date	Topic	Speaker	No. of Virtual Attendees
<b>SOLVE Webinars (24)</b>			
19 March 2021 Special SOLVE Webinar	<b>SOLVE Barriers for Women in Agriculture: Inclusive Opportunities to Support Agri-Entrepreneurship</b>		
	Support Women's Entrepreneurship in Agriculture in ASEAN Countries: Policy Challenges and Practices	Dr. Alessandro Goglio Head, Partner Countries Unit, Directorate for Employment, Labour and Social Affairs, Organisation for Economic Co-operation and Development (OECD)	Zoom – 129 SEARCA FB Livestreaming – 344
	Strengthening Women Entrepreneurship in Agriculture in ASEAN Countries: Evidence from the Field	Dr. Nerlita Manalili Managing Director Nexus Agribusiness Solutions and Consultant, OECD	
	Healing with Superfoods	Ms. Catherine Brillantes-Turvill Owner, Nurture Wellness Village and Nurture Farmacy	
	Women for Ecotourism	Ms. Chen Reyes-Mencias, EnP Tourism Planning Consultant	
24 March 2021 26th SOLVE Webinar	<b>SOLVE Agricultural Investment Risks: Empowering Smallholder Farmers through Microinsurance and Microfinance</b>		
	Agriculture Insurance for Boosting Farm Productivity and Income	Dr. Arup Chatterjee Principal Financial Sector Specialist Sustainable Development and Climate Change Department Asian Development Bank	Zoom – 112 SEARCA FB Livestreaming – 327
	State of Agricultural Insurance Program	Mr. Bonifacio Pales Senior Vice President Philippine Crop Insurance Corporation	
	Promoting Awareness on Microfinance and Microinsurance Services	Dr. Jaime Aristotle Alip Founder and Chairman Emeritus, <b>CARD Mutually Reinforcing Institutions</b> (CARD MRI)	
14 April 2021 27th SOLVE Webinar	<b>SOLVE Climate Change Impact on Agriculture: Production and Post-Production Practices</b>		
	Climate Change Impacts on Rice Production	Dr. Reiner Wassmann Climate Change Expert and SEARCA Senior Fellow	Zoom – 102 SEARCA FB Livestreaming - 219
	Postharvest Management in Emerging Climate Change	Engr. Martin Gummert Senior Scientist International Rice Research Institute (IRRI)	
28 April 2021 28th SOLVE Webinar	<b>SOLVE Vulnerabilities to Climate Change: Technologies for Climate-Resilient Agriculture</b>		
	Packaging and Processing Technologies for a Climate Resilient Supply of Agricultural Products	Dr. Annabelle Briones Director and Scientist I, DOST-Industrial Technology Development Institute	Zoom – 116 SEARCA FB Livestreaming - 289
	Continuing Renewal of Energy in Agriculture	Mr. Ricardo Torres, Jr. Project Manager DREAMS Project, United Nations Development Programme (UNDP)	
12 May 2021 29th SOLVE Webinar	<b>SOLVE Declining Agricultural Productivity: Farm Clustering Strategies</b>		
	Towards a More Inclusive Philippine Food System	Mr. Rodolfo Vicerra Undersecretary for Policy and Planning Department of Agriculture, Philippines	Zoom – 102 SEARCA FB Livestreaming - 117
	Farm consolidation in Cambodia: The Case of Safe Vegetable Production	Dr. Buntong Borarin Director of Research and Extension Royal University of Agriculture, Cambodia	
26 May 2021 30th SOLVE Webinar	<b>SOLVE Farm Consolidation and Clustering Challenges: Practices and Prospects</b>		
	Farm Consolidation in the Philippines: Prospects and Challenges - The PhilRice Experience	Dr. John De Leon Executive Director, Philippine Rice Research Institute	Zoom – 119 SEARCA FB Livestreaming - 225
	Agriculture Extension Service on Farm Consolidation in Vietnam	Dr. Khoa Nguyen Viet Head of Training and Education Division, National Agriculture Extension Center, Ministry of Agriculture and Rural Development, Vietnam	

9 June 2021 31st SOLVE Webinar	<b>SOLVE Agriculture Dissonance: Setting Directions through Change Leadership</b>		
	Transforming Agriculture Needs Your Leadership	Dr. Dennis Garrity Dryland Ambassador for the UN Convention to Combat Desertification, Senior Fellow at the World Resources Institute, and Distinguished Senior Research Fellow at World Agroforestry (ICRAF) Nairobi	Zoom - 102 SEARCA FB Livestreaming - 189
	Learning Change Leadership by Necessity and Opportunity	Dr. Dindo Campilan Regional Director for Asia and Hub Director for Oceania International Union for Conservation of Nature (IUCN)	
	Transformational Leadership in Agriculture: WOMAG Case Study	Ms. Jade Dyson Director, Grain and Feed Trade Association (GAFTA) Singapore President, WOMAG	
23 June 2021 32nd SOLVE Webinar	<b>SOLVE Value Chain Disruptions: Change Leadership in the Agri-food Industry</b>		
	Go Negosyo Agripreneurship Programs	Ms. Ana Margarita "Ginggay" Hontiveros Malvar Senior Adviser for Agripreneurship and Mindanao Programs Head, Go Negosyo Vice President for Reputation Management and Sustainability, Aboitiz Group	Zoom - 117 SEARCA FB Livestreaming - 182
	Transformational Leadership for Inclusive Agri Value Chains	Ms. Ma. Gisela H. Tiongson Executive Director Jollibee Group Foundation	
	Puso Para sa Pinas: Transformational Leadership in Agricultural and Rural Development	Mr. Ronald Mascariñas President and General Manager Bounty Agro Ventures, Inc.	

#### Annex 14. SEARCA Training and Workshops, FY 2020/2021

Title of Event	Venue and Date	No. of Participants (country, gender)	Activity Partner	Main Speaker or Presenter	Funding Source
<b>Regional Training and Workshops (4)</b>					
GIZ-SEARCA ASEAN Climate Leadership Program: The Role of Land Management on Food Security and Climate Change	MS Teams 6 October-10 December 2020	Total: 27 Brunei Darussalam: 1 M, 2 F Indonesia: 2 M, 2 F Lao PDR: 1 M Malaysia: 2 M, 1 F Myanmar: 2 M, 1 F Philippines: 2 M, 4 F Singapore: 2 F Thailand: 1- F Vietnam: 1 M, 3 F	Climate-Smart Land Use in ASEAN, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	International Facilitator: Mr. Andre de Wit, Dean of the Leadership Academy Amsterdam, Netherlands  Regional Facilitator: Ms. Rejani Kunjappan, Senior Program Officer, Training and Learning, The Center for People and Forests (RECOFTC), Thailand.  Resource Persons: Dr. Sridhar Gummadi, Science Officer of the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) Southeast Asia Regional Program  Ms. Lina Jihadah, Climate Change FAO-Regional Office for Asia and the Pacific, Bangkok  Mr. Dian Sukmajaya, Senior Officer, Food, Agriculture and Forestry Division, ASEAN Secretariat, Jakarta, Indonesia	

Title of Event	Venue and Date	No. of Participants (country, gender)	Activity Partner	Main Speaker or Presenter	Funding Source
First Knowledge Sharing Workshop for the Development of ASEAN Guidelines for Accelerating Transformation of Food and Agriculture through Digital Technologies and Innovation	Zoom 22 February 2021	Total: 71 (39 M, 32 F) Countries: Brunei Darussalam Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Singapore Thailand Vietnam	ERIA	Dr. Margaret Yoovatana, Acting Director, International Agricultural Affairs Group, Department of Agriculture, Thailand  Ms. Imelda Bacudo, Coordinator for ASEAN Climate Resilience Network and ASEAN Negotiation Group for Agriculture (ANGA)  Dr. Setiari Marwanto, Researcher, Indonesian Agency for Agricultural Research and Development (IAARD), Ministry of Agriculture, Indonesia	
IFS-SEARCA Mentorship Program for Advanced Grants Mentoring Workshop	MS Teams 15-21 June 2021	Total: 24 (10 M,14 F) Indonesia: 1 M, 4 F Philippines: 4 F Vietnam: 9 M, 6 F	International Foundation for Science (IFS)	Dr. Glenn B. Gregorio Director, SEARCA Dr. Julian Gonsalves Senior Adviser, International Institute of Rural Reconstruction  Dr. Malcolm Beveridge IFS Board Member  Mr. John Young Executive Director, INASP  Dr. Rico C. Ancog, Operations Consultant, SEARCA  Prof. Dr. Mohamed Thariq Hameed Sultan Faculty of Engineering, Universiti Putra Malaysia  Mr. William Savage Workshop Co-facilitator, International Foundation for Science (IFS)	

<b>Title of Event</b>	<b>Venue and Date</b>	<b>No. of Participants (country, gender)</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Online Training- Workshop on Modeling for Higher Education Institutions: Application of GIS and Agent-Based Modeling Approach: Agri-Forestry Technology for Ensuring Agricultural Resilience (GAMA- AFTER)	Zoom and Facebook Livestreaming 22, 24, 26 March 2021	March 22: Total: 377 FB Livestreaming: 208 Zoom: 169 Male: 267 Female: 318	French National Research Institute for Sustainable Development (IRD), French Embassy	Dr. Alexis Drogoul Vietnam-Philippines Country Representative, French National Research Institute for Sustainable Development (IRD)	French Embassy- Manila,
		March 24: Total: 218 FB Livestreaming: 67 Zoom: 151 Male: 57 Female: 161		Dr. Patrick Taillandier Research Scientist Research Unit for Applied Mathematics and Informatics (MIAT), National Research Institute for Agriculture, Food and Environment (INRAE)- Occitanie- Toulouse	
		March 26: Total: 209 FB Livestreaming: 102 Zoom: 107 Male: 59 Female: 150		Mr. Arthur Brugière Data Analysis and Computer Modeling Engineer, IRD Vietnam	
	MS Teams April-7 May 2021	Total: 23 (12 M, 11 F)	University of the Philippines Los Baños (UPLB)	Dr. Nathaniel C. Bantayan Professor and Scientist 1, Institute of Renewable Natural Resource (IRNR) College of Forestry and Natural Resources, UPLB	
				Dr. Maria Art Antonette D. Clariño Associate Professor, Institute of Computer Science (ICS) College of Arts and Sciences (CAS), UPLB	
				Dr. Cristino L. Tiburan, Jr. Associate Professor, IRNR, CFNR, UPLB	
				Asst. Prof. Paul Joseph B. Ramirez Assistant Professor Department of Economics, College of Economics and Management, UPLB	
				Prof. Zenith O. Arnejo Assistant Professor ICS, CAS, UPLB	

Title of Event	Venue and Date	No. of Participants (country, gender)	Activity Partner	Main Speaker or Presenter	Funding Source
<b>National Learning and Knowledge Events (14)</b>					
E-Training on School and Home Gardens cum Biodiversity Enhancement for Busuanga Island	Zoom 16 July - 23 September 2020	Total: 69  Philippines: 16 M, 53 F	UPLB, DepEd Division of Laguna  Kansas State University (KSU)	Dr. Blesilda M. Calub University Researcher IV, Agricultural Systems Institute, College of Agriculture and Food Science (CAFS), University of the Philippines Los Baños (UPLB)	KSU SEARCA
Session 1: Module 1: Sharing Initiatives on School Garden	Zoom 16 July 2020		LGUs of Busuanga and Coron		
Session 2: Module 2: School Gardens for Food and Nutrition	Zoom, 23 July 2020			Dr. Leila S. Africa Director, Institute of Human Nutrition and Food, College of Human Ecology, UPLB	
Session 3: Module 3: Guiding Concepts of School-plus-Home Gardens Project	Zoom, YouTube 30 July 2020			Ms. Michelle R. Samia Master Teacher I, Labuin Elementary School, Pila Laguna	
Session 4: Module 3: Guiding Concepts of School-plus-Home Gardens Project	Zoom, YouTube 6 August 2020			Dr. Manuel R. Reyes Research Professor and Agroecological Engineer Kansas State University, USA Sustainable Intensification Innovation Lab (SIIL) SIIL Coordinator, Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CESAIN), Cambodia	
Session 5: Module 3: Guiding Concepts of School-plus-Home Gardens Project	Zoom, YouTube 13 August 2020				
Session 6: Module 3: Guiding Concepts of School-plus-Home Gardens Project	Zoom 20 August 2020				
Session 7: Module 4: School Gardens for Education	Zoom 10 September 2020			Dr. Leticia E. Afuang Professor, Animal Biology Division (ABD) Institute of Biological Sciences (IBS), College of Arts and Sciences (CAS), UPLB	
Session 8: Module 5: Participatory Visioning and Goal Setting	Zoom 17 September 2020  Zoom 24 September 2020				
Session 9: Module 5: Participatory Visioning and Goal Setting				Prof. Bryan V. Apacionado Prof. Ryan Rodrigo P. Tayobong Edible Landscaping Project, Crop Production and Management Division, Institute of Crop Science, CAFS, UPLB	
				Ms. Glenda M. Aruego Master Teacher II Crisanto Guysayko Memorial Elementary School Nagcarlan, Laguna, Philippines	
				Mr. Lamberto C. Perolina Education Program Supervisor (Agriculture) DepEd-Division of Laguna	

<b>Title of Event</b>	<b>Venue and Date</b>	<b>No. of Participants (country, gender)</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Training-Workshop on Biotech Animals for Philippine Regulators	Zoom 24-26 August 2020	Total: 65 Philippines: 20 M, 45 F	ISAAA US Department of Agriculture (USDA) National Committee on Biosafety of the Philippines (NCBP)	Dr. Carl Ramage La Trobe University Dr. Diane Wray-Cahen USDA-FAS Ms. Ma. Lorelie Agbagala DOST-NCBP Dr. Claro Mingala Philippine Carabao Center Dr. Paulo Paes de Andrade Federal University of Pernambuco Dr. Martin Lema University of Quilmes Argentina Dr. Lisa Kelly Food Standards Australia New Zealand	ISAAA USDA
RRT Project: Online Stakeholders Validation Workshop (Luzon Island)	Zoom 25 August 2020	Total: 26 Philippines: 11 M, 15 F	IFAD IGSNRR	Dr. Arvin B.Vista, UPLB	
RRT Project: Online Stakeholders Validation Workshop (Visayas Island)	Zoom 25 August 2020	Total: 8 Philippines: 5 M, 3 F	IFAD IGSNRR	Dr. Arvin B.Vista, UPLB	
RRT Project: Online Stakeholders Validation Workshop (Mindanao Island)	Zoom 26 August 2020	Total: 11 Philippines: 5 M, 6 F	IFAD IGSNRR	Dr. Arvin B.Vista, UPLB	
Virtual Training-Workshop on Good Agricultural Practices (GAP) for Emerging Agricultural Commodities Amid COVID-19 Pandemic	Zoom and SEARCA FB Livestreaming 27-28 August 2020	Total: 417 (157 M, 260 F)	DA-BPI	Dr. William D. Dar Secretary Department of Agriculture, represented by Dr. Leocadio Sebastian Special Adviser on Food Security and Agricultural Innovation, Department of Agriculture Mr. Manuel M. Dimalaluan Food Safety Focal Agricultural Training Institute (ATI) Mr. Samuel Fontanilla Agriculturist II Bureau of Plant Industry (BPI) Ms. Cherrie D. Atilano President, CEO and Founding Farmer AGREA Philippines Mr. Fabian Espiritu Owner Farmtec Foods, Inc.	

