



SEAMEO SEARCA

ANNUAL REPORT  
FY 2022/2023



Southeast Asian Regional Center for Graduate Study and Research in Agriculture





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, Timor-Leste, and Vietnam. 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 2022/2023

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# **SEAMEO SEARCA ANNUAL REPORT FY 2022/2023**

## **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.





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## MESSAGE FROM THE DIRECTOR

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I am honored to present the SEARCA Annual Report for Fiscal Year 2022/2023. This year marks the third year of our 11th Five-Year Plan, guided by the overarching theme “Accelerating Transformation Through Agricultural Innovation” (ATTAIN) and strategically aligned with the United Nations Sustainable Development Goals (SDGs) so that our efforts contribute to a broader vision of global well-being.

SEARCA’s work this year has been truly remarkable, driven by a dedicated staff and a network of ever-expanding partnerships. This report offers a glimpse into the significant strides we made.

We actively supported development and access to innovative solutions through the SEARCA Grants for Research towards Agricultural Innovative Solutions (GRAINS), which is designed to empower entrepreneurs to develop technologies that enhance productivity and income for farmers. Meanwhile, our Rice Straw Biogas Hub project aims to generate clean energy and provide innovative services to rice farmers. We also completed regional research projects supporting ASEAN in strengthening food security and supply chain resilience. We anticipate seeing these research efforts translate into concrete actions that benefit the region’s agricultural sector.

Food and nutrition security remained a top priority. We supported initiatives like the Food is Life Exemplified for Planetary Health Diet (FLEXPHE) competition, which developed mobile apps that empowered consumers to make informed food choices. Our work on School-plus-Home Gardens also promoted healthy and sustainable food sources. On-the-ground projects like School Edible Landscaping for Entrepreneurship and case studies on food security coping strategies equipped communities with the knowledge and resources needed to navigate challenges and ensure long-term well-being.

We continued to prioritize empowering the next generation by providing scholarships and training programs, often co-funded with partners. We also fostered innovation through institutional development assistance, empowering universities to become drivers of progress. Notably, our support has helped establish a quality assurance system at Cambodia's Royal University of Agriculture.

However, sparking interest in agriculture at a younger age is key to attracting future generations to the field as academics, professionals, practitioners or agripreneurs. To achieve this, this year we have significantly expanded our youth initiatives. These include the SEARCA Hub for Agricultural and Rural Innovation for the Next Generation (SHARING), robotics competitions, and the SEARCA Youth in Agri Talk Show. These programs aim to cultivate a passion for agriculture and equip participants with the skills to become innovative leaders in the sector.

Looking ahead, we are optimistic. SEARCA's strong financial standing, coupled with the exceptional dedication of our staff and partners, fuels our confidence in shaping a BETTER, BIGGER, SMARTER future for Southeast Asian agriculture.

Glenn B. Gregorio  
Center Director, SEARCA



Tuan Ngoc Do

## EXECUTIVE SUMMARY

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SEAMEO SEARCA remained dedicated to promoting agricultural and rural development in Southeast Asia during the third year of our Eleventh Five-Year Plan focused on Accelerating Transformation Through Agricultural Innovation (ATTAIN).

SEAMEO SEARCA's work is organized around three core programs, namely, Education and Collective Learning, Research and Thought Leadership, and Emerging Innovation for Growth, which targeted seven priority areas aligned with the United Nations Sustainable Development Goals (SDGs).

To achieve its mission to elevate the quality of life of agricultural families through sustainable and resilient livelihoods and access to modern networks and markets, SEAMEO SEARCA worked on five key fronts.



## ATTAIN Outcome 1: Stakeholders embodying mindset transitions

SEAMEO SEARCA prioritized providing scholarships and training to cultivate leaders, researchers, educators, change agents, and farmers. These scholarships were funded collaboratively by SEAMEO SEARCA and partner institutions. SEAMEO SEARCA provided support and opportunities for scholars and faculty, assisting them in disseminating research findings and participating in international mobility programs. The Center also established the Graduate-On-Time program offering customized trainings, GSID Conversations, seminars, conferences, testimonials, and social activities to enhance scholars' competence, development, and well-being while recognizing their academic milestones and research contributions.

SEAMEO SEARCA remains committed to empowering institutions and fostering innovation through its institutional development assistance (IDA) program. Notably, we assisted Cambodia's Royal University of Agriculture in establishing an Internal Quality Assurance system and extended IDA benefits to State Universities and Colleges Association of Colleges of Agriculture in the Philippines, Inc. (SUC ACAP) members.

Furthermore, SEAMEO SEARCA sustained its engagement in multicountry higher education networks, foremost of which is the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) and Agrinatura, the European Alliance on Knowledge for Development.

Moreover, SEAMEO SEARCA actively promoted youth engagement in agriculture through activities that fostered sharing, learning, and innovation design. The Center launched the SEARCA Hub for Agricultural and Rural Innovation for the Next Generation (SHARING), supported robot olympiads, and organized a Southeast Asian Youth Fest and agri-robotics learning events for family farm schools. The Center also piloted the SEARCA Youth in Agri Talk Show.

## EXECUTIVE SUMMARY

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### **ATTAIN Outcome 2: Enabling policies and regulatory frameworks supporting ARD at the local, national, regional, and international levels**

SEAMEO SEARCA directs its finite resources towards conducting research that contributes to the establishment of enabling policies and regulatory frameworks that provide the necessary structure, guidance, and support for the agricultural sector to thrive sustainably, contribute to economic growth, ensure food security, build resilience, and promote international cooperation in addressing shared challenges.

SEAMEO SEARCA's Research for Development (R4D) projects evaluated a program on farm school establishment, assessed a technology business incubation program, created information materials on biotech contributions to farmers' success, enhanced biotechnology links through scientific knowledge, and is now benchmarking agricultural research management systems. The Center completed two regional projects that support ASEAN focused on addressing the challenges of ensuring food security and inclusiveness while utilizing digital technologies to improve the efficiency and resilience of the food supply chain. On the other hand, its action researches gained ground in developing value-added calamansi products, creating a coconut industry roadmap in Quezon Province, scaling up/out the School-plus-Home Gardens Project, and investigating households' food security coping strategies during COVID-19 in Indonesia and the Philippines.

The Center's efforts also included refining digital research platforms, foremost of which is the Agriculture, Forestry, and Natural Resources (AFNR) Knowledge Platform, and conducting research activities for farmer-centric policy development and support family farming.

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

SEAMEO SEARCA supported agricultural technology solutions to enhance approaches at different stages of the value chain. The Center also engaged in initiatives that will help



advanced innovation commercialization within academic and research institutions. SEAMEO SEARCA Grants for Research towards Agricultural Innovative Solutions (GRAINS) were awarded to improve supply chain management, enhance animal welfare practices, and support smallholder farmers through innovative agricultural solutions. Moreover, SEAMEO SEARCA embarked on a Rice Straw Biogas Hub project, which aims to generate clean energy from waste rice straw and provide innovative technology services for rice farmers such as efficient milling and straw harvesting as well as biogas-powered drying and storage.

#### **ATTAIN Outcome 4: Increased investment in the agriculture and rural sector**

SEAMEO SEARCA enhanced its financial commitments to agriculture and food systems by allocating resources to capacity building, research, and innovation grants aimed at supporting key contributors to ARD. In FY 2022/2023, SEAMEO SEARCA's support included scholarship grants, Seed Fund for Research and Training grants, professorial chair grants, travel grants for research dissemination, and GRAINS.

#### **ATTAIN Outcome 5: Food and nutrition security from a range of choices ensuring well-being in an evolving lifestyle**

Additionally, SEAMEO SEARCA prioritized initiatives that advance food and nutrition security. The Food is Life Exemplified: Mobile App Development Competition for Planetary Health Diet (FLExPHD) produced apps that guide consumers in making informed food choices based on the PHD model. SEAMEO SEARCA also convened knowledge events on School-plus-Home Gardens with Biodiversity Enhancement Enterprise (SHGBEE) in Palawan, Philippines and SHGBEE in the Establishment of Agricultural Technology Parks (ATPs) and Mini-ATPs in Cambodia. Other activities on the ground are the School Edible Landscaping for Entrepreneurship in the Philippines and a two-country case study on food security coping strategies during the pandemic.

## EXECUTIVE SUMMARY

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### AMPLIFYING PARTNERSHIPS AND KNOWLEDGE SHARING

SEAMEO SEARCA recognizes the significance of collaboration in implementing these development solutions and placed great importance on working in partnerships. In FY 2022/2023, SEAMEO SEARCA signed 38 new formal agreements with 36 partners in the academe (11), industry (6), government (8), civil society (11), and international community (2).

SEAMEO SEARCA's public relations (PR) strategy focused on building relationships to enhance its reputation and facilitate seamless communication. Through media exposure, press releases, and corporate communication, the Center increased its visibility, having featured in 221 news articles and issued 26 press releases in multiple languages. Consistent messaging through SEAMEO SEARCA-owned channels, including social media via Facebook, LinkedIn, and YouTube, were done to increase awareness about the Center's work and relevance to build trust and attract partners for development. Showcasing its contributions and engagements



Dr. Glenn Gregorio, SEARCA Center Director, and Dr. V. Bruce Tolentino, Monetary Board Member of the Bangko Sentral ng Pilipinas (BSP) and SEARCA Senior Fellow, declare their commitment to support the Southeast Asian Carbon Farming Consortium (SEA CAF).



with SEAMEO Member and Associate Member Countries through informative booklets and partnership briefs positioned SEAMEO SEARCA as a reliable partner in development.

To foster knowledge exchange and expertise sharing, SEAMEO SEARCA actively participated in 21 conferences, roundtables, workshops, technical meetings as well as produced 43 new publications to disseminate research findings.

## ORGANIZATIONAL EXCELLENCE

SEAMEO SEARCA implemented strategic initiatives to improve operational effectiveness and cost-efficiency to fulfill its 11th Five-Year Plan (FYP). Through programmatic and operational improvements, information systems enhancement, internal procedure refinement, physical facility upgrades, and improved human and financial resource management, the Center has successfully accomplished its objectives in FY 2022/2023.

The year saw the appointment of a Malaysian and first-ever female deputy director. SEAMEO SEARCA maintained a lean but highly skilled team of 97 staff who joined internal training sessions and external learning events to stay sharp. Their well-being were supported by Center health initiatives and social activities.

Meanwhile, a balanced investment portfolio sustained SEAMEO SEARCA's strong financial position, which was a boon for its programs as well as the upkeep of its facilities. Significant infrastructure improvements included the renovation of its office building and continuing construction of its new Executive House.

Also upgraded were the Center's IT network, integrated cloud computing, increased internet bandwidth, and strengthened cybersecurity measures. In addition, key information systems now automate approval processes and optimize asset management and financial decision-making. The SEARCA Residence Hotel also benefited from IT upgrades that greatly improved network reliability and guest experience.







# SEAMEO SEARCA

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## INTRODUCTION

As climate changes continue to worsen and populations across the region continue to grow, Southeast Asia stands at a critical juncture in its agricultural evolution. Innovation is key along with enabling people to access better and more appropriate technologies and learn sustainable approaches and practices for food security in healthy environments. It is toward these ends that SEAMEO SEARCA continued to execute its 11th Five-Year Plan (FYP) anchored on **Accelerating Transformation Through Agricultural Innovation (ATTAIN)** in FY 2022/2023.

To realize the ATTAIN vision, SEAMEO SEARCA carried out its core programs—**Education and Collective Learning (ECL)**, **Research and Thought Leadership (RTL)**, and **Emerging Innovation for Growth (EIG)**.

SEAMEO SEARCA's ECL program develops agriculture leaders and professionals who embody mindset transitions through Graduate Scholarship and Institutional Development as well as Training for Development. Meanwhile, its RTL program leads initiatives that fall under Research for Development, Policy and Program Advisory; and Agriculture, Forestry, and Natural Resources (AFNR) Knowledge Platform. The ATTAIN flagship program on EIG strives to provide farmers and farming families wider access to innovative products and services as well as business models for increased productivity and income through activities related to Open Innovation and Agri-Incubation; Knowledge and Technology Transfer; and Project Development, Monitoring, and Evaluation.

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These initiatives were pursued within the framework of seven priority areas, each designed to make meaningful contributions to the United Nations Sustainable Development Goals (SDGs), particularly to the following goals: SDG 2: Zero Hunger; SDG 4: Quality Education; SDG 9: Industry, Innovation, and Infrastructure; SDG 13: Climate Action; SDG 17: Partnerships, while touching on SDG 1: No Poverty, SDG 5: Gender Equality, and SDG 12: Responsible Consumption and Production.

The Center's seven priority areas are:

- 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, and
- EcoHealth/One Health Applications to ARD.

At the heart of SEAMEO SEARCA's mission lies the aspiration to **elevate the quality of life of agricultural families by fostering sustainable and resilient livelihoods as well as facilitating access to modern networks and innovative markets**. To translate this mission into action, the Center has been diligently working towards achieving five key outcomes:

### **ATTAIN Outcome 1:**

**Stakeholders Embodying Mindset Transitions:** SEAMEO SEARCA is actively cultivating a shift in mindsets among all stakeholders involved in agricultural development, instilling a culture of innovation and adaptability.

### **ATTAIN Outcome 2:**

**Enabling Policies and Regulatory Frameworks Supporting Agricultural and Rural Development (ARD):** SEAMEO SEARCA is advocating for and contributing to the development of policies and regulatory frameworks that bolster the agricultural and rural development sector.

### **ATTAIN Outcome 3:**

**Wider Access to Innovative Products and Services and Business Models for Increased Productivity and Income:** SEAMEO SEARCA is facilitating access to cutting-edge products, services, and innovative business models that enhance productivity and income for agricultural communities.

### **ATTAIN Outcome 4:**

**Increased Level of Investment in the ARD Sector:** SEAMEO SEARCA is actively engaging with partners and stakeholders to develop strategies to drive increased investment in the agricultural and rural development sector, ensuring sustained growth and progress.

### **ATTAIN Outcome 5:**

**Food and Nutrition Security Ensuring Well-being in an Evolving Lifestyle:** SEAMEO SEARCA is committed to uncovering approaches to safeguard food and nutrition security, which is paramount to the well-being of communities in a rapidly evolving lifestyle landscape.



## INNOVATION STRIDES

### ATTAIN OUTCOME 1

#### STAKEHOLDERS EMBODYING MINDSET TRANSITIONS

##### Nurtured ARD Leaders and Catalysts

SEAMEO SEARCA's education and collective learning initiatives provide aspiring individuals with the education, skills, and knowledge needed to become change-makers in the agricultural sector. By supporting their academic pursuits and offering specialized training, SEAMEO SEARCA equips scholars and training participants with the tools to address pressing challenges and drive innovation in ARD. Since SEAMEO SEARCA initiated its graduate scholarship program in the academic year (AY) 1967/1968, it has supported a total of 1,929 master's and PhD scholarships for

Southeast Asians, including 644 awarded under joint scholarship projects (**Annex 1**).

In FY 2022/2023, SEAMEO SEARCA **conferred two new full PhD scholarships while overseeing 46 ongoing full graduate scholarships** from prior years with 17 of these reaching completion (**Annex 2**). Additionally, SEAMEO SEARCA **awarded 11 new PhD research scholarships** and managed 17 ongoing ones with five successfully concluded within the fiscal year (**Annex 3**). Notably, all these PhD research scholarships were fully funded by the Center.

SEAMEO SEARCA continued to manage 71 project scholarships, 11 of which were completed, and awarded a total of **26 new project scholarships (Annex 4)**. **Four of the new project scholarships were for dual degree programs (Annex 5)**, which brings the total scholarships awarded for dual degree programs to 11.

Only one dual degree scholarship has been completed so far.

During the year, the Center submitted three new proposals for the DAAD In-Country/In-Region Scholarship Programme Southeast Asia for 2024-2026 to broaden the fields covered by the scholarship.

Capacity building in ARD has consistently been at the forefront of SEAMEO SEARCA's strategic agenda, casting a broad net over a diverse array of beneficiaries



SEAMEO SEARCA officials present the Outstanding Master's Scholar to Ms. Ma. Genesis T. Catindig-Reyes (second from left), MS in Rural Sociology, University of the Philippines Los Baños, during the Testimonial Ceremony.

who include educators, researchers, higher education administrators, government officials at the national and local levels, technical experts in ARD, farmers and farmer groups, as well as young individuals. In FY 2022/2023, these endeavors in capacity building have taken the form of **regional and national training programs and other learning and knowledge events (Annex 6)** conducted under different core programs.

Short-term training remained SEAMEO SEARCA's fast lane to nurture agents of change and thought leaders who could reshape the ARD landscape in Southeast Asia. In FY 2022/2023, the Center's training for development (T4D) activities included tailored training for higher education institutions and technical training for specific stakeholders. SEAMEO SEARCA **organized 13 training courses**, four of which were tailored to faculty and staff from public and private higher education institutions (HEIs) offering agriculture programs that are members of the State Universities and Colleges- Agricultural Colleges Association of the Philippines (SUC-ACAP) under Leveling-Up Philippine Higher Education Institutions in Agriculture, Fisheries, and Natural Resources (LevelUPHEI AFAR) project. These specialized SEAMEO SEARCA training courses included a cross-visit to higher education institutions in Thailand, a blended program on leadership development for Philippine HEIs (LDP-HEIs), as well as on-site training sessions focusing on research designs and methods for Philippine HEIs (Research4HEIs) and the development of fundable research project proposals for transformative ARD in HEIs (FundableProp4HEIs). Moreover, for the sixth time, SEAMEO SEARCA and the University of the Philippines Open University (UPOU) and the UPOU Foundation, Inc. (UPOUFI) co-offered the **online course titled "Impact Assessment and Poverty Alleviation: Focus on Technology and Capacity Development (IAPA)"** with 21 enrollees.