<b>Title of Event</b>	<b>Venue and Date</b>	<b>No. of Participants (country, gender)</b>	<b>Activity Partner</b>	<b>Main Speaker or Presenter</b>	<b>Funding Source</b>
Higher Education Institutions Training-Workshop on Research Project Development for Agriculture 4.0	Zoom 12-13 October 2020	Total: 345 (114 M, 231 F)	CHED	Dr. Maria Cristeta N. Cuaresma Program Head, Education and Collective Learning, SEARCA  Dr. Pedcris M. Orencio Program Head, Research and Thought Leadership, SEARCA  Dr. Rico C. Ancog Operations Consultant, EIGD, SEARCA and Associate Professor, School of Environmental Science and Management, UPLB  Asst. Prof. Nelson G. Cainghog Director, Planning, Research and Knowledge Management, CHED  Dr. Maria Celeste H. Cadiz Consultant, Knowledge Management, SEARCA	
Workshop: Building Common Understanding and Drafting of Quality Assurance (QA) Strategies and Standards of Internal QA (IQA) for RUA	Zoom 17 November 2020	Total: 35  Cambodia: 30 M, 5 F	Royal University of Agriculture (RUA)-Cambodia	Dr. Rhea L. Gumasing, Assistant Professor, Institute of Governance and Rural Development, College of Public Affairs (CPAf), UPLB	RUA
Orientation Workshop on the Development of Self-assessment Report (SAR) for RUA	Zoom 1 and 11 December 2020	Total: 35  Cambodia: 30 M, 5 F	Royal University of Agriculture (RUA)-Cambodia	Dr. Rhea L. Gumasing, Assistant Professor, Institute of Governance and Rural Development, College of Public Affairs (CPAf), UPLB	RUA
Virtual Signing of Memorandum of Agreement between SEARCA and the Provincial Local Government of Quezon, and Project Planning Workshop	Zoom 21 January 2021	Total: 20  Philippines: 12 M, 8 F	Provincial Local Government of Quezon	Gov. Danilo Suarez PLGU Quezon  Dr. Pedcris M. Orencio SEARCA	
DA-BAR Calamansi: Training on Identification of Insect Pests, Beneficial Insects and Disease of Calamansi and Their Management	Zoom 4 March 2021	Total: 68 Philippines: 39 M, 29 F	UPLB, MinSCAT, DA-RCPC, BPI, LGU through PAgo and MAOs, farmers, Nursery operators and other key stakeholders	Dr. Flor A. Ceballo Dr. Filomena C. Sta. Cruz Dr. Joselito E. Villa IWEPC-CAFS, UPLB	DA-BAR
4th Online workshop on Internal Quality Assurance (IQA) Manual Development for RUA: The AUN QA Process	Zoom 23 March 2021	Total: 29 Cambodia: 24 M, 5 F	Royal University of Agriculture (RUA)-Cambodia	Dr. Rhea L. Gumasing Associate Professor, Institute of Governance and Rural Development, College of Public Affairs (CPAf), UPLB	RUA

Title of Event	Venue and Date	No. of Participants (country, gender)	Activity Partner	Main Speaker or Presenter	Funding Source
5th Online Workshop on Internal Quality Assurance (IQA) Manual Development for RUA	Zoom 30 April 2021	Total: 39 Cambodia: 34 M, 5 F	Royal University of Agriculture-Cambodia	Dr. Analyn L. Codilan Associate Professor and Associate Dean Institute of Renewable Natural Resources, College of Forestry and Natural Resources, UPLB Dr. Rhea L. Gumasing, Associate Professor, Institute of Governance and Rural Development, College of Public Affairs (CPAf), UPLB	Royal University of Agriculture-Cambodia
6th Online Workshop on Internal Quality Assurance (IQA) Manual Development for RUA	Zoom 25 May 2021	Total: 41 Cambodia: 34 M, 7 F	Royal University of Agriculture-Cambodia	Dr. Rhea L. Gumasing, Associate Professor, Institute of Governance and Rural Development, College of Public Affairs (CPAf), UPLB	Royal University of Agriculture-Cambodia

### Annex 15. Research Projects, FY 2020/2021

Title of Project	Status	Project duration and place of implementation	Total Funding (breakdown per activity partner)	Partner
Scaling up Effective Models of Inclusive and Sustainable Agricultural and Rural Development (Climate Resilient Production Systems and Strengthening Market Linkages)	Ongoing	1 July 2020 – 30 June 2021 Quezon Province, Philippines		Provincial Local Government Unit (PLGU) Quezon  Southern Luzon State University (SLSU)
Scaling up the School-Plus-Home Gardens Project (Integrating Conservation Agriculture in Sustainable Agriculture - CA40A)	Ongoing	1 July 2020 – 30 June 2021 Busuanga, Palawan, Philippines		University of the Philippines Los Baños (UPLB)  Kansas State university  Department of Education – Division of Busuanga, Palawan
Agricultural Transformation and Market Integration in the ASEAN Region: Responding to Food Security and Inclusiveness	Ongoing	15 February 2017 – 31 December 2020 Extension: 31 May 2021  Philippines, Vietnam, Myanmar, Cambodia, Lao PDR	IFAD: USD1,266,736 SEARCA: USD201,135	International Fund for Agricultural Development (IFAD)  International Food Policy Research Institute (IFPRI)
Case Study Researches on Public Policies on Family Farming in Asia and the Pacific (Philippines, Indonesia, Vietnam)	Completed	27 April – 31 October 2020  Philippines, Indonesia, Vietnam	IFAD: USD 36,855	IFAD
Rural Regional Transformation: Pathways, Policy Sequencing, and Development Outcomes in China, the Philippines, and Vietnam (SEARCA implements the Philippine component)	Ongoing	15 Sept 2017 – 30 September 2020 Extension: 31 March 2021  Closure Date: 30 September 2021  China, the Philippines, and Vietnam	IGSNRR: USD 140, 326	Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences  Peking University  The Institute of Policy and Strategy for Agriculture and Rural development (IPSARD)

Upgrading the Calamansi Value Chain towards Improving the Calamansi Industry of Oriental Mindoro	Ongoing	October 2018 – October 2020  Extension: 30 April 2021  Municipalities of Victoria, Naujan and Pola in Oriental Mindoro, Philippines	DA-BAR: PHP 9,994,160	University of the Philippines Los Baños (UPLB)  Mindoro State College of Agriculture and Technology (MinSCAT)  Local Government Units of Victoria and Oriental Mindoro  Tokyo NODAI  Victoria Kalamansi Farmers Federation (VKFF)
Implications of ASEAN Economic Community (AEC) and Trade and Investments on Regional Food Security	Ongoing	1 September 2016 – 30 September 2020  Scope: ASEAN member countries (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam)	UC: USD 10,000 SEARCA: USD 10,000	Universitas Gadjah Mada (UGM)  Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC)
AgPractices & Domains and Platform	Ongoing	1 October 2020 - 31 October 2021  Philippines and Myanmar	USQ: USD34,288 SEARCA: USD 400 and PHP 75,000	University of Southern Queensland (USQ)  University of the Philippines Los Baños  University of Computer Science Yangon
Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilization of Digital Technologies	New/ Ongoing	16 November 2020 - 31 October 2021  ASEAN member countries (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam)	USD 33,400	Economic Research Institute for ASEAN and East Asia (ERIA)  ASEAN Secretariat  Nanyang Technological University  International Food Policy Research Institute (IFPRI)  University of Tokyo  University of Wisconsin  University of Technology, Wien, Austria
CC SEA Healthy School Canteen Policies and Best Practices (Publication)	New/ Ongoing	November 2020 - February 2022  SEAsian countries (Brunei, Myanmar, Cambodia, Timor-Leste, Indonesia, Laos, Malaysia, the Philippines, Singapore, Thailand and Vietnam)		RECFON
Final Performance Evaluation of Project Wildlife Activity (USAID)	New/ Completed	20 July 2020 – 15 February 2021  Palawan, Zamboanga City and General Santos City	USD 165,000	
End-of-Term Review of Philippines Agribusiness Program (Worldbank)	New/ Completed	September – December 2020  Philippines	USD 26,529	Sycip Gorres Velayo & Co.

ADB-funded: TA-9681 REG: Southeast Asia Agriculture, Natural Resources and Rural Development Facility - 02 Formulation of the National Agriculture and Fisheries Modernization and Industrialization Plan (NAFMIP)	New/Ongoing	1 October 2020 - 16 April 2021 Philippines	USD160,000	
Project SAYA: Strengthening Agricultural Yield of Allium cepa L. (Onion) in the Philippines	New/Ongoing	1 April 2021 – 31 December 2021 Ilocos Sur Occidental Mindoro, Philippines	JGF: PHP 1,500,000 SEARCA: 665,250	Jollibee Group Foundation, Inc. (JGF)

#### Annex 16. SEARCA Seed Fund for Research and Training Grants, FY 2020/2021

Name (Gender)	Date of Award	Country/ Institution	Field of Study	Title of Research
<b>Ongoing Grantees (24)</b>				
Dr. Gregorio Y. Ardales, Jr. (M)	27 March 2020	Philippines/ UP Rural High School	Youth, agriculture education	Skill Advancement of Grade 11 Students on Agriculture Through Research and Practical Applications as a Pathway to Food Security and Economic Development
Mr. Paul Neilmer M. Feliciano and Mr. Manuel Leopold F. Albis (M)	1 April 2020	Philippines/ University of the Philippines	Free trade, agriculture	Do Free Trade Agreements Spur Agricultural Trade and Promote Greater Integration: An Empirical Analysis on ASEAN-China Free Trade Agreement
Dr. Jones T. Napalmed (M)	1 April 2020	Philippines/ Benguet State University	Biodiversity	Re-description and Documentation of Floral Diversity in Cordillera Central Range, Northern Philippines amidst Rampant Forest Conversion into Vegetable Farms: An Important Foundation for Biodiversity Conservation
Dr. Noris Mohd Norowi (F)	27 March 2020	Malaysia/ Universiti Putra Malaysia	Youth, education	Bridging the Urban-Rural Divide on Knowledge Dissemination and Learning Process of Secondary School Children from Lower Income Families Working in the Agricultural Sector in Rural Areas in Malaysia
Ly Quoc Dang (M)	1 April 2020	Vietnam/ Mekong Youth Network	Youth, agriculture	Mekong Youth and Sustainable Agriculture Interactions
Mr. Rhomir Samiley Yanquiling (M)	20 June 2019	Philippines/ Sustainability and Local Dev't Center	Climate change, finance	Demystifying Climate Adaptation Finance for the Poor Rural-Agricultural Communities and the Vulnerable Sector: The Case of the People's Survival Fund in the Philippines
Mr. Edison Roi Macusi (M)	20 June 2019	Philippines/ Davao Oriental State College of Science and Technology	Socioeconomic impacts, governance, fisheries	Biological and Socioeconomic Impacts of the Closure Fishing Ban in Davao Gulf and the Zamboanga Peninsula: Relevance of Effort Distribution and Role of Governance
Dr. Nguyen Van Kien (M)	20 June 2019	Vietnam/ An Giang University	Organics, social perception	Social Perception of the Organics Industry in Vietnam
Dr. Le Thi Thanh Loan (F)	20 June 2019	Vietnam/ Vietnam National University of Agriculture	Food and nutrition security	Food and nutrition security of poor households in Tuong Duong district, Nghe An province, Vietnam

Name (Gender)	Date of Award	Country/ Institution	Field of Study	Title of Research
Ms. Duyen My Thi Trang (F)	11 June 2018	Research Center for Rural Development (RCRD) of An Giang University	Value chain, crop production, food security	A Study on Value Chain of Palm Sugar Products and Income of Poor Khmer Ethnic Group in Chau Lang Commune, Tri Ton District, An Giang Province, in the Mekong Delta, Vietnam
Dr. Thong Anh Tran (M)	11 June 2018	Research Center for Rural Development, An Giang University	Climate change, salinity	Freshening Salinity Areas: Implications of Ba Lai Irrigation Scheme for Agro-ecosystems and Household Adaptation in Binh Dai district, Ben Tre Province
Dr. I Wayan Budiasa M.Sc. (M)	11 June 2018	Faculty of Agriculture Udayana University	Agricultural cooperative, agribusiness	Agricultural Co-operative Model Making for Supporting Sustainable Subak-based Agribusiness Development within the UNESCO World Heritage Site, Bali – Indonesia
Mrs. Quynh Thi Thanh Dang (F)	11 June 2018	Research Center for Rural Development – An Giang University	Ecosystem, forestry, rural community	Understanding Relationships between Providing Ecosystem Services of Forest and Rural Livelihoods: A Case Study in Le Tri Commune, Tri Ton District, An Giang Province, Vietnam
Ms. Thuy Thi Bich Nguyen (F)	11 June 2018	Department of Rural Economics, Faculty Extension and Rural Development, of Hue University of Agriculture and Forestry	Climate change, resilience, sustainable agriculture	Building Sustainable Community-based Disaster Resilience and Proposing Effective Agricultural Production for Livelihood Development to Sampan Dwellers in Central Vietnam
Dr. Ngo Thi Thanh Truc (F)	23 October 2017	Vietnam/ Department of Environmental Economics, College of Economics, Can Tho University	Renewable energy, biogas	Developing Sustainable Biogas Solutions from Biomass in the Mekong Delta, Vietnam: Options and barriers for Increased Usage of Biomass Among Farmers and Households to Reduce Greenhouse Gas Emissions and Lower Energy Costs
Dr. Asnarulkhadi Aby Samah (F)	23 October 2017	Malaysia/ Institute for Social Science Studies, Universiti Putra Malaysia	Climate change adaptation, aquatic resources	The Islanders Small-scale Fishermen Adaptation towards Climate Change Impacts in Malaysia
Nuva Nuva (F)	9 Feb 2016	Indonesia/ Department of Resource and Environmental Economics, Faculty of Economics and Management – Institut Pertanian Bogor (IPB)	Marine aquaculture, Blue Economy	Integrating Marine Aquaculture with Seaweed Farming in Supporting Community's Livelihood towards Blue Economy Implementation in Lombok, Indonesia
Tri Rini Nuringtyas (F)	18 Feb 2016	Indonesia/ Research Center for Biotechnology, Universitas Gadjah Mada (UGM)	Rice, pigmented rice production	Development of Pigmented Rice for Rural Community

<b>Name (Gender)</b>	<b>Date of Award</b>	<b>Country/ Institution</b>	<b>Field of Study</b>	<b>Title of Research</b>
Rodelio F. Subade (M)	4 Feb 2016	Philippines/ Division of Social Sciences, College of Arts and Sciences, University of the Philippines Visayas (UPV)	Economic valuation, ecosystems	Integrated Economic Valuation for Inclusive Conservation and Sustainability of Coastal Ecosystem Services: A Case for Taklong Island National Marine Reserve, Guimaras
Le Thanh Phong (M)	9 Feb 2016	Vietnam/ Deputy Director of Research Centre for Rural Development, An Giang University	Rice production	Assessment of Traditional Rice Based Farming Systems for Adaptation to Climate Change in the Mekong Delta
Nguyen Van Thai (M)	9 Feb 2016	Vietnam/ Research Center for Rural Development, An Giang University, Vietnam	Water management, gender roles	Gender roles in water management/ Gender Roles and Relationships: Ethnic Women's Participation in Water Management (A Case Study in O Lam Commune, Tri Ton District, An Giang Province, Vietnam)
Huynh Viet Khai (M)	9 Feb 2016	Vietnam/Can Tho University	Rice production, climate change adaptation	Climate Change Impact on Rice Production and Adaptation: A Case Study of Salinity Intrusion in Coastal Areas of the Mekong Delta, Vietnam
Seinn Seinn Mu (F)	18 Feb 2015	Myanmar/ Ministry of Agriculture and Irrigation	Rice production systems	Impact of Rural Out Migration on the Resilience of Agricultural System of Rice Farmers in Lower Ayeyarwady Delta, Myanmar
Reynold D. Tan (M)	6 Mar 2015	Philippines/ College of Management, University of the Philippines Visayas	Value chain	Quality Degradation of Milkfish (Chanos chanos) along the Food Value Chain: An Assessment in Municipalities with High Incidence of Malnutrition in the Province of Iloilo
<b>Forfeited Grantee (1)</b>				
Dr. Carlito de Araujo (M)	20 June 2019	Timor-Leste/ Universidade Nacional de Timor Loro Sa'e	Livestock, pig productivity	Determination of the Factors Limiting Pig Productivity in Timor-Leste
<b>Completed Grantees (13)</b>				
Dr. Budi Santosa (M)	23 October 2017	Indonesia/ Center of Food and Food Sovereignty Tribuwana Tunggaladewi, University Malang	Nucleus estate model, food production	Home Industry Development for the Production of Modified Tannia Cocoyam Flour as Medium Product in Nucleus Estate Smallholder (NES) Model of Instant Noodle Production
Dr. Long Hoang (M)	23 October 2017	Vietnam/ Center for Consultancy, Training Cooperation, and Technology Transfer, Da Nang Institute for Socio Economic Development	Value chain, agricultural cooperatives	Enhancing Linkages of Agricultural Cooperatives in the Agricultural Value Chain Towards Promotion of Local Food Movement in Danang, Vietnam

Name (Gender)	Date of Award	Country/ Institution	Field of Study	Title of Research
Mr. Dang Minh Man (M)	23 October 2017	Vietnam/ Research Center for Rural Development, An Giang University	Climate change adaptation, coastal livelihood vulnerability	Exploring Livelihood Vulnerability and Adaptation to Saltwater Intrusion and Droughts in Two Coastal Communities in Mekong Delta: A Case Study in Lich Hoi Thuong Commune, Tran De District, Soc Trang Province
Viet The Ho (M)	9 Feb 2016	Vietnam/ University of Food Industry	Genetic characterization and development	Genetic Characterization and Development of Molecular Markers for Longan Variety Authentication in Vietnam
Latifah Adb Manaf (F)	18 Feb 2015	Malaysia/ Universiti Putra Malaysia	Biodiversity, food security	An Integrated Assessment of the Impacts of Paddy Lands Conversion on Biodiversity and Food Security in Kedah, Malaysia
KGS Ahmadi (M)	18 Feb 2015	Indonesia/ Center of Food and Feed Sovereignty, Tribhuwana Tunggal University Malang	Socio-economic impact assessment, food production	Nucleus Estate Smallholder (NES) Model of MOCAF Instant Noodle Production for Sustaining and Increasing Income of Cassava Farmers in Blitar Region, East Java, Indonesia
Ma. Dulce J. Mostoles (F)	13 Feb 2014	Philippines/ Central Bicol State University of Agriculture	Sustainable production, beekeeping	Community-based Approach to Sustainable Utilization, Management and Development of Beekeeping in Sorsogon
Jennifer Marie S. Amparo (F)	11 Feb 2016	Philippines/ Department of Social Development Services, College of Human Ecology, University of the Philippines Los Baños (UPLB)	ISARD communities	An Analysis of Smallholder Commodity Systems using an Integrative Systems-based Framework in Two Pilot ISARD Communities in the Philippines
Fenny Martha Dwivany (F)	9 Feb 2016	Indonesia/ Bioscience and Biotechnology Research Center, Institut Teknologi Bandung - School of Life Science and Technology, Institut Teknologi Bandung	Agro-industry, pest control and management	The Use of Biomaterial Nano-chitosan as Biofungicide against Phytophthora capsici on Six Chillies Cultivars in West Java Province Indonesia for Sustainable Agro Industry Applications
Mac Nhu Binh (M)	18 Feb 2015	Vietnam/Hue University of Agriculture and Forestry	Climate change adaptation, fisheries	Assessment of Impacts of and Adaptation to Climate Change in Fisheries and Agriculture in the Coastal area of Thua Thien Hue Province, Vietnam
Ngo Thanh Son (M)	9 Feb 2016	Vietnam/ Vietnam National University of Agriculture, Vietnam	Climate and land use change	Use of ICT to Assess Climate and Land Use Changes Impacts on Hydrological Responses and Sediment Yield for future Land Use Planning and Sustainable Water Management - A Case Study in the Upper Ma River Basin, Northwestern Vietnam
Gusti Ayu Komang Sri Mahayuni (F)	18 Feb 2015	Indonesia/IDEP Foundation	Resources management	Local Balinese Seeds Preservation Project 2015

Name (Gender)	Date of Award	Country/ Institution	Field of Study	Title of Research
Dang Kim Khoi (M)	9 Feb 2016	Vietnam/Center for Agricultural Policy (CAP) of Institute of Policy and Strategy for Agriculture and Rural Development (IPSARD)	Climate smart agriculture (CSA) models	Review and Assessment of Climate Smart Agriculture (CSA) Models in Vietnam, Selection and Proposal of Appropriate CSA Models for Replication

#### Annex 17. SEARCA Travel Grants, FY 2020/2021

Name (Gender)	Country/ Position/ Institution	Title/Date/Venue of Conference Attended	Title of Research/ Paper Presented
Vina Eka Aristya	Indonesia	3rd Asian Short Course on Agribiotechnology, Biosafety Regulation, and Communication	Attended as participants. No paper presentations.
Liezel M. Atenza	Philippines	23-26 November 2020, Zoom	
Damcille Torres-Cortez	Philippines		
Melodee Marciana De Castro	Philippines		
Reniel Pamplona	Philippines		
Christina Yong Seok Yien	Malaysia		

#### Travel Grants Awardees Paper Presentations (ADSS or SEARCA-organized Conferences/Seminars)

Leajim A. Villanueva, "Fragmentation Drivers in Polilio Island Key Biodiversity Area, Polilio Islands, Quezon, Philippines," SOLVE Webinar, October 21, 2020.

#### Annex 18. SEARCA Publications, FY 2020/2021

##### Books/Monographs (17)

- Bihis, Dennis L., Flore May F. Calanasan, Emilio M. Mejia, Jr. Corazon T. Aragon, Cesar B. Quicoy, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Cacao Wine*. SEARCA, Los Baños, Laguna, Philippines.
- Lagdameo, Marilou, Corazon T., Antonio Jesus A. Quillooy, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Soya Chips*. SEARCA, Los Baños, Laguna, Philippines.
- Dela Cruz, Leonilo, Corazon T. Aragon, Cesar B. Quicoy, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Soybean Roast*. SEARCA, Los Baños, Laguna, Philippines.
- Jover, Priscilla C., Corazon T. Aragon, Cesar B. Quicoy, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Soy Baby Food*. SEARCA, Los Baños, Laguna, Philippines.
- Andayog, Aida S., Corazon T. Aragon, Bates M. Bathan, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Seaweed Products*. SEARCA, Los Baños, Laguna, Philippines.
- Dorris N. Gatus Veronica Aurea A. Rufo Nemia C. Pelayo Corazon T. Aragon Bates M. Bathan Nikka Marie P. Billedo Rebeka A. Paller. 2020. *Technology and Investment Profile of Malunggay Products*. SEARCA, Los Baños, Laguna, Philippines.
- Sobrevega, Peter S., Corazon A. Arroyo, Elizabeth F. Amit, Nora T. Garpa, Corazon T. Aragon, Antonio Jesus A. Quillooy, Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Batuan Products*. SEARCA, Los Baños, Laguna, Philippines.
- Wilhelmina P. Castaneda Sylvia R. Igarita Jat-R A. Baligat Corazon T. Aragon Nikka Marie P. Billedo, and Rebeka A. Paller. 2020. *Technology and Investment Profile of Improved Native Garlic*. SEARCA, Los Baños, Laguna, Philippines.
- Librada L. Fuentes Corazon T. Aragon Bates M. Bathan Nikka Marie P. Billedo Rebeka A. Paller. 2020. *Technology and Investment Profile of Cashew Products*. SEARCA, Los Baños, Laguna, Philippines.
- Rose Mary G. Aquino Vanessa Joy F. Calderon Corazon T. Aragon Nikka Marie P. Billedo Rebeka A. Paller. 2020. *Technology and Investment Profile of Pinoy Gournix*. SEARCA, Los Baños, Laguna, Philippines.
- Jayanegara, A. 2020. "The Use of Tannin for Enhanced Ruminant Production, Mitigation of Enteric Methane Emission and Alteration of Fatty Acid Profile in Beef." *SEARCA Regional Professorial Chair Lecture 4*. SEARCA, Los Baños, Laguna, Philippines.
- Buot, Inocencio Jr. E. (ed.). 2020. *Methodologies Supportive of Sustainable Development in Agriculture and Natural Resources Management: Selected Cases in Southeast Asia*. SEARCA, Los Baños, Laguna, Philippines.
- Lando, Lily Ann D., Pedcris M. Orenco, Jose R. Medina, et al. 2021. *SEED GUIDEBOOK: Scaling and Expanding for Effective Development the Experiences and Learning from the SEARCA Project ISARD*. SEARCA, Los Baños, Laguna, Philippines. <https://www.SEARCA.org/pubs/books?pid=500>

- Dela Cruz, Thomas Edison E., Hannah Jane F. Din, and Jeane V. Aril-dela Cruz. 2021. "Microbes for Sustainable Agriculture: Isolation and Identification of Beneficial Soil- and Plant-Associated Microorganisms." *Regional Professorial Chair Lecture* No. 6. SEARCA, Los Baños, Laguna, Philippines. <https://www.SEARCA.org/pubs/monographs?pid=498>
- Jueco-Domingo, Clarissa Yvonne. 2021. "Novel Diagnostics for Transboundary Animal Diseases." *Regional Professorial Chair Lecture* No. 5. SEARCA, Los Baños, Laguna, Philippines. <https://www.SEARCA.org/pubs/monographs?pid=497>
- Bouahom, Bounthong, and Dethsackda Manikham. 2021. "Agriculture Policy and Institutional Reforms in Lao-PDR: Experiences, Impacts, and Lessons." *Southeast Asian Agriculture and Development Primer Series 2nd Edition*. SEARCA, Los Baños, Laguna, Philippines. <https://www.SEARCA.org/pubs/monographs?pid=501>
- Afuang, L.E., Cielo, K.L. and Castro, N.D.G. (eds). 2021. *Mindoro Treasures: Teaching Reference for Environment Awareness and Sustainable Use of Resources*. Los Baños, Laguna/Calapan, Mindoro Oriental: SEARCA/MBCFI: Los Baños, Laguna, Philippines. <https://www.SEARCA.org/pubs/books?pid=496>

#### Journal Articles (16)

- AJAD vol. 7 no. 2 (December 2020 issue) <https://doi.org/10.37801/ajad2020.17.2>
- Crowley, Megan Z. 2020. "Foreign Labor Shortages in the Malaysian Palm Oil Industry: Impacts and Recommendations." *Asian Journal of Agriculture and Development* 17:2 (1-18). <https://doi.org/10.37801/ajad2020.17.2.1>
- Mataia, Alice, Jesusa Beltran, Rowena Manalili, Betzaida Catudan, Nefriend Francisco, and Adrielle Flores. 2020. "Rice Value Chain Analysis in the Philippines: Value Addition, Constraints, and Upgrading Strategies." *Asian Journal of Agriculture and Development* 17:2 (19-42). <https://doi.org/10.37801/ajad2020.17.2.2>
- Barmon, Basanta Kumar, and Sanzidur Rahman. "Sustaining Rice Productivity, Soil Fertility, and Income from Prawn-Rice Joint Culture in the Gher System in Bangladesh." *Asian Journal of Agriculture and Development* 17:2 (43-62). <https://doi.org/10.37801/ajad2020.17.2.3>
- Devkota, Niranjana and Nirash Pajja. 2020. "Impact of Climate Change on Paddy Production: Evidence from Nepal." *Asian Journal of Agriculture and Development* 17:2 (63-78). <https://doi.org/10.37801/ajad2020.17.2.4>
- Shilpa S K. 2020. "Emergence of Producer Companies as Innovative Institutions for Agriculture Development in India: Issues and Challenges." *Asian Journal of Agriculture and Development* 17:2 (79-92). <https://doi.org/10.37801/ajad2020.17.2.5>
- Zapico, Florence L., Josefina T. Dizon, Edwino S. Fernando, Teresita H. Borromeo, Kenneth L. McNally, and Jose E. Hernandez. 2020. "Upland Rice: Cultural Keystone Species in a Philippine Traditional Agroecosystem." *Asian Journal of Agriculture and Development* 17:2 (93-104). <https://doi.org/10.37801/ajad2020.17.2.6>
- Sharma, Ravi and Nisha Bharti. 2020. Non-timber Forest Products Value Chain Toward Sustainable Livelihood: Exploring Linkages and Trends Using Visual Optimization Network Analysis." *Asian Journal of Agriculture and Development* 17:2 (105-118). <https://doi.org/10.37801/ajad2020.17.2.7>
- Lee, Suyeon. 2021. "In the Era of Climate Change: Moving Beyond Conventional Agriculture in Thailand." *Asian Journal of Agriculture and Development* 18(1): 1-14. <https://doi.org/10.37801/ajad2021.18.1.1>
- Kim Khoi, Dang, Doan Minh Thu, Le Thi Ha Lien, et al. 2021. "Assessing the Performance of Climate Smart Rice Production Systems in the Upper Part of the Vietnamese Mekong River Delta." *Asian Journal of Agriculture and Development* 18(1): 15-29. <https://doi.org/10.37801/ajad2021.18.1.2>
- Le, Thi Quynh Anh, Yasuharu Shimamura, Hiroyuki Yamada. 2021. "Information Acquisition and Conservation Farming Practices for Sustainable Agriculture in Rural Vietnam." *Asian Journal of Agriculture and Development* 18(1): 32-48. <https://doi.org/10.37801/ajad2021.18.1.3>
- Mina, Ceptryl S., Salvador P. Catelo, Carolyn D. Jimenez. 2021. "Productivity and Competitiveness of Garlic Production in Pasuquin, Ilocos Norte, Philippines." *Asian Journal of Agriculture and Development* 18(1): 50-63. <https://doi.org/10.37801/ajad2021.18.1.4>
- Onori, Federica, Preeti Dhillon, Konsam Dinachandra, et al. 2021. "An Adaptation of the Food Insecurity Experience Scale (FIES) for Measuring Food Insecurity among Women in Socially-Backward Communities." *Asian Journal of Agriculture and Development* 18(1): 66-82. <https://doi.org/10.37801/ajad2021.18.1.5>
- Castro, Miko Mariz C., Isabelita M. Pabuayon, Salvador P. Catelo, Jose V. Camacho, Jr. 2021. "Analyzing Consumer Preferences for Credence Attributes of Fish and Fishery Products in Davao City, Philippines." *Asian Journal of Agriculture and Development* 18(1): 84-103. <https://doi.org/10.37801/ajad2021.18.1.6>
- Baruah, Anushree, G. Madan Mohan. 2021. "Exploring the ICT Preferences of Personnel from Agricultural Extension Organizations in the Northeastern Region of India." *Asian Journal of Agriculture and Development* 18(1): 106-120. <https://doi.org/10.37801/ajad2021.18.1.7>
- Puttanapong, Nattapong. 2021. "BOOK REVIEW: China: Surpassing the Middle Income Trap." *Asian Journal of Agriculture and Development* 18(1): 121-122. <https://doi.org/10.37801/ajad2021.18.1.b1>
- Godo, Yoshihisa. 2021. "BOOK REVIEW: Waking the Asian Pacific Co-operative Potential." *Asian Journal of Agriculture and Development* 18(1): 124-125. <https://doi.org/10.37801/ajad2021.18.1.b2>