In addition, SEAMEO SEARCA initiated two regional training programs in FY 2022/2023. In partnership with International Union for Conservation of Nature

(IUCN), SEAMEO SEARCA launched the **pilot offering of the Training-workshop on Transformational Agricultural Innovation Systems for the New Future (TrAInS)** via online mode. It engaged participants from Lao PDR, Myanmar, the Philippines, and Thailand in the development of collaborative and transformative programs for agricultural development guided by the agricultural innovation systems (AIS) framework. The Center also **introduced the Agri-Innovator Program (AIP)** delivered in an online format to participants from Myanmar, the Philippines, and Vietnam. The AIP promoted a human-centered approach, combining design thinking as a mindset and Lean Startup as a methodology for cultivating agricultural innovations. GIYA (meaning "to guide"), a pest control technology developed to aid Filipino farmers in using pesticides appropriately through mobile phones is one of the group outputs from this training and it is currently being prepared for publication as a SEAMEO SEARCA Agriculture and Development Note (ADN).

SEAMEO SEARCA conducted three online workshops and two on-site seminar- workshops in partnership with the Royal University of Agriculture (RUA) in Cambodia. These sessions **assisted RUA in developing its Internal Quality Assurance (IQA) System** as part of their government's Higher Education Improvement Project. In collaboration with Corporacion Procasur and Food and Agriculture Organization of the United Nations (FAO) Regional Office for Asia and the Pacific (RAP), SEAMEO SEARCA also organized a regional training on inclusive, integrated, and innovative public policy cycles for family farming that drew participants from Cambodia, Indonesia, Lao PDR, the Philippines, Thailand, Timor-Leste, and Vietnam.

SEAMEO SEARCA also **co-hosted the International Ecotourism Travel Mart (IETM)** in collaboration with the International School of Sustainable Tourism (ISST). IETM was the world's first green travel mart, which showcased products and services with a strong ecotourism component and featured a two-day

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Miss Earth 2022 beauties, led by current titleholder Mina Sue Choi (center) of South Korea, visited the Center's exhibit at the IETM, where they engaged in conversations with SEARCA officials and staff about agriculture programs and activities.

ecotourism forum that included presentations on case studies highlighting ecotourism practices, challenges, and future directions.

The event brought together over 200 experts and delegates from 25 countries, including 14 SEAMEO SEARCA scholars from Indonesia, the Philippines, Timor-Leste, and Vietnam. With travel grants supported by the Center, the scholars received the Associate in Ecotourism Management Certification upon completing the Ecotourism Forum. They also gained access to networking opportunities and the AEN seminar, where global network members presented case studies on ecotourism practices, challenges, and future directions.

The seminar featured presentations from Japan, Bhutan, India, Taiwan, and selected Asia-Pacific countries.

**SEARCA Online Learning and Virtual Engagement (SOLVE) webinars and the Agriculture and Development Seminar Series (ADSS) (Annex 7)** were also conducted in FY 2022/2023. The SOLVE webinars addressed pressing concerns related to agrifood tourism, sustainable food systems, and the impact of climate change on agriculture. Collectively, these webinars drew a total of 1,312 attendees, with

1,029 participating via Zoom and 283 via Facebook Live, representing countries across Asia, Africa, North America, South America, and Europe. The Center held the ADSS in hybrid mode, featuring presentations by the Philippines Country Climate and Development Report by the World Bank and, a former Senator of the Republic of the Philippines who explored leveraging the role of family farming for more productive and resilient food systems in the country, and Dr. Peter Warr of the Australian National University who tackled agriculture's role in poverty reduction and economic growth in Asia. Altogether, these seminars brought together 207 onsite and 420 online attendees.





adss

The World Bank presented its Philippine Country Climate and Development Report at the SEAMEO SEARCA ADSS on 16 February 2023, which offered a comprehensive analysis of how climate change affects the country's development goals and identifying priority challenges and opportunities for climate action by both public and private sectors.

## Sustained Joint Scholarships with Partners

SEAMEO SEARCA's unwavering commitment to partnerships, a cornerstone of its 11th FYP, is exemplified by the structure of its recent graduate scholarships, primarily established through collaborative ventures with funding agencies and partner universities. In FY 2022/2023, SEAMEO SEARCA successfully **administered 14 joint scholarship programs** in addition to overseeing two scholarships fully funded by SEAMEO SEARCA. These 14 joint graduate scholarship programs engaged a diverse range of esteemed partners, including Agropolis Fondation of France, Bulacan State University (BuLSU), Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN) in Cambodia, DAAD, Malaysian Agricultural Research and Development Institute (MARDI), Nagoya University, PCC, National Taiwan University (NTU), Sejong University, Tokyo University of Agriculture (NODAI), Universiti Putra Malaysia (UPM), and Universiti Sains Malaysia (USM). Some of these

partnerships extended to a tripartite arrangement for joint scholarships, such as Agropolis-UPM- SEAMEO SEARCA and USM-CE SAIN-SEAMEO SEARCA.

In total, these **14 cost-effective joint scholarship programs granted 35 new scholarships, securing external funding amounting to USD 614,166 and PHP 13,493,955** for FY 2022/2023.

These joint scholarships are among SEAMEO SEARCA's **17 capacity building projects benefitting higher education institutions (HEIs) (Annex 8)**. In FY 2022/2023, The Center also had two Institutional Development Assistance (IDA) projects in addition to the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC), for which it serves as secretariat.

## Empowered SEAMEO SEARCA Scholars

As the Center adapted to the new normal, it **transitioned scholarship applications to a more user-friendly online platform**, streamlining the process for

## INNOVATION STRIDES

prospective candidates and adapting hybrid scholarship interviews to assess applicants for AY 2023-2024.

SEAMEO SEARCA also initiated a **Graduate on Time (GOT) Program**, comprising a blend of academic and extracurricular learning activities designed to assist SEAMEO SEARCA scholars in meeting their academic obligations promptly while supporting their overall well-being. The GOT program encompassed a comprehensive array of training courses, including modules on basic English, scientific writing and presentation, quantitative and qualitative research methodologies, data analysis, and thesis manuscript composition. Additionally, the program featured the **GSID Conversations**, providing scholars with a platform to engage with experts from diverse fields within ARD, enabling the sharing of experiences and insights on translating knowledge and skills into

meaningful societal contributions. Topics explored during the GSID Conversations in the past year ranged from understanding mental health issues and their prevention to an alumnus' perspective on their journey as SEAMEO SEARCA scholar.

The Center continued its commitment to support scholars by **facilitating their participation as paper presenters at international conferences and enabling their attendance at pertinent learning and knowledge-sharing events (Annex 9)** aligned with SEAMEO SEARCA's priority areas and using technology and information in agriculture as well as **publishing their articles in scientific journals**. The dissemination of information to scholars was further enhanced through the **GSID newsletter for scholars and alumni rebranded as "What's Up SEARCAns?"**.

Upon completing their studies, SEAMEO SEARCA scholars joined the esteemed ranks of SEAMEO SEARCA alumni, becoming valuable contributors to the network of ARD leaders and professionals in Southeast Asia. These emerging leaders go on to play pivotal roles in advancing sustainable agriculture, influencing policies, and fostering regional development. The SEAMEO SEARCA alumni network has been a steadfast partner to the Center, collaborating on agricultural innovation and sustainable development through conferences, seminars, and joint research projects that brought together regional experts. In collaboration with the **Regional SEARCA Alumni Association (RSAA)**, SEAMEO SEARCA organized a virtual conference with the theme **"Advancing Agricultural Research for Improved Food Security."** This event featured the



Former SEARCA scholar Dr. Divo Dharma Silalahi shared insights on navigating grad school and transitioning to a career with ongoing SEARCA scholars enrolled at study posts across Southeast Asia at SEARCA's 5th GSID Conversations held online on 28 April 2023.

presentations of research findings by 28 scholars, divided into six parallel sessions. Alumni members played pivotal roles as moderators and resource persons, offering expert guidance to the scholars. The event received an inspirational message from Prof. Dr. Ir. Musliar Kasim, Rector of Baiturrahman University, Indonesia, and an Outstanding SEARCA Scholarship Alumni Awardee.

## Capacitated Higher Education Institutions

In FY 2022/2023, SEAMEO SEARCA continued its efforts to bolster the capacities of HEIs, recognized as pivotal drivers of innovation in the fields of agriculture and related disciplines. Through its **Institutional Development Assistance (IDA) initiatives**, SEAMEO SEARCA played a significant role in empowering strategically selected HEIs with core competencies in agriculture-related domains to become agents of development in their respective countries.

SEAMEO SEARCA's assistance to RUA in developing its IQA System is strategic as the new system is primed to ensure the university's educational quality and serve as an invaluable tool for the efficient management of the university's assets and talents. During the year, SEAMEO SEARCA conducted three online workshops and two onsite seminar-workshops for RUA under this initiative. The **outcomes of these learning events included the creation of self-assessment reports (SARs) at the program level**, based on nine standards and 24 key indicators across the university's faculties. Additionally, a **draft IQA manual of operations and a draft IQA roadmap for RUA's 10 faculties were generated**, encompassing a range of disciplines that include which include veterinary medicine, agro-industry, forestry science, agricultural economics and rural development, agricultural engineering, agronomy, animal science, fisheries, rubber science, and land management and land administration. Participants also underwent a needs assessment related to IQA mentoring.



Royal University of Agriculture leaders and staff engage in lectures and workshops on quality assurance with the SEARCA training management group during the Training-Workshop on Internal Quality Assurance (IQA) held on 22-25 May 2023 in Kampot, Cambodia.

The **QA intervention program implemented at RUA yielded several positive outcomes**. First, it fostered a deeper understanding and appreciation of



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QA through a cyclic process of input, workshops, and feedback sessions. Consequently, participants no longer regarded QA as an extra burden but rather as a vital perspective to be integrated into program and service delivery. Second, the program led to the revision of curricula to align with industry demands, thus enhancing the employability of graduates. Third, it fortified institutional governance by crafting RUA's QA policy, delineating a more transparent QA organizational structure, and allocating resources to bolster program development and stakeholder engagement. Finally, the program promoted knowledge-sharing endeavors among RUA's diverse faculties, fostering a culture of learning, collaboration, innovation, and the adoption of best practices.

Also counted as a major initiative to capacitate HEIs is the Commission on Higher Education (CHED), Philippines-funded **LevelUPHEI AFAR project, which**

**provided a gateway for 75 SUC-ACAP members to forge connections with global higher education networks**, particularly the university consortium established by SEAMEO SEARCA. This collaboration was facilitated through a variety of activities that included **training programs, summer schools, forums, cross-visits, and opportunities for faculty and student exchanges**. In FY 2022/2023, 154 faculty members and staff from 49 SUC-ACAP members actively participated in mobility activities with 41 attending short courses, training programs or benchmarking activities; 46 participating in summer schools; and 67 presenting papers at forums and conferences. Furthermore, 89 faculty members and staff from 29 SUC-ACAP members embarked on cross-visits to HEIs in Thailand, took part in blended training on leadership development, engaged in onsite training on research designs and methods, and participated in an onsite training- workshop focused on developing fundable research project proposals.

### Promoted Internationalization of Higher Education

To enhance the quality of teaching and learning while promoting internationalization in higher education, SEAMEO SEARCA actively participated in multi-country higher education networks. The **Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC)**, an initiative launched by SEAMEO SEARCA in 1989, emerged as one of the Center's most extensive regional networks. In 2022, Central Mindanao University (CMU) in the Philippines became the newest member to join the



The Training-Workshop on Developing Fundable Research Project Proposals for Transformational Agricultural and Rural Development for Higher Education Institutions (FundableProp4HEIs) held at SEARCA in February 2023 equipped participants with crucial skills in proposal writing to help secure grants and funding for impactful projects.



Maejo University President Dr. Weerapon Thongma welcomes participants to the 8th UC Graduate Forum jointly convened by the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) and SEARCA on 18–19 May 2023 in Chiang Mai, Thailand.

UC. SEAMEO SEARCA, acting as the **UC Secretariat**, facilitated **36 new UC grants (Annex 10)** for **thesis support, student and faculty travel, and seed fund for collaborative research**.

Moreover, SEAMEO SEARCA took the lead in organizing various regional-focused events and projects aligned with the ATTAIn thrust. After two years of virtual gatherings, the UC resumed conducting its annual face-to-face activities. These included the **4th UC Faculty Forum centered on the theme “Future Proofing Agriculture,”** held in December 2022 at Central Luzon State University in the Philippines. The 35th UC Executive Board Meeting took place in November 2022 at Universitas Brawijaya in Malang, Indonesia, in conjunction with the **6th UC Summer School focused on Crop Diversification, Mixed Cropping, and Risk Management in Smallholders’ Agriculture in the Context of Climate Change**. Furthermore, the **8th UC Graduate Forum (UCGF) on “Future of Agriculture Sustainability: Organic Intelligent Agriculture”** was hosted by Maejo University in Chiang Mai, Thailand, in May 2023.

SEAMEO SEARCA, in its role as the UC Secretariat, coordinated the submission of a proposal under the ERASMUS+ Capacity Building in the Field of Higher Education Strand 2. This **proposal pertained to**

**Postgraduate Micro-Credentials for Food Security and Climate Change (PMC FSCC)**, which are learner-centered short-term courses designed to empower individuals, including those outside the formal education system, to address the intertwined challenges of food security and climate change. SEAMEO SEARCA remained committed to advocating for educational innovation and promoting flexibility in the delivery of instruction.

## Engaged the Youth in Agriculture

In FY 2022/2023, several projects were conducted under the **Young Forces for Agriculture Innovation (#Y4AGRI)**, **SEAMEO SEARCA’s banner youth program**, to empower SEARCA’s youth ambassadors,



Ms. Jean Rebecca Labios, SEAMEO SEARCA Program Specialist, hosts the Center’s virtual Regional Youth Forum open to the public to initiate dialogues between the “youth” and with the “once youth.”

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promote agriculture among young people, and involve youths from various Southeast Asian nations in sustainable initiatives. Two **internal youth engagement and development events were held under the SEARCA Youth Ambassadors Platform (SAYAP)**. One is the SEARCA-RUN-ungan, gamified promotion of SEARCA's 11th FYP that fostered camaraderie among SEARCA's youths and senior staff. The other is a professional development talk on youth organizational leadership with a lady lawyer as speaker. On the other hand, the SAYAP-organized **Southeast Asian Youth Fest** brought together young people from across the region to **raise awareness about critical food security issues** and highlight the vital role young people can play in addressing them. It included a **virtual Regional Youth Forum** attended by 1,103 participants and **centered on discussions between food and agriculture experts and Southeast Asian youths**. It also featured a Southeast Asian food exhibition showcasing dishes prepared by SEAMEO SEARCA scholars and selected Philippine universities.

SEAMEO SEARCA's agri-robotics initiative during the fiscal year focused on empowering the youth through **support for participation in robotics competitions** such as the Philippine Robotics Olympiad in Laguna, Philippines and the World Robot Olympiad in Germany. SEAMEO SEARCA partnered with FELTA Multi-Media Inc. to provide support to selected students. Through these opportunities, young beneficiaries gained hands-on experience and exposure to innovative agricultural practices.

In addition, **agri-robotics and agri-innovation training sessions conducted** in collaboration with Dagatan Family Farm School (DFFS) and Balete Family Farm School (BFFS) were designed to empower and educate the youth about the transformative potential of agricultural innovation. These sessions encouraged young individuals to actively participate, interact, and acquire knowledge about innovative approaches that could make a significant impact in ARD. The **sessions focused on Computer Integrated Manufacturing**, providing students with an opportunity to enhance their design engineering skills. They tackled complex, real-world challenges involving computer-controlled machines and worked on developing solutions that met precise design specifications. Additionally, students engaged in practical exercises using a series of test cases to ensure that their solutions performed as intended. This hands-on experience equipped them with valuable skills and knowledge that benefited them as they embarked on their ARD journeys.

To mark the International Youth Day in August 2022, the Center **officially launched the SEARCA Hub for Agriculture and Rural Innovation for the Next Generation (SHARING)**, which features Southeast Asian agricultural imagery, art installations, educational videos, digital agriculture resources, makerspace tools, agripreneurship exhibits, and an engaging gamified digital tour. SHARING is intended to be an accessible facility designed to inspire and engage individuals from various backgrounds to explore, collaborate, and acquire knowledge about impactful innovations in the fields of agricultural and rural development. A stream



of guests from various international organizations, universities and research institutions, government agencies, civil society, and private industry have visited the **SHARING AgriMuseum** during the year. Several groups of young students also took part in innovation and agri-robotics training- workshops held at the **SHARING Café**.