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#### Annex 19. SEARCA News Releases, FY 2020/2021

Date	Publication	Title
<b>2020</b>		
2 Jul	The Manila Times (print and online)	SEARCA kicks off agri innovation plan
5 Jul	Manila Standard (print and online)	SEARCA begins 11FYP to push agri innovation
9 Jul	The Manila Times (print and online)	HEIs R&D priorities key to food security amid pandemic – agri experts
12 Jul	Manila Standard (print and online)	Role of HEIs, R&D priorities in food security during pandemics cited
17 Jul	BusinessMirror (print and online)	Asean research center unveils new strategy to push agri innovation
20 Jul	BusinessMirror (print and online)	Experts: Harness 'intellectual capital' of HEIs to boost PHL food security
20 Jul	BusinessWorld (print and online)	Philippine food security seen depending on maximizing research
23 Jul	The Manila Times (print and online)	SEARCA: Knowledge economy to boost food security
24 Jul	Manila Standard (print and online)	SEARCA, Shell arm ink agri training, research pact
27 Jul	Borneo Bulletin (print and online)	Agricultural innovation plans for Southeast Asia launched
27 Jul	Ministry of Information, Cambodia (online)	SEARCA Launches Agricultural Innovation Plan
28 Jul	Khmer Times (online)	SEARCA launches agricultural innovation plan
4 Aug	BusinessWorld (print and online)	Farm output likely shrank in 2nd quarter
5 Aug	Manila Standard (print and online)	Quezon, SEARCA set plan for coco industry
6 Aug	BusinessWorld (print and online)	Agricultural output edges up in Q2
6 Aug	Philippine Information Agency (online)	SEARCA to support Quezon coconut industry development
6 Aug	Big News Network (online)	Philippines Quezon province coconut industry development gets boost
6 Aug	Hong Kong News (online)	Southeast Asian regional body to support Philippine coconut farmers
6 Aug	Manila Metro (online)	SEARCA to get behind regional coconut industry
6 Aug	Malaysia Sun (online)	SEARCA to get behind regional coconut industry
6 Aug	Hong Kong Herald (online)	SEARCA to get behind regional coconut industry
6 Aug	Nepal National (online)	SEARCA to get behind regional coconut industry
6 Aug	Sierra Leone Times (online)	SEARCA to get behind regional coconut industry
6 Aug	Ohio Standard (online)	SEARCA to get behind regional coconut industry
9 Aug	The Manila Times (print and online)	SEARCA supports Quezon coconut industry
10 Aug	Manila Bulletin (print and online)	Research project to detect, treat animal diseases gets gov't funding
12 Aug	Manila Standard (print and online)	SEARCA kicks off youth program for agri innovation

Date	Publication	Title
13 Aug	POPNEWS! (online)	SEARCA launches youth program for agri innovation
14 Aug	Philippine Information Agency (online)	SEARCA launches youth program for agri innovation
14 Aug	POPNEWS! (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Philippine Information Agency (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Southeast Asia News (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Lao News (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Philippine Times (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Big News Network (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Philippines News (online)	Universities and colleges can spark agri food systems transformation
14 Aug	Tajikistan News (online)	Universities and colleges can spark agri food systems transformation
17 Aug	My Pope Philippines (online)	LOOK: New Video Contest Promotes Youth Involvement in Agriculture
19 Aug	The Manila Times (print and online)	Agri panel reconstituted to reduce poverty, boost growth
19 Aug	Manila Bulletin (print and online)	Gov't reconstitutes tech panel for agriculture amid COVID-19 pandemic
20 Aug	The Manila Times (print and online)	CHED picks SEARCA head for HEIs agri curriculum reforms
20 Aug	The Manila Times (print and online)	SEARCA launches youth program for agricultural innovation
23 Aug	BusinessMirror (print and online)	SEARCA launches youth program for agri innovation
24 Aug	Agence Kampuchea Presse (online)	Video Contest on Youth Producing Food during the Pandemic Open to Cambodians, Other Southeast Asians
24 Aug	Philippine Information Agency (online)	CHED appoints SEARCA Director as Chairperson of Technical Panel for Agriculture
25 Aug	Khmer Times (online)	Video Contest on Youth Producing Food during the Pandemic Open to Cambodians, Other Southeast Asians
27 Aug	The Manila Times (print and online)	'HEIs can spark agri food systems transformation'
3 Sept	The Manila Times (print and online)	SEARCA launches contest for youth farmers
7 Sept	Philippine Information Agency (online)	Southeast Asia-wide photo contest searches for faces of agricultural innovation
15 Sept	Philippine Information Agency (online)	Farmers train on good agricultural practices for emerging commodities amid COVID-19 pandemic
16 Sept	Philippine Information Agency (online)	SEARCA leads development of national roadmap for PH pork-based processed products value chain
17 Sept	The Manila Times (print and online)	SEARCA, BPI train farmers amid COVID pandemic
19 Sept	The Manila Times (print and online)	Improved native garlic to check low output
19 Sept	Manila Bulletin (print and online)	PH pork value chain roadmap mulled
19 Sept	Manila Bulletin (print and online)	Southeast Asia-wide photo contest searches for faces of agricultural innovation
23 Sept	Borneo Bulletin (print and online)	Chance to win USD1,000 in photo contest
24 Sept	The Manila Times (print and online)	SEARCA to take lead on swine roadmap
28 Sept	The Manila Times (print and online)	Camarines' soya chips help kids with autism
1 Oct	The Manila Times (print and online)	DA-Ilocos project aims to boost garlic industry
1 Oct	The Manila Times (print and online)	'Dilis flour, malunggay powder show promise'
7 Oct	Manila Bulletin (print and online)	16 academic institutions tapped to assist LGUs on climate change action plan
8 Oct	The Manila Times (print and online)	SEARCA study cites 'batuan' potential
8 Oct	DZMJ Online	SEARCA, APPGeese, Inc. to develop pilot digital agriculture platform in PH
9 Oct	Philippine Information Agency (online)	SEARCA, APPGeese, Inc. to develop pilot digital agriculture platform in PH
9 Oct	BusinessMirror (print and online)	SEARCA leads development of national road maps for agriculture value chain in Asean
10 Oct	Rappler	SEARCA, CHED to hold training-workshop on Agriculture 4.0 for higher education institutions
11 Oct	The Philippine Star (print and online)	SEARCA, startup to pilot digital agri platform
13 Oct	Philippine Information Agency (online)	37 PH colleges and universities to train on research project development for Agriculture 4.0

<b>Date</b>	<b>Publication</b>	<b>Title</b>
15 Oct	The Manila Times (print and online)	SEARCA, CHEd prepares schools for Agriculture 4.0
18 Oct	BusinessMirror (print and online)	SEARCA launches 'innovEIGHTs' model for open ties in agriculture
22 Oct	The Manila Times (print and online)	SEARCA's EIG program seeks collaboration
23 Oct	Philippine Information Agency (online)	Agri and rural development leaders set to gather at SEARCA Stakeholders Forum
25 Oct	BusinessMirror (print and online)	SEARCA: Integrate agricultural biotech in variety development up to marketing
28 Oct	Horti Daily (online)	Philippines: Innovation Olympics 2.0 opens for developing new farming technologies
29 Oct	The Manila Times (print and online)	SEARCA integrates agri biotech in commercialization
29 Oct	Philippine Information Agency (online)	Southeast Asian center intensifies development support to Laguna province
1 Nov	BusinessMirror (print and online)	Filipinos sweep Southeast Asian 'Youth CoviDeo Contest'
5 Nov	Philippine Information Agency (online)	Innovation Olympics 2.0 for Filipino youth deadline set on Nov 7
5 Nov	The Manila Times (print and online)	SEARCA boosts devt support for Laguna
5 Nov	Manila Bulletin (print and online)	Innovation needed to boost the country's garlic production
5 Nov	Philippine Information Agency (online)	Calamansi farmers train on product development, waste utilization
6 Nov	The Philippine Star (print and online)	Native garlic seen to raise local sufficiency
6 Nov	Fresh Plaza (online)	Innovations needed to boost garlic production in Philippines
8 Nov	Diaryong Tagalog (online)	Innovation Olympics 2.0 application deadline extended until Nov. 17
8 Nov	BusinessMirror (print and online)	'Untapped potential exists for animal biotechnology'
9 Nov	BusinessWorld (print and online)	Palay performance pointing to improved agriculture output
12 Nov	The Manila Times (print and online)	Native garlic makes a comeback
12 Nov	The Manila Times (print and online)	Mindoro calamansi farmers train on product devt
12 Nov	The Manila Times (print and online)	Innovation Olympics 2.0 sets Nov 17 registration deadline for university students
15 Nov	BusinessMirror (print and online)	Innovation Olympics 2.0 for agriculture deadline of application on Nov. 17
17 Nov	The Post (online)	Young Innovators to Complete in Agri Olympics
17 Nov	Manila Bulletin (print and online)	Floods wash away agri growth potential
17 Nov	Manila Standard (print and online)	'Ulysses' toll on rice industry to hit P34b
18 Nov	The Philippine Star (print and online)	Ulysses seen to bring down agriculture performance in Q4
18 Nov	People's Bulletin (online)	'Ulysses' toll on rice industry to hit P34b
18 Nov	Philippine Information Agency (online)	SEARCA bats for transformative innovation amid pandemic
18 Nov	Daily Guardian (online)	Fishers, aquaculture farmers to benefit from SEARCA-NACA partnership
19 Nov	BusinessWorld (print and online)	Dismal fourth-quarter farm output expected
20 Nov	Malaya Business Insight (print and online)	Agri output decline likely in Q4
23 Nov	Manila Bulletin (print and online)	SEARCA tells Filipino plant breeders to use genomics in crop dev't
26 Nov	Daily Guardian (online)	SEARCA sets Nov. 30 deadline for photo contest on agricultural innovation
26 Nov	The Manila Times (print and online)	SEARCA sets Nov. 30 deadline for photo contest
26 Nov	Manila Bulletin (print and online)	SEARCA sets Nov. 30 deadline for photo contest on agricultural innovation
3 Dec	The Manila Times (print and online)	DepEd Sec. Briones urges integration of MA, PhD level researches into basic curriculum
3 Dec	The Manila Times (print and online)	SEARCA-NACA partnership to benefit fishermen
3 Dec	The Post (online)	Sec. Briones wants agriculture taught in basic education
4 Dec	Manila Bulletin (print and online)	Biotech crops seen as a greener solution for PH, other countries
4 Dec	Philippine Information Agency (online)	Integrate master's, PhD level researches into basic education curriculum - DepEd Sec. Briones
5 Dec	Big News Network (online)	Experts discuss biotech crops as a greener solution
5 Dec	Philippine Information Agency (online)	Experts discuss biotech crops as a greener solution
5 Dec	Khmer Times (online)	Food security research grants to address COVID-19 impacts available to Cambodians, other Southeast Asian nations

Date	Publication	Title
5 Dec	Agence Kampuchea Presse (online)	Food security research grants to address COVID-19 impacts available to Cambodians, other Southeast Asian nations
6 Dec	BusinessMirror (print and online)	Briones: Integrate master's, PhD level researches into basic education curriculum
6 Dec	BusinessMirror (print and online)	Experts: Biotech crops benefit agricultural biodiversity
16 Dec	Philippine Information Agency (online)	SEARCA inks Memorandum of Understanding with Tarlac Agri U
17 Dec	Malaysia Sun (online)	3 PH universities partner with SEARCA on agricultural innovation
17 Dec	Philippines News (online)	3 PH universities partner with SEARCA on agricultural innovation
17 Dec	Philippine Information Agency (online)	3 PH universities partner with SEARCA on agricultural innovation
17 Dec	The Manila Times (print and online)	SEARCA, IFS offer grants for food security
17 Dec	The Manila Times (print and online)	Seameo marks 55 years of promoting quality education
20 Dec	BusinessMirror (print and online)	Southeast Asian body promoting quality education turns 55
21 Dec	The Post (online)	3 Universities Partner with SEARCA on Agri Innovation
23 Dec	Daily Guardian (online)	3 PH universities partner with SEARCA on agricultural innovation
24 Dec	The Manila Times (print and online)	3 PH state universities, SEARCA ink partnership on agricultural innovation
24 Dec	The Manila Times (print and online)	3 state universities, SEARCA partner for agri innovation
26 Dec	The Manila Times (print and online)	Study: Biotech crops good for environment
26 Dec	Technology Times Pakistan (online)	Study: Biotech Crops Good For Environment
27 Dec	Manila Bulletin (print and online)	PH agri sector remains vulnerable
27 Dec	BusinessMirror (print and online)	3 PHL universities, SEARCA partner on agri innovation
<b>2021</b>		
4 Jan	BusinessWorld (print and online)	Agri prospects seen fragile due to pandemic, calamities
4 Jan	Manila Bulletin (print and online)	PH's agri sector seen growing 2.5% in 2021
5 Jan	Manila Bulletin (print and online)	DA must have concrete actions to boost PH agri sector
6 Jan	Malaya Business Insight (print and online)	Agriculture to remain robust
6 Jan	The Philippine Star (print and online)	Rice inventory up in November
7 Jan	CNN Philippines (online)	Farm output seen to shrink in Q1 2021
7 Jan	Philippine Daily Inquirer (print and online)	Farm sector seen shrinking by 1.21% in Q1
7 Jan	The Philippine Star (print and online)	Q1 agriculture output seen contracting 1.2%
7 Jan	Manila Bulletin (print and online)	Agri sector to contract by more than 1 percent in Q1
7 Jan	The Manila Times (print and online)	SEARCA sees better agri prospects for 2021
10 Jan	BusinessMirror (print and online)	Research center gives positive outlook for PHL agri for 2021
18 Jan	Good News Pilipinas (online)	AIM, NVSU represent Luzon in Innovation Olympics 2.0 finals
22 Jan	DZMJ Online	Provincial Government of Quezon and SEARCA tie up for coconut industry development
22 Jan	DZMJ Online	AIM FarmJuan team and NVSU AIRIN team recognized as Young Innovators Olympics 2.0 finalists
24 Jan	Agriculture Monthly (online)	Innovation Olympics 2.0 Luzon finalists announced
25 Jan	Philippine Information Agency (online)	Quezon provincial gov't and SEARCA partner for coconut industry development
26 Jan	BusinessWorld (print and online)	Typhoons likely hurt farm output growth
26 Jan	Open Trade Sources (online)	Typhoons likely hurt farm output growth
28 Jan	Philippine Information Agency (online)	SEARCA and SGV to hold forum on FinTech applications for agri development
28 Jan	Manila Bulletin (print and online)	Agriculture output shrinks 1.2%
28 Jan	The Manila Times (print and online)	AIM, NVSU teams named Innovation Olympics 2.0 finalists
4 Feb	Noon Break Balita (online)	Filipinos bag awards in Southeast Asian Photo Contest on Agri Innovation
5 Feb	The Manila Times (print and online)	Filipinos bag awards in Asean photo tilt
10 Feb	The Manila Times (print and online)	Quezon, SEARCA to develop province's coconut industry
14 Feb	BusinessMirror (print and online)	Filipino lensmen bag prizes in tilt on agricultural innovation in Southeast Asia

<b>Date</b>	<b>Publication</b>	<b>Title</b>
24 Feb	Philippine Information Agency (online)	FinTech key to farmers' access to financial services, supply chain efficiency
24 Feb	The Manila Times (print and online)	SEARCA: Fintech can benefit farmers
1 Mar	PIA	Emerging livestock diseases call for enhanced biosecurity measures
1 Mar	The Manila Times (print and online)	WHO chief: Brace for 'disease X'
3 Mar	Daily Guardian (online)	New SEARCA book promotes role of research in sustainable development
3 Mar	MSN News (online)	AgriEX launched in Quezon, Laguna
4 Mar	Philippine News Daily (online)	AgriEX launched in Quezon, Laguna
4 Mar	The Manila Times (print and online)	South Korean university opens graduate study scholarships to Filipinos, Southeast Asians
4 Mar	Daily Guardian (online)	Scholarships for graduate study in Korean university open to Filipinos, other Southeast Asians
4 Mar	Philippine Information Agency (online)	Scholarships for graduate study in Korean university open to Filipinos, other Southeast Asians
4 Mar	Manila Standard (print and online)	Enhanced biosecurity for livestock diseases
4 Mar	The Manila Times (print and online)	AgriEX launched in Quezon, Laguna
4 Mar	Daily Guardian (online)	AgriEX launched to help farmers become innovative agripreneurs
6 Mar	The Manila Times (print and online)	UN-FAO taps SEARCA for Palawan green project
7 Mar	BusinessMirror (print and online)	Graduate scholarships in Korea open to Filipinos, Southeast Asians
7 Mar	BusinessMirror (print and online)	FAO taps SEARCA for forest monitoring, climate finance project in Palawan
10 Mar	Manila Bulletin (print and online)	Fintech in agriculture to boost farm production
11 Mar	The Manila Times (print and online)	New book promotes role of research in sustainable development
12 Mar	Philippine Morning Post (online)	Agricultural Clusters Key to Making Small Farms Competitive
16 Mar	Malaya Business Insight (print and online)	Digital money now available to farmers
17 Mar	Frontpage PH (online)	Filipino rice scientist appointed UN Food Systems Champion
18 Mar	Philippine Morning Post (online)	Dr. Glenn B. Gregorio: UN Food Systems Champion
18 Mar	Philippine Information Agency (online)	Filipino rice scientist appointed UN Food Systems Champion
18 Mar	The Manila Times (print and online)	Digital tool for farmers launched
21 Mar	The Manila Times (print and online)	Filipino rice scientist appointed UN Food Systems Champion
21 Mar	BusinessMirror (print and online)	Filipino rice scientist appointed UN Food Systems Champion
26 Mar	CNN Philippines (online)	Pinoy rice scientist isa sa U.N. Food Systems Champions
29 Mar	The Manila Times (print and online)	PH expert is UN food systems champion
3 Apr	Daily Tribune (print and online)	Gov't urged to scrap onerous taxes burdening agri sector
5 Apr	Malaya Business Insight (print and online)	Prohibitive tax mires crop insurance growth
5 Apr	BusinessMirror (print and online)	'Cut agri insurance tax to spur farm growth'
8 Apr	The Manila Times (print and online)	Govt urged to cut agri insurance tax
9 Apr	Asian Insurance Review (online)	Philippines: Govt urged to reduce tax on non-life insurance
10 Apr	Philippine Daily Inquirer (print and online)	Gov't urged to cut agricultural insurance tax
15 Apr	The Manila Times (print and online)	SEARCA, IIRR partner for rural, agri initiatives
16 Apr	SwaDaya Media Bisnis Pertanian (online)	Balitbangtan Gandeng SEARCA Tingkatkan Kerjasama Multikomoditas di Ranah Regional
16 Apr	Manila Standard (print and online)	4 Luzon, Mindanao teams make Innovation Olympics 2.0 finals
16 Apr	Jurnas (online)	Balitbangtan Kerja Sama SEARCA terkait Penelitian Multikomoditas
17 Apr	Borneo 24 (online)	Tingkatkan Kerjasama Multikomoditas Di Ranah Regional Balitbangtan Gandeng SEARCA
18 Apr	SariAgri (online)	Balitbangtan Gandeng SEARCA Tingkatkan Multikomoditas di Ranah Regional
21 Apr	Philippine Morning Post (online)	SEARCA and Jollibee Group Foundation team up to increase local onion production
22 Apr	The Manila Times (print and online)	SEARCA, Jollibee Foundation team up to boost local onion production
22 Apr	Frontpage PH (online)	SEARCA, Jollibee Group Foundation to help boost local onion production

Date	Publication	Title
23 Apr	The Manila Times (print and online)	MinSU leads in calamansi research
25 Apr	BusinessMirror (print and online)	SEARCA, Jollibee foundation link to increase local onion production
6 May	Frontpage PH (online)	11 State U's join leadership program for academic executives
6 May	Philippine Information Agency (online)	11 state universities join leadership program for academic executives
9 May	BusinessMirror (print and online)	11 SUCs academic execs join leadership program
10 May	BusinessWorld (print and online)	Livestock sector seen weighing down on Q1 agriculture output
13 May	The Manila Times (print and online)	11 state universities join leadership program for academic executives
13 May	The Manila Times (print and online)	SEARCA optimistic on 2021 agri sector growth
16 May	Manila Bulletin (print and online)	Available local and foreign agricultural scholarships for graduate students
27 May	The Manila Times (print and online)	SEARCA tapped to help digitalize food sector
30 May	BusinessMirror (print and online)	SEARCA tapped to craft Asean guidelines on use of digital tech in food, agri sector
4 Jun	Daily Guardian (online)	PCAARRD and SEARCA inks MOU on research, tech transfer, and agri-incubation
10 Jun	The Manila Times (print and online)	Experts cite need to improve PH seed system
17 Jun	The Manila Times (print and online)	Asean food systems need transformation
27 Jun	BusinessMirror (print and online)	'Strong seed systems key to food security'

#### Annex 20. Conferences, Seminars, Workshops, and Training Courses Attended by SEARCA Staff, FY 2020/2021

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Adique, Maricel S.	Training Workshop on Animal Biotechnology for Philippine Regulators	Zoom, 24-26 August 2020	Moderator and Participant
	Symposium on Biotechnological Applications Towards a Resilient and Sustainable Agriculture	Zoom, 25 November 2020	Participant
	Mosquito-borne Diseases and the Use of Modern Biotechnology Webinar	Zoom, 26 November 2020	Participant
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Almazan, Bernisse Sabina R.	CRAFT a Recovery Marketing Plan in a Disruptive Business Environment	Virtual, 25-26 November 2020	Participant
Ancheta, Katherine H.	Basic Portfolio Management	Virtual, 10 November 2020	
	Basic Accounting for Non-Accountants	Virtual, 28-29 August 2020	Participant
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Bandong, Ruth Jazrel M.	Multi-Actor Global Exchange Meeting (GEM) - Developing the Modular Training Program on Public Policy Cycles for Family Farming	Zoom, 27 -28 July 2020	Participant
	SIBOL Webinar on "Business Models for Sustainability and Circularity"	Zoom, 11 August 2020	Participant
	Exchange Session: "Developing National Action Plans of the UNDF 2019-2028: Challenges and Opportunities in the Actual Context"	Zoom, 29 October 2020	Participant
	Coconut Value Chains in Southeast Asia: Experiences from the Philippines and Cambodia	Zoom, 11 March 2021	Participant

<b>Name of Participant</b>	<b>Title of Activity</b>	<b>Venue and Date</b>	<b>Nature of Participation</b>
Bantayan, Rosario B.	Design Workshop - Regional Climate Leadership Programme	MS Teams, 7 and 11 August 2020	Participant
	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 1: Mobilizing Your Community	Zoom, 10 September 2020	Participant
	Responsible and Inclusive Investments: Impacts on smallholder rice farmers, particularly women during COVID-19	GoToWebinar , 1 October 2020	Participant
	CFS High-level Special Event on Strengthening Global Governance of Food Security and Nutrition Partner Event 6: Youth engagement and employment in agri-food systems: What Works? What Does not Work? What Could Work?	Zoom, 14 October 2020	Participant
	World Food Day Colloquium 2020 "Future Agricultural and Food Systems: Ensuring Food Security during Crises" on Oct 16, 2020.	Whova, 16 October 2020	Participant
	Second University Consortium Faculty Forum: Agriculture and Beyond	Webex, 9-10 November 2020	Participant
	Virtual Dialogue Series for Enabling Resilience and Scaling-up Action on Climate Change Adaptation organized by the Asia Pacific Adaptation Network and the United Nations Development Program	Zoom, 12 November 2020	Participant
	Technical Forum on Greener Greens: Environmental Impact of Biotech Crops organized by AFNR-RTLD	Zoom, 23 November 2020	Technical Support
	Designing, Implementing and Evaluating Online Training Programs	Zoom and ECOP eCampus, 25, 27, and 29 January 2021	Participant
	Online Water Security and Climate Change Conference	ConfTool, 1-4 March 2021	Poster Presenter/ Participant
	SEAMEO-BC Virtual B2B meeting with Ms. Fabiana Martinez, Director of Admissions, Marketing & Communications, Canada Star Secondary School	Virtual, 16 March 2021	Participant
	SEAMEO-BC Virtual B2B meeting with Ms. Ana Vallejos, Director of International Education, Immaculata Catholic High School   Kelowna, BC	Virtual, 17 March 2021	Participant
	An Independent Dialogue Initiative for the UN Food Systems Summit 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods (hosted by the Ateneo de Manila University, Xavier University, and the Sustainable Development Solutions Network)	Zoom, 16 April 2021	Participants
	SEAMEO Congress	Virtual, 28 April 2021	Technical Support
	3rd Southeast Asian Conference on Ecnutrition (SEACONE): Ecnutrition in the Disruptive Innovation Era	Virtual, 21 May 2021	Technical Support
	RTD on Empowering ASEAN Women in Agriculture	Virtual, 7 April 2021	Participant
	Bridging the Gaps in Remote Learning: Part 2 — Using Digital Tools.	Virtual, 24 June 2021	Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Jerome Cayton Barradas	Training Workshop on Animal Biotechnology for Philippine Regulators	Zoom, 24-26 August 2020	Moderator and Participant
	Symposium on Biotechnological Applications Towards a Resilient and Sustainable Agriculture	Zoom, 25 November 2020	Participant
	Mosquito-Borne Diseases and the Use of Modern Biotechnology Webinar	Zoom, 26 November 2020	Participant
	Global Status of Commercialized Biotech/GM Crops in 2019	Zoom, 30 November 2020	Participant
	SEARCA Digital Agriculture Boot Camp	MS Teams, 10 December 2020	Participant
	British Columbia Council for International Education (BCCIE)-SEAMEO Partnership Event	Zoom, 16-17 March 2021	Participant
	Implications for the Philippines and Developing Asia	Zoom, 11 March 2021	Participant
	Social Protection, Digital Divide, and Other Issues in Online/Platform Work	Zoom, 8 April 2021	Participant
Banzuela, Elma M.	Modern Procurement and Supply Management	Virtual, 18 August 2020	Participant
Carandang, Loise Ann M.	SIBOL Webinar on "Business Models for Sustainability and Circularity"	Zoom, 11 August 2020	Participant
Richelle V. Candontol	Seminar on Waste Utilization and Product Development Opportunities in Calamansi	Zoom, 13 October 2020	Moderator and Participant
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Training on Identification of Insect Pests, Beneficial Insects, and Diseases of Calamansi and their Management	Zoom, 04 March 2021	Moderator and Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Cadiz, Monalinda B.	Stakeholders Forum: A Forward-Looking and Transformative ARD in Southeast Asia, SEARCA Headquarters, Los Baños, Laguna, Philippines	Zoom, 28 October 2021	Rapporteur
	Webinar on Journal Selection Criteria and Evaluation Process for Web of Science	Zoom, 3 March 2021	Participant
	Online Workshop on Basics of News Writing	Virtual, 11 May 2021	Participant
	Webinar: Crossref Update: The Road Ahead	Zoom, 9 June 2021	Participant
	Webinar/Workshop Series: Advanced Editing: Substance & Style (session 1 of 4 parts)	Virtual, 26 June 2021	Participant
Celecio, Raymond R.	New DOLE Department Order DO 224-21: Guidelines on Ventilation on Workplaces and Public Transport to Prevent and Control the Spread of Covid-19	Virtual, 12 March 2021	Participant
Cuaresma, Maria Cristeta N.	Webinar on Certified Impact Analyst training	Zoom, 17 October 2020	Participant
	Leading the Way: The Nagoya University Transnational Programs for Leading Professionals in Asian Countries (webinar)	Zoom, 18 January 2021	Speaker on NU-SEARCA Joint PhD Scholarships
	2 <sup>nd</sup> Integrated STEM Leadership Summit in Asia with theme: "Reimagining Integrated STEM Education: Amplifying Agility and Transformational Collaboration for a Post Pandemic Asia"	Floor, 21-22 January 2021	Participant
	KU Online Academic Forum with theme: <i>The Role of Universities in Addressing Critical Global Issues</i>	Zoom, 3 February 2021	Participant
	SEAMEO-BCCIE Partnerships Event	Swoogo, 16-17 March 2021	Participant
	UNFSS Dialogue 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods	Zoom, 16 April 2021	Participant
	Orientation for Convenors of Dialogues for the UN Food Systems Summit	Zoom, 21 April 2021	Participant
	The State of Higher Education in the Region	Zoom, 29 April 2021	Participant
SEAMEO Congress 2021: Transforming Southeast Asian Education, Science, and Culture in the Digital Age	Virtual, 28-29 April 2021	Participant	