FY 2022/2023 saw SEAMEO SEARCA launch its **Youth in Agri Talk Show**, a virtual platform aimed at reshaping the youth's perception of agriculture as an integral part of basic education curricula, especially in science subjects. The first-ever SEAMEO SEARCA talk show also aims to cultivate an appealing image of

agriculture for elementary and high school students, nurturing their passion, interest, and enthusiasm for the field. The inaugural episode featured the SEAMEO SEARCA Director, a scientist, who discussed crop production, food security, and climate change. The **premiere episode streamed on SEAMEO SEARCA's social media channels** on 26 May 2023 with Colegio de San Juan de Letran Calamba and DFFS as partners. The **show garnered over 45,000 views—the largest number of online views charted by a long-form video in the history of SEARCA's social media**. It succeeded in enhancing awareness by dispelling agriculture-related misconceptions, highlighting its dynamic role in food security and economic development. Furthermore,

it served as an educational platform on various agricultural topics, enlightening young viewers about farming practices and stimulating their interest in potential careers. As it gains traction, the SEAMEO SEARCA Youth in Agri Talk Show will further connect young viewers with expert role models, providing knowledge and inspiration, and continue to inspire their engagement in agriculture by showcasing avenues for them to initiate ventures or participate in research.

Also worth noting is that **105 of the 118 SEAMEO SEARCA new and ongoing scholars** in FY 2022/2023 **belonged to the youth sector**.



The pilot episode of the Youth in Agri Talk Show broadcast on 26 May 2023 focused on “Agri 101 for the Youth,” which discusses farming practices on crop planting and crop rotation, planting methods such as hydroponic farming, and the difference between tissue-cultured seedlings and genetically modified plants.

## INNOVATION STRIDES

### ATTAIN OUTCOME 2

## ENABLING POLICIES AND REGULATORY FRAMEWORKS SUPPORTING ARD

### Conducted Research for Development

R4D integrates research with development goals to tackle real-world challenges, foster sustainability, and benefit society, the environment, and the economy. It involves collaboration among researchers, policymakers, communities, and stakeholders to create innovative solutions for pressing issues like poverty, food security, the environment, and social well-being. R4D closes the research-to-development gap, directly benefiting communities and fostering long-term societal progress. In FY 2022/2023, SEAMEO SEARCA assessed the status of existing agricultural programs and provided actionable recommendations to enhance their effectiveness. The **Evaluation of the Program on Accelerating Farm School Establishment**

(PAFSE) offered valuable insights and comprehensive recommendations across the program's lifecycle. It enhanced the planning office staff's capacity for similar research, leading to improved program management and implementation. On the other hand, SEAMEO SEARCA also **assessed the Technology Business Incubation Program of the Philippine Department of Agriculture-Bureau of Agricultural Research (DA-BAR)** and provided recommendations to improve its marketing, linkages, and overall effectiveness. These recommendations included expanding program management, enhancing the monitoring and evaluation system, and integrating TBI with other DA-BAR projects and programs.

SEAMEO SEARCA began two new R4D projects during the year. One is **Benchmarking the Agricultural Research for Development (R4D) Management System** with agricultural organizations in Malaysia, Thailand, Japan, and South Korea to identify experiences, challenges, best practices, and



Participants of the inception meeting for the Benchmarking of the Agricultural Research for Development Management System with Selected Asian Countries funded by DA-BAR and implemented by SEARCA.



Mr. Craig Jaimeson (center in yellow), founder and CEO of Straw Innovation, with his staff and a SEARCA delegation in front of the Rice Straw Biogas Hub machinery.

opportunities. Funded by DA- BAR. the project includes key informant interviews, site visits, meetings, and consultations. The other is a three-year project called **Rice Straw Biogas Hub** funded by Innovate UK and implemented by SEAMEO SEARCA in collaboration with Straw Innovations Ltd, KoolMill, and Aston University. The project is establishing a Greenhouse Gas Analysis site in Laguna, Philippines. A stakeholder roundtable was conducted to collect input and recommendations regarding the enabling environment and policies.

Moreover, SEAMEO SEARCA has been at the forefront of promoting the responsible adoption of biotechnology in Southeast Asia through a series of strategic initiatives that contribute to ensuring a more secure and sustainable food supply in the region, benefiting both farmers and consumers. The following efforts aim to communicate the positive impacts of biotech crops, engage policymakers, media, and youth in understanding biotech, and create pathways for adopting biotechnology innovations:

SEAMEO SEARCA collaborated with CropLife Asia on the “**Farmer Talk**” initiative, which **communicated the positive impacts of biotech crops in the Philippines, Indonesia, and Vietnam** through flyers and videos featuring real-life success stories of farmers who had experienced the benefits of using biotech crops.

The “**Know the Science: Strengthening Biotech Links Project**” aimed to engage key stakeholders like policymakers, the media, and youth in understanding biotech crops. Building on past successes, SEAMEO SEARCA collaborated with the DA-Biotechnology Program Office, International Service for the Acquisition of Agri-biotech Applications (ISAAA), and UPLB College of Development Communication for this initiative.

The “**Bridging and Upgrading the Mechanisms and Pathways for the Uptake of Biotech (BUMP UP Biotech) Project**” aimed to create pathways for adopting biotech innovations to enhance food security. It also improved local government and media capabilities for biotech promotion and fostered collaboration among academia, industry, and government to support biotech innovation adoption.

## Refined Digital Platforms for Research

SEAMEO SEARCA has developed two distinct digital platforms aimed at enhancing research and knowledge-sharing in **Agriculture, Forestry, and Natural Resources (AFNR)**. Digital platforms have the potential to accelerate and enhance development efforts by improving access to information, fostering collaboration, promoting economic growth, and addressing various societal challenges. Their versatility



## INNOVATION STRIDES

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and scalability make them powerful tools for advancing development goals in various sectors and regions.

The **AFNR Knowledge Platform (KP)** is dedicated to fostering and sustaining an ecosystem for knowledge exchange that plays a pivotal role in the advancement of ARD in Southeast Asia. Within this platform, a specialized knowledge exchange component has been meticulously crafted to categorize its vast repository of content into thematic areas. The AFNR KP will also be complemented by a suite of tools and resources generated by SEAMEO SEARCA and its extensive network of partners. Notably, SEAMEO SEARCA has initiated collaborative efforts with the Philippines Partnership for Sustainable Agriculture (PPSA) to spearhead activities fostering a vibrant community of practice closely aligned with the utilization aspect of the AFNR KP.

The second digital platform is the **Southeast Asian Platform to Attain Agri 4.0 Collaboration and Engagement (SPACE)**, a web-based collaborative technology platform **designed to managing SEAMEO SEARCA's extensive network of partners**. The innovative platform was designed to facilitate the formation of collaborations among closely interconnected institutions, with SEAMEO SEARCA positioned as the central hub within the open innovation ecosystem.

### Expanded Action Researches

In FY 2022/2023, SEAMEO SEARCA was at the forefront of several initiatives aimed at promoting sustainable

agriculture and fostering economic development across various areas in the Philippines and Cambodia. For one, the Center led the creation of a **technoguide that offers insights into off-season calamansi production and essential agricultural practices**, providing a crucial reference for farmers. At the same time, the Provincial Government of Oriental Mindoro, in collaboration with the Office of the Provincial Agriculturist, began a **calamansi roadmapping exercise to formulate a comprehensive plan for the sustainable growth of the calamansi industry** within the province.



Dr. Pedcris Orencio (left), SEARCA Program Head for Research and Thought Leadership, with key partners in Oriental Mindoro, Philippines on 13 -14 July 2022 hold SEARCA publications that document insights from their long-standing collaboration in the province, which is the country's largest producer of calamansi.

SEAMEO SEARCA also collaborated with the Provincial Government of Quezon and the Office of the Provincial Agriculturist to drive the growth of Quezon Province's coconut industry. Together, they **began crafting a comprehensive provincial roadmap that prioritizes the sustainable development of key commodities** like virgin coconut oil, copra, lambanog, and coco sugar. The next step is to capacitate the stakeholders to

enhance agricultural practices, boost farmer incomes, and ensure long-term sustainability.

Furthermore, SEAMEO SEARCA is **scaling up its School-Plus-Home Gardens Project (S+HGP) with capacity-building programs for school heads and coordinators** in the provinces of Rizal and Palawan, Philippines as well as in Phnom Penh and Siem Reap, Cambodia. The Center has been preparing for participatory action research in these areas, with focus on improving education, nutrition, and the economic well-being of schoolchildren and their families.

## Implemented Regional Projects to Support ASEAN

The recently completed International Fund for Agricultural Development (IFAD)- funded Agricultural Transformation and Market Integration in ASEAN Countries: Responding to Food Security and Inclusiveness Concerns (ATMI-ASEAN) project co- implemented with International Food Policy Research Institute (IFPRI), **developed the ATMI-ASEAN Roadmapping Guidebook: Developing National Strategies for Agricultural Value Chains** to document the process by which the target countries were engaged to develop their national commodity roadmaps. Moreover, five policy briefs and a synthesis of three national roadmaps were also developed under the project. The **National Roadmap for Myanmar's Pulses Industry was launched in Nay Pyi Taw** on March 2023.

## Formulated and Pushed Enabling Policies Through Research

The **ASEAN Guidelines for Promoting Climate Smart Agriculture (CSA) Practices Volume 3** crafted by SEAMEO SEARCA under the project "Promoting Climate-smart Land Use through ASEAN Policy

Documents and Regional Events" were **adopted by the ASEAN Ministers of Agriculture and Forestry** in October 2022.

In addition, SEAMEO SEARCA successfully **completed three commissioned research projects funded by FAO**. One study **documented the linkages between farmers and the tourism/hospitality industry in Asia and the Pacific**.

SEAMEO SEARCA also led the **conduct of six country case studies in Fiji, India, Lao PDR, the Philippines, Sri Lanka, and Thailand** under a project called "A Series of Activities in the Framework of the UN Decade of Family Farming." The case studies **documented and analyzed policies, strategies, initiatives, and programs that have successfully supported family farming**. They covered contract farming in Cambodia, agrotourism and village in Indonesia, the Agriculture for Nutrition Programme (AFN) in Lao PDR, the Partnership Against Hunger and Poverty (PAHP) and Enhanced PAHP in the Philippines, and the Young Smart Farmer (YSF) Program in Thailand.

Under the project on **"Identifying Opportunities and Developing a Guiding Framework to Address the Humanitarian-Development-Peace (HDP) Nexus in Hand-in-Hand Initiative (HiHi) in Asia and the Pacific,"** three case studies were conducted in Bangladesh, Lao PDR, and the Philippines to identify challenges and opportunities in relation to the implementation of the HiHi. A Guiding Framework was developed to provide strategies on addressing the Humanitarian-Development-Peace nexus through the HiHi in the Asia-Pacific region.

These research initiatives constitute a segment of SEAMEO SEARCA's **portfolio of research and innovation projects for the fiscal year (Annex 11)** currently under review.

## INNOVATION STRIDES

### ATTAIN OUTCOME 3

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

##### Funded Innovations for Holistic Approaches

In the FY 2022/2023, the **Grants for Research towards Agricultural Innovative Solutions (GRAINS)** funded **three new initiatives and eight ongoing projects**. Among the initial eight projects, five have successfully concluded, contributing to the promotion of various innovations. These included the **use of insects to convert waste into valuable feed and fertilizer** by Insiklo, the **digital transformation of agricultural supply stores** by GoEden, the **trial production of**

**agriwaste-based coatings for fruit preservation** by HS Innotech, the **pilot production of bacteria-based growth regulators for high-value crops** by MakilingTek, and the **development of bioplastics from shrimp waste** by the University of San Carlos. The three projects that are still in progress consist of the **commercial seed production of elite traditional rice varieties** by the Malvar Organic Farmers Agricultural Cooperative (MOFAC), the implementation of precision agriculture through an **automated irrigation and nutrient management system (AIRIN)**, and the **development of an agricultural robot** designed to monitor crop health and manage insect control (ARCHIE).

Meanwhile, **three new GRAINS-funded projects in Indonesia, Malaysia, the Philippines** have started. With GRAINS backing equivalent to USD14,999, Penabulu Foundation is using the tested **DAKOTA digital**



SEARCA GRAINS recipient Insiklo operates a bioconversion facility that rears black soldier fly larvae that convert organic waste into animal feed and compost for crop production.



**platform** to enhance Indonesian okra growers' product quality, secure better prices through buyer partnerships, and promote sustainable farming practices in the country. Also with support from GRAINS equivalent to USD15,000, a project led by Universiti Putra Malaysia promotes the **use of electroencephalography (EEG) advancements in Halal humane slaughtering, meat safety, animal welfare, and health assessment**. The project focuses on developing a Halal-EEG knowledge portal, establishing a community enterprise model, and disseminating information on Halal science, policy, and best practices. Meanwhile, in the Philippines, the social enterprise Farm Box has upscaled its operations with GRAINS support equivalent to PHP750,000 to hundreds of boxes, benefiting small-scale farmers and backyard hog raisers. Each box comprises an **intervention package that includes farming supplies, training, and insurance to ensure a successful season**. Farm Box provides the startup funds through the boxes and receives a share of the net profit.

**Impact stories from GRAINS-supported projects have been crafted** during the year to spotlight the successes, challenges, and invaluable lessons gained from implementing innovation projects. The narratives also highlight the benefits reaped by startups and the farming communities targeted by SEAMEO SEARCA.

## Fostered Innovation Commercialization and Technology Transfer

During the year, SEAMEO SEARCA engaged in initiatives that promoted innovation and served as a catalyst for technology commercialization. The Center **supported the crafting of the UPLB Technology Transfer and Business Development Manual**, developed through a series of workshops. As an educational resource, the manual aimed to increase awareness and understanding of technology transfer and business development among UPLB constituents, SEAMEO SEARCA staff, and a diverse range of innovation and technology stakeholders. The manual is intended

as a guide, offering stakeholders a clear roadmap to navigate the intricate processes involved in intellectual property management, technology transfer, and business development within an academic context.

Moreover, the Center **designed a policy framework called SEARCA Intellectual Property and Knowledge and Technology Transfer (SIPAKTT)** to cover the management, protection, and commercialization of SEARCA's intellectual property. This framework also outlines the process for transferring knowledge and technology from SEAMEO SEARCA and its partners to society through various commercialization avenues, aligning with SEARCA's mission and vision for economic and social impact. The policy establishes structures and procedures for managing relationships among SEARCA, its members, scholars, and third parties, ensuring the protection of their respective interests. Additionally, it provides guidance on handling potential risks and conflicts of interest or commitment.

SEAMEO SEARCA also continued to collaborate with Kansas State University, particularly with the experts from the Sustainable Intensification Innovation Lab (SIIL), and the UPLB Center for Agri-Fisheries and Biosystems Mechanization to jointly **develop an open-source, sustainable tractor for enhanced agricultural**



RU Foundry based in Bacolod City, Philippines has explored working with SEARCA to fabricate the "UR Tractor," which will be patterned after the design of this red Ronnie Baugh tractor purchased by SEAMEO SEARCA to serve as a model.

## INNOVATION STRIDES

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**mechanization** in the Southeast Asian region. This initiative has been enabling machine manufacturers and fabricators to access the open system design, facilitating customization and localization of these tractors for local farming needs.

### Extended Technical Assistance and Services

SEAMEO SEARCA has **established a solid track record in provision of exemplary professional technical assistance and services** to a multitude of national and international agencies. The Center was involved in project development and management within the region, addressing a broad spectrum of emerging and ongoing issues and challenges in agriculture, rural development, and the welfare of farmers and farming families. In FY 2022/2023, SEAMEO SEARCA **successfully secured contracts totaling USD 778,450 for externally funded projects**, all of which are aligned with the Center's seven priority areas:

The **Process Documentation and Assessment of DA-BAR's Technology Business Incubation (TBI) Program** documented and evaluated the implementation of 13 TBI sites across the Philippines to derive lessons and provide technical and policy recommendations for enhancing existing and future TBI programs within DA. (Total Project Cost: USD 71,590.40)

**Benchmarking of Agricultural Research for Development (R4D) Management Systems with Selected Asian Countries** is centered on comparing the experiences, challenges, best practices, and strategic directions of agricultural organizations in Asia

that provide R4D grants and offer recommendations for improving the effectiveness and efficiency of DA-BAR's R4D grants program. (Total Project Cost: USD 181,806.53)

The three-year **Rice Straw Biogas Hub** funded by Innovate UK is showcasing the efficient removal of waste rice straw from farmers' fields and its conversion into eco-friendly, commercially viable products. (Total Project cost: USD 503,235.00)

A joint undertaking of SEAMEO SEARCA; National Academy of Science and Technology, Philippines; and the Department of Science and Technology - Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD), the **Food is Life Exemplified: Mobile App Development Competition for Planetary Health Diet (FLEXPHE)** aimed to develop a guide for consumers to make data- and values-driven food choices based on the planetary health diet model. The competition involved hackathons and mentoring, with grant funding provided to selected teams for the development, enhancement, and testing of their applications. (Total Project Cost: USD 21,818.18)



The University of the Philippines Los Baños-developed HEAL-PH mobile application to help students gain healthy eating habits bags the top prize at the FlexPHD app development competition.

## ATTAIN OUTCOME 4

### INCREASED LEVEL OF INVESTMENT IN THE ARD SECTOR

#### Invested in Drivers of ARD

In FY 2022/2023, SEAMEO SEARCA demonstrated its commitment to the ARD sector with investments in **capacity building, research, and innovation grants (Annex 12)** disbursed to individuals and organizations identified as key catalysts for development. This financial support for enhancing agricultural innovation included regional professorial chair grants, seed fund for research and training, travel grants, and mentorship grants as well as scholars training, academic enrichment programs, both new and ongoing scholarships, and engagement initiatives targeting youth.