<b>Name of Participant</b>	<b>Title of Activity</b>	<b>Venue and Date</b>	<b>Nature of Participation</b>
Darvin, Bernice Anne C.	Multi-Actor Global Exchange Meeting (GEM) - Developing the Modular Training Program on Public Policy Cycles for Family Farming	Zoom, 27-28 July 2020	Participant
	Consultation-Workshop on Milkfish Roadmap Updating	Zoom, 22 February 2021	Participant
	SEAMEO AND BC Partnership Event: B2B Meetings	Virtual, 16 March 2021	Participant
De Chavez, Gaspar L.	New DOLE Department Order DO 224-21: Guidelines on Ventilation on Workplaces and Public Transport to Prevent and Control the Spread of Covid-19	Virtual, 12 March 2021	Participant
Dia, Jaymark Warren T.	The future of work in the new normal	Virtual, 20 August 2020	
	IIBA® Agile Analysis Certification (AAC)	Virtual, 12, 13 November 2020	
	Antifragile: Going beyond resilience in life, work, and investing	Virtual, 27 February 2021	Participant
Domingo, Leah Lyn D.	27th National Public Relations Congress	Virtual, 17-19 February 2021	Participant
Dumaraos, Renante A.	Coping with Business Disruption during a Pandemic: A Business Continuity Online Forum	Virtual, 3 September 2020	Participant
	Basic Portfolio Management	Virtual, 10 November 2020	Participant
Estareja, Zara Mae C.	Stakeholders Forum: A Forward-Looking and Transformative ARD in Southeast Asia SEARCA Headquarters, Los Baños, Laguna, Philippines	Zoom, 28 October 2020	Participant
	Google Digital Garage: The Fundamentals of Digital Marketing	Virtual, completed on 19 March 2021	Student
	Basics of News Writing	Virtual, 11 May 2021	Participant
	Webinar/workshop series: Advanced Editing: Substance & Style (session 1 of 4 parts)	Virtual, 26 June 2021	Participant
	Basics of Media and Information Literacy and Social Media	Virtual, 29-30 June 2021	Participant
Felix, Nathan P.	27th National Public Relations Congress	Virtual, 17-19 February 2021	Participant
Fuentes, Arjay B.	Pandemic Preparedness and OSH Programming	Virtual, 2 and 4 March 2021	Participant
	New DOLE Department Order DO 224-21: Guidelines on Ventilation on Workplaces and Public Transport to Prevent and Control the Spread of Covid-19	Virtual, 12 March 2021	Participant
	Online Training on Construction Cost Estimating & Analysis	Virtual, 3, 5, 10, 12, 17 and 19 November 2020	
Genosa, Eidelmine Elizabeth F.	Policies and Procedures (Manual, Practices and Samples)	Virtual, 8 August 2020	Participant
	Engaging Your Employees While Working from Home	Virtual, 8 August 2020	Participant
	Employees Compensation Program, Employees Compensation Commission	Virtual, 14 August 2020	Participant
	Labor Law Compliance During Quarantine	Virtual, 15 August 2020	Participant
	Emerging from Disruption with Excellence: Execute your Teams Strategy and Goals by Franklin Covey Philippines	Virtual, 25 August 2020	Participant
	Why Quantifying Diversity & Equity Matters, Success Performance Solutions	Virtual, 25 August 2020	Participant
	Recalibrating Pay, Benefits, and Wellbeing in the New Reality, Willis Towers Watson	Virtual, 26 August 2020	Participant
	27 Wise Ways in Leading People and Employees with Problems	Virtual, 27 August 2020	Participant
	Digital Learning Platform of former USEC JBJ	Virtual, 27 August 2020	Participant
	Compensability of COVID19 under the Employees' Compensation Program	Virtual, 28 August 2020	Participant
	The New Normal in Learning and Development, UPRush Social Geekers, Inc	Virtual, 29 August 2020	Participant
Help! I am New to Employment Engagement, UPRush Social Geekers, Inc,	Virtual, 31 August 2020	Participant	

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
	Rapid Culture Change: The Bruce Lee Way by Mike Grogan through Kaizen Leadership.Ph	Virtual, 4 September 2020	Participant
	The New Way of Doing Performance Management, UPRush Social Geekers, Inc,	Virtual, 5 September 2020	Participant
	Total Rewards and Engagement: The Role of HR in Gamification, UPRush Social Geekers, Inc,	Virtual, 8 September 2020	Participant
	Managing and Designing Compensation	Virtual, 11 September 2020	Participant
	How To Give Remote Employees Easy and Secured Access to Documents Using Document Management System, Paperless Trail, Inc.,	Virtual, 22 September 2020	Participant
	Navigating the new normal for pat and work in Asia Pacific, Willis Towers Watson Data Services,	Virtual, 23 September 2020	Participant
	Crafting of Data Privacy Policy in the Workplace by The Advancement of HR in the Philippines (3-5pm)	Virtual, 4 October 2020	Participant
	Introduction to Data Privacy & Protection Made Simple by Nordic Chamber of Commerce in the Philippines	Virtual, 5 October 2020	Participant
	The 8 Steps in Remedial/Legal Administrative Employee Discipline with Atty. Josephus B. Jimenez in coordination with HRBSI	Virtual, 6 October 2020	Participant
	Agile Work and the Future of Work in ASEAN Region by Moveup, ASEAN HR Leaders Circle, UpUp app	Virtual, 6 October 2020	Participant
	Salary Structure under New Normal, HR Management and Business Solutions, Inc.	Virtual, 16 October 2020	Participant
	Design Sprint Innovation Overview Webinar (Design Thinking v2.0 - Wave 11), Six Sigma PH	Virtual, 16-17 October 2020	Participant
	The HEART of HR: Creating RESILIENT Teams, with Coach Chot Reyes, Stylist Pocket	Virtual, 21 October 2020	Participant
	Certified Lean Six Sigma White Belt, Six Sigma Lean Six Sigma PH, Rex Tuozo, MBB	Virtual, 24 November 2020	Participant
	How to Give Remote Employees Easy and Secured Access to Documents Using Document Management System, Paperless Trail Inc	Virtual, 24 November 2020	Participant
	Digital Agriculture Boot Camp by APPGeese for SEARCA (EIG initiated)	Virtual, 10 December 2020	Participant
	Let's Talk Business Online Workshop	Virtual, 16 and 23 Jan 2021	Participant
	Communicating with Influence and Finesse	Virtual, 16 Jan 2021	Participant
	The Art and Science of Mentoring	Virtual, 19 Jan 2021	Participant
	Developing and Implementing a Mentoring Program	Virtual, 21 Jan 2021	Participant
	21 Labor Problems Between Employers and Employees in 2021 and How to solve them	Virtual, 21 Jan 2021	Participant
	19 Laws in Compensation and Benefits	Virtual, 29 Jan 2021	Participant
	Coaching in the New Normal	Virtual, 30 Jan 2021	Participant
	Twin Summit on Organizational Justice and Total Rewards	Virtual, Twin Summit on Organizational Justice and Total Rewards	Participant
	Learn How to Simplify your Employee Onboarding Process	Virtual, 24 Feb 2021	Participant
	HR Cafe on Performance Management System in the New Normal	Virtual, 28 Feb 2021	Participant
	SSS Online In-depth Information Seminar: Guidelines for a Productive Training	Virtual, 10-11 March 2021	Participant
	Philippine Outlook 2021: The Socioeconomic Impacts of Immunization coordinated	Virtual, 16 March 2021	Participant
	The 6 Critical Practices for Leading a Team	Virtual, 18 March 2021	Participant
	Coaching Performance with Virtual Leams	Virtual, 18 March 2021	Participant
	#Futureof Work - Launch Session - What the future of Work Holds for SEA	Virtual, 22 March 2021	Participant

<b>Name of Participant</b>	<b>Title of Activity</b>	<b>Venue and Date</b>	<b>Nature of Participation</b>
	HR and Future of Work APAC	Virtual, 23-25 March 2021	Participant
	Human Capital Trends and Bold Ideas for HR and Talent Leaders in 2021 by AON Solutions	Virtual, Human Capital Trends and Bold Ideas for HR and Talent Leaders in 2021 by AON Solutions	Participant
	Crafting of Data Privacy Policy in the Workplace by The Advancement of HR in the Philippines (3-5pm)	Virtual, 4 October 2020	Participant
	Introduction to Data Privacy & Protection Made Simple by Nordic Chamber of Commerce in the Philippines	Virtual, 5 October 2020	Participant
	The 8 Steps in Remedial/Legal Administrative Employee Discipline with Atty. Josephus B. Jimenez in coordination with HRBSI	Virtual, 6 October 2020	Participant
	Agile Work and the Future of Work in ASEAN Region by Moveup, ASEAN HR Leaders Circle, UpUp app	Virtual, 6 October 2020	Participant
	Salary Structure under New Normal, HRManagement and Business Solutions, Inc.	Virtual, 16 October 2020	Participant
	Design Sprint Innovation Overview Webinar (Design Thinking v2.0 - Wave 11), Six Sigma PH	Virtual, 16-17 October 2020	Participant
	The HEART of HR: Creating RESILIENT Teams, with Coach Chot Reyes, Stylist Pocket	Virtual, 21 October 2020	Participant
	Certified Lean Six Sigma White Belt, Six Sigma Lean Six Sigma PH, Rex Tuozo, MBB	Virtual, 24 November 2020	Participant
	How to Give Remote Employees Easy and Secured Access to Documents Using Document Management System, Paperless Trail Inc	Virtual, 24 November 2020	Participant
	Digital Agriculture Boot Camp by APPGeese for SEARCA (EIG initiated)	Virtual, 10 December 2020	Participant
Gilbuena, Gilbert A.	28th Certified Payroll Professional Program	Virtual, 6, 13, 20 February 2021	Participant
Gonzales, Pauline D.	Seminar on Waste Utilization and Product Development Opportunities in Calamansi	Zoom, 13 October 2020	Participant
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Hedreyda, Joseph Matthew L.	Stakeholders Forum: A Forward-Looking and Transformative ARD in Southeast Asia SEARCA Headquarters, Los Baños, Laguna, Philippines	Zoom, 28 October 2020	Participant
	UNFSS Independent Dialogue: "Breaking Silos: Transforming Agricultural Education and Research toward Sustainable Food Systems in Southeast Asia"	Zoom, 18 May 2021	Participant
Jalotjot, Zacyl R.	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 1: Mobilizing Your Community	Zoom, 12 September 2020	Participant
	Future Agricultural and Food Systems: Ensuring Food Security During Crises (World Food Day Colloquium 2020)	Whova, 16 October 2020	Participant
	Webinar on Certified Impact Analyst training	Zoom, 17 October 2020	Participant
	Webinar on Digital Agriculture Bootcamp	Google Meet, 10 December 2020	Participant
	Virtual Training-Workshop on Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
	UNFSS Dialogue 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods	Zoom, 16 April 2021	Participant
	The State of Higher Education in the Region	Zoom, 29 April 2021	Participant
	SEAMEO Congress 2021: Transforming Southeast Asian Education, Science, and Culture in the Digital Age	Virtual, 28-29 April 2021	Participant

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Juliano, Benedict A.	The Basics of News Writing	Zoom, 11 May 2021	Participant
	University of Lampung Webinar: "Book review and Learning tips for the International Book Author"	Zoom, 24 August 2020	Participant
	Stakeholders Forum: A Forward-Looking and Transformative ARD in Southeast Asia SEARCA Headquarters, Los Baños, Laguna, Philippines	Zoom, 28 October 2020	Participant
	Digital Agriculture Boot Camp by APPGeese	Google Meet, 10 December 2020	Participant
	Webinar: Journal Selection Criteria and Evaluation Process for Web of Science	Webex, 3 March 2021	Participant
	SEAMEO Centres Policy Research Network (CPRN) Virtual Summit and First Chevron-SEAMEO Research Workshop for Strengthening Regional STEM Education in Southeast Asia	Zoom, 10-12 March 2021	Participant
	Basics of News Writing (organized by HRMU)	MS Teams, 11 May 2021	Participant
	Breaking Silos: Transforming Agricultural Education and Research toward Sustainable Food Systems in Southeast Asia (UNFSS Independent Dialogue)	MS Teams, 18 May 2021	Participant
	Webinar: Crossref Update: The Road Ahead	Zoom, 9 June 2021	Participant
	Labios, Jean Rebecca D.	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 1: Mobilizing Your Community	Zoom, 10 September 2020
The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 2: Nurturing Your Staff		Zoom, 17 September 2020	Participant
ITU and ADB webinar titled Advances in closing the ICT connectivity Gap in Asia and the Pacific: Better analysis, understanding, and solutions		Zoom, 23 September 2020	Participant
The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 3: Caring for Your Students		Zoom, 24 September 2020	Participant
CFS High-level Special Event on Strengthening Global Governance of Food Security and Nutrition Partner Event 6: Youth engagement and employment in agri-food systems: What Works? What Does not Work? What Could Work?		Zoom, 14 October 2020	Participant
World Food Day Colloquium 2020 "Future Agricultural and Food Systems: Ensuring Food Security during Crises" on Oct 16, 2020.		Whova, 16 October 2020	Participant
Second University Consortium Faculty Forum: Agriculture and Beyond		Webex, 9-10 November 2020	Participant
Technical Forum on Greener Greens: Environmental Impact of Biotech Crops organized by AFNR-RTLD		Zoom, 23 November 2020	Technical Support
PPSA 1 <sup>st</sup> Quarter Key Partners Session		Virtual, 11 February 2021	Participant
PPSA Working Groups Learning Series: Empowering Farmers and Fisherfolks through Agricultural Finance		Virtual, 9 March 2021	Participant
SEAMEO-BC Virtual B2B meeting with Ms. Ana Vallejos, Director of International Education, Immaculata Catholic High School   Kelowna, BC		Virtual, 17 March 2021	Participant
An Independent Dialogue Initiative for the UN Food Systems Summit 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods (hosted by the Ateneo de Manila University, Xavier University, and the Sustainable Development Solutions Network)		Virtual, 16 April 2021	Participants
SEAMEO Congress (conducted by SEAMEO Secretariat)		Virtual, 28 April 2021	Technical Support
3 <sup>rd</sup> Southeast Asian Conference on Ecnutrition (SEACONE): Ecnutrition in the Disruptive Innovation Era		Virtual, 21 May 2021	Technical Support
RTD on Empowering ASEAN Women in Agriculture	Virtual, 7 April 2021	Participant	

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	FAO elearning Academy pedagogical models and learning solutions: First Anniversary	Virtual, 23 June 2021	Participant
Lapitan, Rochella B.	40th PAASE Anniversary & 2020 APAMS (Annual Scientific Meeting) Philippines: Parallel Session 8.2 "Environment and Atmosphere"	Zoom, 3 August 2020	Participant
	Exchange Session: "Developing National Action Plans of the UNDF 2019-2028: Challenges and Opportunities in the Actual Context"	Zoom, 29 October 2020	Participant
	SEARCA Digital Agriculture Boot Camp	MS Teams, 10 December 2020	Participant
	Cavinti District Evaluation of the School and Home Gardens with the theme School and Home Gardening Amidst Pandemic, A.K.A. Sa Gulayan Orayt, Lago Cavinti!	Schools and Home Gardens in Cavinti District, Laguna, 18-19 March 2021	Judge (Home Gardens)
	In-house virtual learning on "The Basics of Newswriting"	Zoom, 11 May 2021	Participant
	Grow Asia's Agriculture Goes Digital Learning Series (Part 2)	Zoom, 12 May 2021	Participant
	Southeast Asia School Based Nutrition Promotion (SEA-SBNP) Working Group Workshop (SEAMEO RECFON)	Zoom, 9 June 2021	Participant
Malayang, Donna Bae N.	Alliances for the Caribbean Coconut Sector Webinar 6 - Sustainable coconut production: The Way Forward	Zoom, 2 July 2020	Participant
	Multi-Actor Global Exchange Meeting (GEM) - Developing the Modular Training Program on Public Policy Cycles for Family Farming	Zoom, 27 -28 July 2020	Participant
	SIBOL Webinar on "Business Models for Sustainability and Circularity"	Zoom, 11 August 2020	Participant
	The World Bank Report Launch: Transforming Philippine Agriculture during COVID-19 and beyond	Webex, 9 September 2020	Participant
	Exchange Session: "Developing National Action Plans of the UNDF 2019-2028: Challenges and Opportunities in the Actual Context"	Zoom, 29 October 2020	Participant
	The OECD Multi-stakeholder Meeting for the Pilot on Responsible Agricultural Supply Chains in Southeast Asia	Zoom, 16 December 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
	SEAMEO Centres Policy Research Network (CPRN) Virtual Summit and First Chevron-SEAMEO Research Workshop for Strengthening Regional STEM Education in Southeast Asia	Zoom, 10-12 March 2021	Participant
	Cavinti District Evaluation of the School and Home Gardens with the theme School and Home Gardening Amidst Pandemic, A.K.A. Sa Gulayan Orayt, Lago Cavinti!	Cavinti, Laguna, 18-19 March 2021	Judge
Manset, Dexter A.	Effective Management Skills	Virtual, 18-19 August 2020	Participant
	Basic Portfolio Management	Virtual, 10 November 2020	Participant
Martinez, Beatrisa L.	Inquirer Academy's Personal and Organizational Development Program Offering	Virtual, 5-7 October 2020	Participant
Medina, Danellie Joy O.	Training Workshop on Animal Biotechnology for Philippine Regulators	Zoom, 24-26 August 2020	Rapporteur, Facilitator, and Participant
	Policy Formulation in the Philippines: Perspectives from Practitioners in the Senate	Zoom, 24-26 August 2020	Participant
	Symposium on Biotechnological Applications Towards a Resilient and Sustainable Agriculture	Zoom, 25 November 2020	Participant
	Global Status of Commercialized Biotech/GM Crops in 2019	Zoom, 30 November 2020	Participant
	Monitoring and Evaluating Policy Performance	Zoom, 5 December 2020	Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
	SEARCA Digital Agriculture Boot Camp	MS Teams, 10 December 2020	Participant
Miraflores, Charles Van T.	Results-Driven Internal Controls/Audit in the New Business Normal	Virtual, 30 September 2020	Participant
	Data Privacy Certification Course with NADPOP (2020) DPO Certification	Virtual, 4-6 December 2020	Participant
Muyco, Paula Grace M.	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 1: Mobilizing Your Community	Zoom, 11 September 2020	Participant
	Future Agricultural and Food Systems: Ensuring Food Security During Crises (World Food Day Colloquium 2020)	Whoova, 16 October 2020	Participant
	Webinar on Certified Impact Analyst training	Zoom, 17 October 2020	Participant
	SEAMEO-BCCIE Partnerships Event	Swoogo, 16-17 March 2021	Participant
	UNFSS Dialogue 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods	Zoom, 16 April 2021	Participant
	The State of Higher Education in the Region	Zoom, 29 April 2021	Participant
	SEAMEO Congress 2021: Transforming Southeast Asian Education, Science, and Culture in the Digital Age	Virtual, 28-29 April 2021	Participant
	The Basics of News Writing	Zoom, 11 May 2021	Participants
Nadres, Arlene A.	Effective Business Writing	Virtual, 16-17 July 2020	
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Orencio, Pedro M.	Multi-Actor Global Exchange Meeting (GEM) - Developing the Modular Training Program on Public Policy Cycles for Family Farming	Zoom, 27 -28 July 2020	Participant
	14th AWGSF Meeting	Blue Jeans, 7 July 2020	Presenter
	16th AWGSF Meeting	Blue Jeans, 9 September 2020	Presenter
	40th PAASE Anniversary & 2020 APAMS (Annual Scientific Meeting) Philippines: Parallel Session 8.2 "Environment and Atmosphere"	Zoom, 3 August 2020	Participant
	Exchange Session: "Developing National Action Plans of the UNDF 2019-2028: Challenges and Opportunities in the Actual Context"	Zoom, 29 October 2020	Participant
	Resilient Food and Agricultural System for Accelerating Economic Recovery: Strategy and Implementation, UC Graduate Forum	Zoom, 15 November 2020	Presenter
	Agribusiness Investment Opportunities Webinar for OFWs	Zoom, 4 December 2020	Presenter
	National Consultative Meeting and Planning Workshop for the Crafting of the Philippine National Action Plan for UN Decade of Family Farming (UNDF) 2019-2028	Zoom, 19 November 2020	Participant
	Presentation of Consolidated Outputs: National Consultation Meeting on the Crafting of the National Action Plan for Family Farming	Zoom, 3 December 2020	Participant
	Higher Education Institution's Training-Workshop on Research Project Development for Agriculture 4.0	Zoom, 12 October 2020	Presenter
	Exchange Session: "Developing National Action Plans of the UNDF 2019-2028: Challenges and Opportunities in the Actual Context"	Zoom, 29 October 2020	Participant
	Open Session of the Virtual 30th Meeting of AWGNB	Zoom, 21 October 2020	Participant
	ASEAN Climate Leadership Programme Coaching and Change Projects Module 1	MS Teams, 6 October 2020	Coach

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	ASEAN Climate Leadership Programme Coaching and Change Projects Module 2	MS Teams, 9-12 October 2020	Coach
	ASEAN Climate Leadership Programme Coaching and Change Projects Module 3	MS Teams, 12-13 November 2020	Coach
	ASEAN Climate Leadership Programme Coaching and Change Projects Module 4	MS Teams, 24-25 November 2020	Coach
	ASEAN Climate Leadership Programme Coaching and Change Projects Module 5	MS Teams, 7-9 December 2020	Coach
	Agribusiness Investment Webinar of Provincial Government of Laguna	Zoom, 4 December 2020	Presenter
	Agroforestry Webinar Series: Strengthening Agroforestry in Southeast Asia (A Webinar Workshop)	Zoom, 21 January 2021	Participant
	Lecture in Development Communication Class of the Graduate School - Asian Institute of Journalism and Communication	Zoom, 10 February 2021	Lecturer
	1st Knowledge Sharing Workshop on Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilization of Digital Technologies	Zoom, 22 February 2021	Facilitator
	Water Security and Climate Change Conference (WSCC)	Zoom, 4 March 2021	Poster Presenter
	SEAMEO Centres Policy Research Network (CPRN) Virtual Summit and First Chevron-SEAMEO Research Workshop for Strengthening Regional STEM Education in Southeast Asia	Zoom, 10-12 March 2021	Participant
	Interview about DA-BAR Calamansi at "Layag Mimaropa" aired on DWLC 1017 AM Radyo Pilipinas and livestreamed on Facebook.	Zoom, 10 March 2021	Guest
	British Columbia Council for International Education (BCCIE)-SEAMEO Partnership Event	Zoom, 16-17 March 2021	Participant
	1st Session Online Training-Workshop on Modeling for Higher Education Institutions (HEIs): Application of Geographic Information Systems (GIS) and Agent Based Modeling Approach: Agri-Forestry Technology for Ensuring Agricultural Resilience (GAMA-AFTER)	Zoom, 22, 24, 26 March 2021	Facilitator
Quilapio, Kristine E.	The New Normal in Talent Acquisition	Virtual, 1 August 2020	Participant
	Policies and Procedures (Manual, Practices and Samples)	Virtual, 8 August 2020	Participant
	Leading Teams in the New Reality-The Repeat	Virtual, 4 November 2020	Participant
	Digital Agriculture Boot Camp by APPGeese for SEARCA (EIG initiated)	Virtual, 10 December 2020	Participant
	Practical Protocol Guides, Mentoring Workshop, BOSH Proposal	Virtual,	Participant
	Enhancing Emotional Intelligence Quotient (EQ) and Adaptability Quotient (AQ) in the New Normal	Virtual, 17, 19, 24, Nov 2020	Participant
	21 Labor Problems between Employers and Employees in 2021 and How to Solve Them	Virtual, 21 January 2021	Participant
	Leading the self	Virtual, 9 February 2021	Participant
	The 8 most important laws on termination based on authorized (economic) causes	Virtual, 8 February 2021	Participant
Ramos, Nova A.	PPSA Discussion on Grow Asia's Strategy	Zoom, 21 July 2020	Participant
	IFAD-FAO Multi-Actor Global Exchange Meeting (GEM) on the Modular Training Program (MTP) on Public Policy Cycles for Family Farming	Zoom, 27-28 July 2020	
	Global Partnership for Education-Knowledge and Innovation Exchange (KIX) FAQ Webinar	Zoom, 30 July 2020	
	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis	Zoom, 10 September 2020	

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
	CFS High-level Special Event on Strengthening Global Governance of Food Security and Nutrition Partner Event 6: Youth engagement and employment in agri-food systems: What Works? What Doesn't Work? What Could Work?	Zoom, 14 October 2020	Participant
	World Food Day Colloquium 2020 Future Agricultural and Food Systems: Ensuring Food Security during Crises	Whoova, 16 October 2020	Participant
	Second University Consortium Faculty Forum: Agriculture and Beyond	Webex, 9-10 November 2020	Participant
	Technical Forum on Greener Greens: Environmental Impact of Biotech Crops organized by AFNR-RTL	Zoom, 23 November 2020	Technical Support
	PREventing ZOOnotic Diseases Emergence (PREZODE): Initiative for the 4th One Planet Summit on Biodiversity	Zoom, 16 December 2020	Participant
	Transforming Food Systems and Land Use	Zoom, 27 January 2021	Participant
	Kasetsart University Online Academic Forum	Zoom, 3 February 2021	Participant
	16 <sup>th</sup> Education and Development Conference (EDC): Teachers, Professional Development, Support, and Overcoming Challenges	FB Live, 5 March 2021	Participant
	First Chevron-SEAMEO Research Workshop for Strengthening Regional STEM Education in Southeast Asia: Chevron-SEAMEO Policy Advocacy for Strengthening Regional STEM Education Project	Zoom, 12 March 2021	Participant
	SEAMEO-BC Virtual B2B meeting with Ms. Myrissa Krenzler, Supervisor, International Training Center, and Ms. Laurie Robinson, Director, International Partnerships, Thompson Rivers University, Kamloops, BC Canada	Virtual, 16 March 2021	Participant
	SEAMEO-BC Virtual B2B meeting with Ms. Jennifer Zhao, Manager, Global Engagement, Douglas College, Canada; Ms. Sheri Love, Global Engagement and Business Development, Gustavson School of Business, University of Victoria, Canada; and Dr. Zulhamsyah Imran, Director, SEAMEO BIOTROP, Indonesia	Virtual, 17 March 2021	Participant
	Global Agricultural Innovation Forum: Farms and Farmers of the Future	Zoom, 30 March 2021	Participant
	An Independent Dialogue Initiative for the UN Food Systems Summit 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods	Virtual, 16 April 2021	Participants
	SEAMEO Congress	Virtual, 28 April 2021	Technical Support
	3 <sup>rd</sup> Southeast Asian Conference on Ecnutrition (SEACONE): Ecnutrition in the Disruptive Innovation Era	Virtual, 21 May 2021	Technical Support
	2021 United Nations Food Systems Summit (UNFSS) Training for Convenors	2021 Virtual, 21 April	Participant
	State of Higher Education in the Region	Virtual, 29 April 2021	Participant
	FAO eLearning Academy Pedagogical Models and Learning Solutions: 1st Anniversary	Virtual, 23 June 2021	Participant
Rebong, Rheden V.	Minimizing Income Tax for Business Individuals	Virtual, 14 August 2020	Participant
	Basic Portfolio Management	Virtual, 10 November 2020	Participant
Renovilla, Adah Sofia R.	Inquirer Academy's Personal and Organizational Development Program Offering	Virtual, 5-7 October 2020	Participant
Revilla, Alicia D.	Antifragile: Going beyond resilience in life, work, and investing	Virtual, 27 February 2021	Participant
Robles, Adoracion T.	Basic Portfolio Management	Virtual, 10 November 2020	Participant
	Antifragile: Going beyond resilience in life, work, and investing	Virtual, 27 February 2021	Participant
Rodriguez, Eduardo D.	Antifragile: Going beyond resilience in life, work, and investing	Virtual, 27 February 2021	Participant

<b>Name of Participant</b>	<b>Title of Activity</b>	<b>Venue and Date</b>	<b>Nature of Participation</b>
Rogel, Carmen Nyhria G.	SIBOL Webinar on "Business Models for Sustainability and Circularity"	Zoom, 11 August 2020	Participant
	UPLB-CHE Event	Zoom, 9 November 2020	Presenter
	14 <sup>th</sup> AWGSF Meeting	Blue Jeans, 7 July 2020	Participant
	16 <sup>th</sup> AWGSF Meeting	Blue Jeans, 9 September 2020	Participant
	British Columbia Council for International Education (BCCIE)-SEAMEO Partnership Event	Zoom, 16-17 March 2021	Participant
	Gender Matters in Biodiversity Concerns (ACB)	Zoom, 25 March 2021	Participant
Saez, Blessie P.	The HEAD Foundation Webinar Series: Educational Leadership in a Crisis Part 1: Mobilizing Your Community	Zoom, 10 September 2020	Participant
	Future Agricultural and Food Systems: Ensuring Food Security During Crises (World Food Day Colloquium 2020)	Whoova, 16 October 2020	Participant
	Webinar on Certified Impact Analyst training	Zoom, 17 October 2020	Participant
	UNFSS Dialogue 2021: Pathways to Sustainable Food and Nutrition, Consumption and Livelihoods	Zoom, 16 April 2021	Participant
	The State of Higher Education in the Region	Zoom, 29 April 2021	Participant
	SEAMEO Congress 2021: Transforming Southeast Asian Education, Science, and Culture in the Digital Age	Virtual, 28-29 April 2021	Participant
Salas, Michael C.	The Basics of News Writing	Zoom, 11 May 2021	Participant
	Pandemic Preparedness and OSH Programming	Virtual, 2 and 4 March 2021	Participant
Tresballes, Nelson A.	CRAFT a Recovery Marketing Plan in a Disruptive Business Environment	Virtual, 25-26 November 2020	Participant
	Stakeholders Forum: A Forward-Looking and Transformative ARD in Southeast Asia SEARCA Headquarters, Los Baños, Laguna, Philippines	Virtual, 28 October 2020	Participant
Urriza, Lovely Grace R. Urriza	Virtual training workshop on Effective Communications Skills and Business Writing	Virtual, 15-16 February 2021	Participant
	Virtual Training-Workshop on Assertive Communication and Polishing Professional Presence	Virtual, 8-9 March 2021	Participant
	Leading Teams in the New Reality-The Repeat	Virtual, 4 November 2020	Participant
Urriza, Lovely Grace R. Urriza	Digital Agriculture Boot Camp by APPGeese for SEARCA (EIG initiated)	Virtual, 10 December 2020	Participant
	Certification in Training Needs Analysis and Evaluation under Diploma in Workplace Learning and Development	Virtual, 20, 27 Feb, 6, 13 March 2021	Participant
	Pandemic Preparedness and OSH Programming	Virtual, 2 and 4 March 2021	Participant
	Practical Protocol Guides, Mentoring Workshop, BOSH Proposal	Virtual	Participant
	Enhancing Emotional Intelligence Quotient (EQ) and Adaptability Quotient (AQ) in the New Normal	Virtual, 17, 19, 24, Nov 2020	Participant
	21 Labor Problems between Employers and Employees in 2021 and How to Solve Them	Virtual, 21 January 2021	Participant
	Leading the self	Virtual, 9 February 2021	Participant
	The 8 most important laws on termination based on authorized (economic) causes	Virtual, 8 February 2021	Participant
Vallez, Anna Gale C.	SIBOL Webinar on "Business Models for Sustainability and Circularity"	Zoom, 11 August 2020	Participant
	National Forum on One Health Innovations to Mitigate Impacts of COVID-19	Zoom, 26 August 2020	Participant
	Seminar on Waste Utilization and Product Development Opportunities in Calamansi	Zoom, 13 October 2020	Moderator and Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
	Training on Identification of Insect Pests, Beneficial Insects, and Diseases of Calamansi and their Management	Zoom, 04 March 2021	Moderator and Participant
	Cavinti District Evaluation of the School and Home Gardens with the theme School and Home Gardening Amidst Pandemic, A.K.A. Sa Gulayan Orayt, Lago Cavinti!	Cavinti District, Laguna, 18-19 March 2021	Judge
	Effective Communication and Business Writing	Zoom, 15-16 February 2021	Participant
	Assertive Communication and Polishing Professional Presence	Zoom, 8-9 March 2021	Participant
Ventenilla, Julita G.	ISO 31000 Certified Risk Management	Virtual, 4-6 November 2020	Participant
	Pandemic Preparedness and OSH Programming	Virtual, 2 and 4 March 2021	Participant
	Antifragile: Going beyond resilience in life, work, and investing	Virtual, 27 February 2021	Participant