The Center **awarded the SEAMEO SEARCA Regional Professorial Chair to five accomplished academics** from Malaysia, the Philippines, Singapore, Thailand, and Vietnam. Four distinguished Filipino, Malaysian, and Thai academics who are professorial chair grantees delivered public lectures on topics related to One Health, agricultural technology, and innovation.



Among the new SEARCA Regional Professorial Chair awardees is Assoc. Prof. He Jie who built a distinguished academic career in academe in plant physiology and sustainable agriculture, which contributed to advancements in food security and urban farming.

Moreover, there are two upcoming monographs in the SEARCA Professorial Chair Lecture Series authored by previous grant recipients. The monograph titles are “Innovative Nutrient Formulation for Improved Yield and Chemical Characteristics of Horticultural Crops in Aggregate Hydroponics” and “Mechanization of Tillage and Harvesting Operations for Paddy Production in Malaysia: Challenges and Potentials.”

During the year, the Center also extended support to promising researchers and scientists in Southeast Asia through the **SEARCA Seed Fund for Research and Training (SFRT)**. Start-up funds were provided to improve the grantees’ prospects for securing long-term support from donor agencies. Five new SFRT grants were awarded in FY 2022/2023.

SEAMEO SEARCA also awarded travel grants to eight Southeast Asian professionals, social scientists, and graduate students in the field of agriculture and related disciplines. The **travel grants enabled eligible Southeast Asians to present their research at scientific conferences and forums**. The grantees’ participation also fosters networking with experts as well as opens doors for partnerships between SEAMEO SEARCA, the applicants’ institutions, and development organizations.

In FY 2022/2023, SEAMEO SEARCA continued to implement the **Mentorship Program for Advanced Grants**, which is a follow-on collaboration between the International Foundation of Science (IFS) and SEAMEO SEARCA. Its primary objective is **to nurture professional relationships between seasoned scientists and early career researchers** who received the IFS-SEARCA grants. The overarching aim is to empower the 10 IFS-SEARCA grantees by enhancing their research methodologies, ensuring the excellence of their projects, and facilitating the generation of valuable outcomes within one to three years.



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### ATTAIN OUTCOME 5

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

##### Focused on Food Consumption and Impact of Changing Food Preferences

In FY 2022/2023, SEAMEO SEARCA **championed data- and values-driven food choices based on the Planetary Health Diet (PHD)** through its all-out support to the FLExPHD competition. The mobile app development competition involved hackathons, mentoring, and grants for select teams to develop, improve, and test their regional applications.



SEAMEO SEARCA **kicked off the implementation of the School Edible Landscaping for Entrepreneurship (SEL4E) project** in Rizal Province, Philippines with scoping activities for schools and communities and selection of 11 pilot schools across seven municipalities. Jointly conducted with the Synergy Group Operations, Inc. (SGOI), the project aims to enhance the nutrition and health of children and their families in Rizal.

Also in line with its goal to promote human well-being in an evolving lifestyle, SEAMEO SEARCA **conducted two capacity-building initiatives** in Busuanga and Coron, Palawan, Philippines focusing **on school-plus-home gardens with biodiversity enhancement enterprises (SHGBEE)**. The training activities on vegetable production and sustainable food production for schools and communities in Busuanga Island, Palawan enhanced the capabilities of school heads and school garden coordinators in local crop production and raised awareness of their roles in achieving food and nutrition security. They also learned about national policies supporting the Department of Education (DepEd) Gulayan sa Paaralan program and developed their respective nutrition action plans.

Additionally, SEARCA collaborated with the Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN) of RUA to **organize technical**

SEARCA's Research and Thought Leadership Department staff conduct a scoping activity for the School Edible Landscaping for Entrepreneurship (SEL4E) Project at six of the 11 participating schools in the Province of Rizal, Philippines.

**training workshops** to develop and enhance the skills of school heads, school garden coordinators, and school-based feeding and nutrition coordinators in Cambodia. Participants gained expertise **in integrating organic vegetables, fruits, herbs, and medicinal plants into ornamental landscapes and learned techniques for designing, implementing, and maintaining edible landscape gardens**, particularly applicable to Agricultural Technology Parks (ATPs) and Mini-ATPs in CE SAIN's partner schools.

SEAMEO Regional Centre for Food and Nutrition (RECFON) collaborated with SEAMEO SEARCA for the Philippine component of the case study titled "Coping Strategies of Urban Households to Ensure Food Security during the Covid Pandemic" in Indonesia and the Philippines. The Philippine paper, titled "**Attaining Community Food Security through School-plus-Home Gardening in the Philippines**," was presented **at the SEAMEO Centres Policy Research Network (CPRN) Summit 2023** held in Penang, Malaysia on 7-9 March 2023.

## AMPLIFIED PARTNERSHIPS AND KNOWLEDGE SHARING

Partnerships across diverse sectors are recognized as a pivotal component in achieving sustainable development. SEAMEO SEARCA's partnerships framework, crafted to serve as a fundamental catalyst for agricultural innovation and transformation, has flourished over the past four years since its inception. During this period, SEAMEO SEARCA fostered a rich tapestry of partnerships aimed at advancing ARD. These **collaborations extended to local communities, bilateral arrangements, and global-level initiatives**. In FY 2022/2023, SEAMEO SEARCA **signed 38 new**

**formal agreements (Annex 13)**, comprising both national (27) and regional (11) partnerships, with a spectrum of institutional partners (25 national, 11 regional) from academia (11), industry (6), government (8), civil society (11), and international community (2).

These **partnerships supported a wide array of initiatives across the Center's three core programs**. Notable among these newly forged institutional cooperations are those with the Thailand-based Asian Institute of Technology (AIT) and Winrock International-Bangkok, Thailand. Initial discussions with these entities opened avenues for collaboration, including AIT's application for membership in the UC and opportunities for grantees to participate in mobility programs. Meanwhile, the partnership with Winrock International enabled SEAMEO SEARCA to connect with Thailand's Digital Economy Promotion Agency (DEPA), which is in-charge of promoting digital technology adoption. Ongoing talks with DEPA include potential joint funding for the Center's GRAINS program. A joint scholarship is also being explored after the visit of the Director of the Taiwan-based World Vegetable Center. Furthermore, a memorandum of understanding with the UK-based Nisai Group slated for signing in July 2023 will strengthen SEAMEO SEARCA's collaborative



The SEARCA Director with officials of Winrock International Institute for Agricultural Development (Winrock) and other partners officially launch the United States Department of Agriculture Regional Agriculture Innovation Network (RAIN) in Bangkok, Thailand.

## INNOVATION STRIDES

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efforts. During the visit of the Nisai Group Founder and CEO to SEARCA, discussions revolved around the conceptualization of the SEARCA Academy.

In its host country, the Philippines, SEAMEO SEARCA **collaborated with big players in the private sector and government** for various activities. Together with Chemrez Technologies, Inc., a powder coatings manufacturer and a member of the D&L Group of Companies, SEARCA developed a project proposal for a feasibility study on white copra technology. SEARCA also partnered with the Bangko Sentral ng Pilipinas (BSP) for the Roundtable Discussion (RTD) Series on Sustainable Food and Agriculture Systems in Southeast Asia held on 18-19 April 2023 at the Philippine International Convention Center (PICC). SEAMEO SEARCA also connected with ACEN Corporation, the biggest renewable energy company in the Philippines, and the Center for Agriculture and Rural Development Mutually Reinforcing Institutions Mutually Reinforcing Institutions (CARD MRI) to tap resource speakers and subject matter experts for the RTD Series. SEAMEO SEARCA also linked with the National Electronics and Computer Technology Center (NECTEC) of the National Science and Technology Development Agency (NSTDA), Thailand to add to its illustrious roster of expert speakers at the RTD Series.

In FY 2022/2023, SEAMEO SEARCA also **stepped up its engagement with the diplomatic community in the Philippines**. After their successful collaboration on the RTD Series in May 2023, SEAMEO SEARCA and the Embassy of the State of Israel in the Philippines continued exploring opportunities for cooperation. They

initiated discussions with MASHAV, Israel's international development program, focusing on training and capacity development for Southeast Asian nationals. SEAMEO SEARCA also engaged with the Embassy of Spain, where discussions during a visit by a Spanish representative to SEAMEO SEARCA's headquarters led to the Center connecting with Asociación de Centros de Formación Profesional (FPEmpresa), a non-profit association uniting vocational education and training centers from Spain. This **dialogue with the Embassy of Spain and FPEmpresa marks a significant milestone as it represents the first active engagement between SEAMEO SEARCA and Spain**, a SEAMEO associate member. Anticipated outcomes include multiple collaborative initiatives in fiscal year 2023/2024. The Center **also engaged with the embassies in the Philippines of Canada, France, Israel, Sweden, United Kingdom, and the United States** to explore avenues for cooperation.