### Annex 21. SEARCA Senior Fellows, FY 2020/2021

Name and Affiliation	Field of Expertise	Duration of Appointment
<b>Senior Fellows (20)</b>		
Dr. Howarth Bouis Founding Director, Harvest Plus, Los Baños, Laguna, Philippines	Biofortification	March 2021 -March 2023
Dr. Doris Capistrano Regional Advisor, ASEAN-Swiss Partnership on Social Forestry and Climate Change (ASFCC), ASEAN Secretariat, Indonesia	Agricultural Economics	March 2021-March 2023
Dr. Ratana Chuenpagdee Memorial University of Newfoundland	Resource Management and Environmental Studies	8 January 2020 - 8 January 2021
Dr. Rex Victor O. Cruz Professor and Director, Environmental Forestry Program, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines	Forestry and Natural Resources	March 2021-March 2023
Dr. Cielito F. Habito Chairman, Brain Trust: Knowledge and Options for Sustainable Development Inc., and Professor, Department of Economics, Ateneo de Manila University, Philippines	Economics	March 2021-March 2023
Dr. Poonpipope Kasemsap Associate Professor, Department of Horticulture, Faculty of Agriculture, Kasetsart University, Thailand	Plant Physiology	March 2021-March 2023
Dr. Ma. Concepcion C. Lizada Professor Emeritus in Food Science, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Philippines	Postharvest Physiology	March 2021-March 2023
Dr. Ben S. Malayang III Professor Emeritus, Silliman University, Dumaguete City, Philippines	Environmental Policy and Governance	March 2021-March 2023
Dr. Eero A.J. Nissila Managing Director and Chair, Newfields Consulting Ltd., Finland	Plant Breeding and Genetics	March 2021-March 2023
Dr. Keiji Otsuka Professor, Kobe University, and Chief Senior Researcher, Institute of Developing Economies, Kobe, Japan	Agricultural and Industrial Development	March 2021-March 2023
Dr. William G. Padolina Academician, National Academy of Science and Technology, Philippines	Research Management and Science Policy	March 2021-March 2023
Dr. Eufemio T. Rasco, Jr. Academician, National Academy of Science and Technology, Philippines	Plant Breeding	March 2021-March 2023
Dr. Emerlinda R. Roman Professor Emeritus, University of the Philippines Diliman	Agricultural Business Management	March 2021-March 2023
Dr. Gil C. Saguiguit, Jr. Former SEARCA Director	Economics, Agricultural and Rural Development	March 2021-March 2023

Name and Affiliation	Field of Expertise	Duration of Appointment
Dr. Segfredo R. Serrano Former Undersecretary for Policy and Planning, Department of Agriculture, Philippines	Agricultural Economics	March 2021-March 2023
Dr. Paul S. Teng Dean and Managing Director, National Institute of Education International (NIE) Nanyang Technological University, Singapore	Agricultural Systems Research	March 2021-March 2023
Dr. Tin Htut Retired Permanent Secretary Ministry of Agriculture, Livestock and Irrigation (MOALI), Nay Pyi Taw, Union of Myanmar	Agronomy	March 2021-March 2023
Dr. V. Bruce J. Tolentino Independent Member, The Monetary Board Bangko Sentral ng Pilipinas, BSP Headquarters, Philippines	Economics	March 2021-March 2023
Dr. Shue-Jen Wang Deputy Vice President for Academic Affairs, National Taiwan University	Plant Physiology	March 2021-March 2023
Dr. Reiner Wassman Former IRRI Senior Scientist and Climate Change Expert/Focal Person	Climate and Environmental Science	March 2021-March 2023

## Annex 22. List of Formal Agreements with Collaborating Institutions, FY2020/2021

Date signed	Institution/ Organization	Purpose of Agreement Partner	Amount Involved		Duration of Agreement
			SEARCA		
<b>International/Regional (27)</b>					
1 July 2020	International Foundation for Science (IFS)	Memorandum of Agreement for the implementation of IFS-SEARCA Mentorship Program for Individual and Collaborative Research	USD108,540	USD105,900	1 July 2020 – 30 June 2023
1 July 2020	Sensient Colors LLC	Promotion of the production of botanical colorants in the Philippines and Southeast Asia (LOA)			1 July 2020 – 30 June 2025
1 July 2020	Universitas Brawijaya	Memorandum of Understanding (MOU) for Institutional Cooperation			1 July 2020 – 31 May 2024
1 July 2020	Young Professionals for Agricultural Development (YPARD)	MOU			1 July 2020 – 30 June 2025
3 September 2020	Royal University of Agriculture, Cambodia	Partnership Agreement for Higher Education Improvement Project	USD 117,795	USD 48,887	2020-2022
7 September 2020	Network of Aquaculture Centres in Asia-Pacific (NACA)	MOU			7 October 2020 – 6 October 2025
7 September 2020	Impact Licensing Initiatives vzw (LI)	MOU			
15 September 2020	Universiti Putra Malaysia	Renewal of MOA on Joint Graduate Scholarships	USD 64,438	USD 287,050	AY2020-2021 to 2024-2025
15 September 2020	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	Letter of Agreement to develop and implement a Regional Leadership Programme that will strengthen key leadership skills for initiating and facilitating policy changes and collective cross-sectoral transformative actions in the field of Climate-Smart Land Use (CSLU).	N/A	In-kind	September 2020 – April 2021
16 October 2020	International Service for the Acquisition of Agri-biotech Applications (ISAAA)	Letter of Agreement: SEARCA Online Learning Virtual Event (SOLVE) Webinar: The Unrealized Potential of Animal Biotechnology	USD 1,150		16 October 2020

Date signed	Institution/ Organization	Purpose of Agreement Partner	Amount Involved		Duration of Agreement
			SEARCA		
16 November 2020	Economic Research Institute for ASEAN and East Asia (ERIA)	Research Cooperation Agreement: Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilization of Digital Technologies (No. ERIA-RD/CV-1-2005/05/FY20)	USD 33,400		16 November 2020 – 31 October 2021
27 November 2020	French Embassy to the Philippines	Convention/Letter of Agreement to organize the roll-out of the Training-Workshop on Modeling for Higher Education Institutions- Application of GIS-based and Agent Modelling Approach: Agri-Forestry Technology for Ensuring Agricultural Resilience (GAMA-AFTER)	EURO3,000 (Equivalent to PHP169,492)		
November 2020	Deutscher Akademischer Austauschdienst (DAAD)  German Academic Exchange Service	Affiliate Agreement for In-Country/ In-Region Scholarship Programme	USD 4,109,529		AY2021/2022 to AY2023/2024
December 2020	Malaysian Agricultural Research and Development Institute (MARDI)	MOA on Joint Graduate Scholarships	USD 77,450	USD 250,600	AY2020/2021 to AY2024/2025
January 2021	Agropolis Fondation	MOA on Promoting scientific co-operation in research, higher education, and capacity building activities	EUR 155,000	EUR 145,000	2021 – 2026
17 February 2021	Institute of Geographic Sciences and Natural Resources Research (IGSNRR) of Chinese Academy of Sciences	Letter of Agreement: 3rd No-cost Extension of the Project titled, "Rural Regional Transformation: Pathways, Policy Sequencing and Development Outcomes in China, the Philippines and Vietnam (RRT)"	USD 140,326		Revised Project Completion Date: 31 March 2021  Project Closure Date: 30 September 2021
March 2021	Nagoya University	Amendment to the MOA on the NU-SEARCA Joint PhD Scholarship in the Fields of Agriculture and International Development for Philippine Nationals (change in duration)	USD 522,000	USD 33,000	Extended until 31 December 2023
6 April 2021	International Institute of Rural Reconstruction (IIRR)	MOU			6 April 2021 – 5 April 2026
7 April 2021	International Center for Biosaline Agriculture (ICBA)	MOU			7 Apr 2021 – 6 Apr 2026
8 April 2021	The HEAD Foundation	Letter of Agreement to develop and implement the Leadership Development Program for Higher Education Institutions in the Philippines (3rd run since it was implemented in 2019)	USD8,000.00	PHP152,700, and USD8,100	10 December 2020 – 11 December 2021
13 April 2021	International Service for the Acquisition of Agri-biotech Applications – SEAsia Center (ISAAA SEAsia Center)	MOU			13 April 2021 – 13 April 2026
15 April 2021	Indonesian Agency for Agricultural Research and Development of The Ministry of Agriculture, Republic of Indonesia (IAARD)	MOU			2021 – 2026
16 April 2021	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	Amendatory Letter of Agreement to collaborate for the conduct of the Second GIZ-SEARCA ACLP under the same terms and conditions as the First GIZ-SEARCA ACLP.		In-kind	September 2020 – December 2021

Date signed	Institution/ Organization	Purpose of Agreement Partner	Amount Involved		Duration of Agreement
			SEARCHA		
18 May 2021	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	Service Contract number: 81269511: Promoting climate-smart land use (CSLU) through ASEAN policy documents and regional events	USD 31,641		10 May – 30 November 2021
24 May 2021	CropLife Asia (CLA)	Letter of Agreement: A United Nations Food Systems Summit (UNFSS) Independent Dialogue: “Transforming Pathways: Working with Farmers in Agri-Food Systems”	USD3,692	PHP100,700	24 May – 30 June 2021
28 May 2021	International Union for Conservation of Nature and Natural Resources (IUCN)	MOU			28 May 2021 – 27 May 2026
June 2021	Universiti Sains Malaysia Center of Excellence on Sustainable Agricultural Intensification and Nutrition, Royal University of Agriculture, Cambodia	MOA on the Development of Innovative and Sustainable Aquafeed using Local Agro-Residual Resources	USD 8,000	USD 14,397	1 June 2021 – 31 May 2023
<b>Local Partners-Philippines (32)</b>					
1 July 2020	Visayas State University (VSU)	MOU			1 July 2020 – 30 June 2025
1 July 2020	Central Mindanao University (CMU)	MOU			1 July 2020 – 30 June 2025
1 July 2020	Central Luzon State University (CLSU)	MOU			1 July 2020 – 30 June 2025
1 July 2020	Pilipinas Shell Foundation, Inc. (PSFI)	MOU			1 July 2020 – 30 June 2025
12 August 2020	Sycip Gorres Velayo & Co. (SGV)	ADB TA-9689 REG: Analysis of Fruit and Vegetable Value Chains in the Philippines (52239-001)	USD 91,780		1 June 2020 – 31 March 2021
7 September 2020	Learning Links Academy of Sta. Rosa, Inc.	MOU			2020 – 2025
7 September 2020	Batangas State University (BatStateU)	MOU			2020 – 2025
22 September 2020	APPGeese, Inc.	Development of Pilot Digital Agriculture Platform in the Philippines Project	PHP 5,000,000	PHP 480,000	1 September 2020 – 31 August 2021
7 October 2020	Resource and Environmental Economics Foundation of the Philippines Incorporated (REAP)	MOU			7 Oct 2020 – 6 Oct 2025
15 October 2020	Provincial Government of Laguna (PGL)	MOU			15 Oct 2020 – 14 Oct 2025
22 October 2020	Laguna State Polytechnic University (LSPU)	MOU			22 Oct 2020 – 21 Oct 2025
16 November 2020	Resource and Environmental Economics Foundation of the Philippines Incorporated	1st Philippine National Conference on Health, Environment, and Resiliency (HEED the 3Rs): The Road to Recovery and Resiliency (ONLINE)	PHP65,000	PHP140,700	19-21 November 2020
20 November 2020	Commission on Higher Education (CHED)	MOA on Leveling Up Philippine Higher Education Institutions on Agriculture Fisheries, and Natural Resources	PHP 100,483,350		November 2020 – October 2022
24 February 2021		Supplementary MOA to change the statement on termination of agreement and effectivity			2 years from release of program funds

Date signed	Institution/ Organization	Purpose of Agreement Partner	Amount Involved		Duration of Agreement
			SEARCA		
3 December 2020	Sycip, Gorres, Velayo, & Co. (SGV)	End-of-Term Review of Philippines Agribusiness Program -Subcontractor Agreement – (Subcontract Agreements)	USD 26,529		September –December 2020
14 Dec 2020	Tarlac Agricultural University (TAU)	MOU			1 Jul 2020 - 30 Jun 2025
1 January 2021	Central Mindanao University (CMU)	MOA on Assessing the efficiency and prospects of the tunnel vent technology for the poultry industries in Mindanao, Philippines - Phase 1		PHP 720,000	1 January – 30 June 2021
2 February 2021	Dr. Emilio B. Espinosa Sr. Memorial State College of Agriculture and Technology (DEBESMSCAT)	MOU			2 Feb 2021 – 31 Jan 2026
23 February 2021	Oscar M. Lopez Center for Climate Change Adaptation and Disaster Risk Management Foundation, Inc. (OML Center)	MOU			23 Feb 2021 – 22 Feb 2024
12 March 2021	Cebu Technological University (CTU)	MOA on Waste to Food: Valorization of Shrimp Head Wastes		PHP 720,000	12 March -30 June 2021
12 March 2021	Laguna State Polytechnic University (LSPU)	MOA on Pilot Incubation Support for Agrifood-based Startups of the Laguna State Polytechnic University (LSPU)		PHP 500,000	12 March -30 June 2021
12 March 2021	Tarlac Agricultural University (TAU)	MOA on Pilot Support for Market Analysis and Competitiveness of TAU Agri-Based Products		PHP 500,000	12 March -30 June 2021
12 March 2021	Batangas State University (BatStateU)	MOA on SICAT: Support for Innovative and Commercially Viable Agricultural Technology		PHP 500,000	12 March -30 June 2021
15 March 2021	Mindoro Biodiversity Conservation Foundation, Inc. (MBCFI)	Co-publication of the MBCFI Sourcebook, “Mindoro Treasures”		PHP 500,000	February 2020-March 2021
27 April 2021	PTC Holdings Corp. (PTCH)	MOU			27 April 2021 – 26 April 2026
29 April 2021	The Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) of the Department of Science and Technology	MOU			2021 – 2026
10 May 2021	AIESEC Philippines Foundation, Inc. (AIESEC Philippines)	LOA to develop Training for Students (DWA SHS)		PHP 13,000	10 May – 30 June 2021
12 May 2021	Jollibee Group Foundation, Inc. (JGF)	Project SAYA: Strengthening Agricultural Yield of Allium cepa L. (Onion) in the Philippines (MOA)	PHP 1,500,000	PHP 665,250	1 April 2021 – 31 December 2021
24 May 2021	Mindoro State University (MinSU)	Letter of Agreement: Establishment of Techno-Demo-Learning Site for Calamansi Research	MinSU: PHP83,000	With funding from DA-BAR (Calamansi Project): PHP236,652	24 May 2021 – 24 January 2022
1 June 2021	Ateneo de Manila University-Ateneo School of Government	MOU			1 June 2021 – 30 May 2026

<b>Date signed</b>	<b>Institution/ Organization</b>	<b>Purpose of Agreement Partner</b>	<b>Amount Involved</b>	
			<b>SEARCA</b>	<b>Duration of Agreement</b>
17 June 2021	University of the Philippines Los Baños (UPLB) - TTBD0	MOA on SEARCA-UPLB Technology Transfer and Business Development Manual Development and Capacity Building Project	PHP 720,000	1 May – 31 August 2021
30 June 2021	University of the Philippines Los Baños (UPLB) - School of Environmental Science and Management (SESAM)	MOA on Conceptualizing Halal Industry and One Health (H2O) Ecosystem as an Emerging Innovation for Growth and Development: Establishment of the Halal Science and Technology (S&T) Knowledge Center for Southeast Asia in the Philippines (Phase 1)	PHP 720,000	12 March - 30 June 2021





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