Through various **networking events, Center visits, and community relations activities**, SEAMEO SEARCA actively **pursued linkages with numerous organizations, aligning with the academe-industry-government interconnectivity model**. These engagements included embassies in the Philippines, Israel and Nordic chambers of commerce of the Philippines, Thai research institutions, international bodies including the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), educational institutions like ISARA-Lyon, and regional agencies like the Southeast Asia One Health University (SEAOHUN) and SEAMEO Regional Centre for STEM Education (STEM-ED).





Dagatan Family Farm School (DFFS) students participate in learning activities hosted by SEARCA to enhance their knowledge on modern farm technologies and practices and spark their interest and awareness of emerging business opportunities in agriculture.

SEAMEO SEARCA's partnerships framework also ensures responsiveness to local needs of farming communities and its immediate vicinity. In FY 2022/2023, the Center **partnered with family farm schools in promoting agri-innovation among youths and conducted several community relations activities that supported the achievement of SDGs**, particularly Zero Hunger (SDG #2), Quality Education (SDG #4), and Gender Equality (SDG #5). These partnerships with farming communities aimed to promote agri-innovation among family farm school students and educators, particularly in the field of agri-robotics. A total of 46 students from DFFS received hands-on agri-robotics training in February 2023, while students from BFFS, the only all-female family farm school in Asia, were given lectures on agripreneurship and tissue culture during Women's Month 2023.

The Center also **prioritized collaboration within the local community**, as evident in its partnership with Eyelectric, Inc., Dalcielo's Restaurant, and the local government of Los Baños to provide food packs to 254 families affected by Typhoon Paeng. SEARCA also **provided health kits and tissue-cultured banana seedlings to senior citizens and frontliners**, benefiting 107 senior citizens in Los Baños, Laguna, and 80 frontliners from the UPLB Security and Safety Office. Another local partnership involved working with

Lactation, Attachment, Training, Counseling, Help Los Baños (LATCH LB) to oversee the implementation of the Human Milk Donation Drive. This initiative was strategically designed to **raise awareness about breastfeeding and provide crucial support to mothers and infants**. The Human Milk Donation Drive reached a total of 358 lactating mothers, benefiting 82 in Los Baños, 148 in Cabuyao, and 128 in Bay. Other outreach efforts outside Los Baños involved distributing tissue-cultured banana seedlings to DepEd schools in Cavinti, Laguna during the Gulayan sa Paaralan contests.

Meanwhile, **public relations (PR) played an important role** in the Center, serving **as a bridge for relationship-building by enhancing SEAMEO SEARCA's reputation**, enabling seamless communication, and nurturing collaborative endeavors. It helps the Center attract like-minded partners, build trust, and work together. Extensive media exposure boosted the Center's visibility in the public sphere with **221 articles about SEAMEO SEARCA and its work published in newspapers and online news platforms (Annex 14)**. As an intentional step taken to increase the coverage of the Center's programs and activities within the SEAMEO region, **26 press releases were translated into Bahasa Indonesia, Burmese, Khmer, Lao, Malay, Thai, and Vietnamese**, then shared with media contacts and news outlets using said languages.

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In tandem with media relations, corporate communication rounds out SEAMEO SEARCA's PR strategy to ensure coherent messaging, reputation protection, and effective communication to build a positive public image. In FY 2022/2023, the Center's corporate publications included the **quarterly SEARCA Diary, an annual report, the SEARCA Weekly Calendar, monthly e-news bulletins, audiovisual presentations**, and a variety of speeches, talking points, and presentations. Additionally, SEAMEO SEARCA produced **informative booklets that detailed its contributions and engagements in each of the 11 SEAMEO Member Countries, as well as its active involvement with the SEAMEO Associate Member Countries**. Furthermore, **partnership briefs were crafted to showcase SEARCA's collaborative endeavors with specific institutions**. SEAMEO SEARCA had a consistent flow of fresh content across its proprietary media platforms, which consist of the SEAMEO SEARCA website and various social media channels, owing to the synergy between its PR and online media teams. These PR initiatives were aimed at increasing awareness of SEAMEO SEARCA's work and importance among stakeholders and bolster its reputation as a trusted source of the media and a dependable partner in development.

The fiscal year also saw SEAMEO SEARCA **produce 43 scholarly and technical publications (Annex 15)**, including **Asian Journal of Agriculture and Development (AJAD) full issues, individual journal articles, books, guidebooks, monographs, discussion papers, proceedings, policy papers, policy briefs, and discussion notes**. These publications were made



Dr. Arsenio Balisacan (second from left) with SEARCA Director Dr. Glenn Gregorio (left) and book editors (from right) Dr. Hal Hill of the Australian National University who joined the book launch via Zoom, Dr. James Roumasset of the University of Hawaii, and Dr. Majah-Leah V. Ravago of Ateneo de Manila University.

widely accessible through online distribution on the websites of SEAMEO SEARCA, AJAD, and Society for the Advancement of Breeding Researches in Asia and Oceania (SABRAO) in addition to external indexing partners. Notably, AJAD consistently engaged renowned experts to contribute to its issues. Meanwhile, the **SABRAO journal** expanded its frequency from quarterly to bimonthly releases. The Center's **online publications attracted 8,746 downloads by individuals from 111 countries**. The publications' popularity varied, with journal articles, books, and monographs garnering the highest downloads, followed by policy briefs and notes. Notably, **select publications were indexed by external bibliographic partners such as the Web of Science, EBSCO, and ASEAN Citation Index**.

SEAMEO SEARCA achieved significant milestones in expanding its online presence and knowledge sharing efforts. The Center's **website remained a crucial**

online platform, receiving **242,818 visits**, marking a significant increase compared to the previous year. The Center's official **Facebook page** garnered substantial engagement from 655 posts, **reaching an impressive 1,802,659 people, with 162,891 interactions** including likes, comments, and shares, averaging 13,574 per month. Additionally, SEAMEO SEARCA's **YouTube channel had remarkable growth, having accumulated over 110,000 views and expanded its subscriber base by 8.8% to 1,400**. Meanwhile, the Center's **LinkedIn page logged the highest growth, having increased its followers by 74% during the year**. These accomplishments underscore SEARCA's dedication to efficient knowledge sharing and outreach across diverse digital platforms, nurturing increased engagement and influence.

SEAMEO SEARCA's **library continued to serve scholars, students, and researchers, adding 357 new publications**, theses/dissertations, weblinks, and abstracts to its knowledge resource collection. The Center's archives actively supported various units and departments, fulfilling 177 requests. Moreover,

the Center **completed its digitization of vital records**, enhancing information processing, storage, access, and dissemination. As a way for SEARCA to beef up its visual assets, it conducted the **16th edition of its annual photo contest, this time themed "Emerging Agricultural Innovations for the Next Generation."** It introduced new categories alongside its traditional awards and received 763 entries from 10 SEAMEO member countries.

Knowledge sharing efforts of the Center extended to the **conduct of conferences, roundtables, workshops, and technical meetings (Annex 16)**. These events addressed pressing issues such as sustainable food and agriculture systems, digital economies, Web-based Integrated and Spatial Engine and Smart Ecosystem (WISE) carbon farming, school-based food and nutrition programs, and the role of family farmers in enhancing biodiversity through school and home gardens. SEAMEO SEARCA **staff and scholars also contributed to the body of knowledge through their publications and paper presentations** in various knowledge events **(Annex 17)**.

## ORGANIZATIONAL EXCELLENCE

SEAMEO SEARCA's resource units and support services have been instrumental in bolstering the technical programs and initiatives of the Center, aligning with the objectives outlined in its 11th FYP. To enhance operational efficiency and cost-effectiveness, the Center has **renovated its physical facilities, enhanced its information systems**, reviewed and refined its internal administrative processes and procedures, and **improved its fiscal and human resources management**. These concerted efforts have been effective in facilitating the achievement of the Center's programmatic and operational goals.

### Fostered Staff Excellence in a United, Nurturing Environment

In FY 2022/2023, SEAMEO SEARCA **maintained a lean but skilled and effective team of 97 staff and 179 consultants**. Nine new appointments were made, including the **historic appointment of the first female and first Malaysian Deputy Director**.

The Center was committed to fostering a learning and development environment for individuals and the organization. It conducted **five in-house training sessions (Annex 18a)** and had **staff participate in various seminars, workshops, conferences,**



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**staff exchange programs, exposure trips, training courses, and workshops both in- person and in a hybrid format (Annex 18b).**

To ensure a safe and healthy work environment for its staff, the Center developed and executed programs to enhance health, well-being, and workforce engagement. It organized an annual physical examination, **vaccination program**, and conducted **three virtual health and wellness seminars** with the Center's health insurance provider. Ad hoc staff members responsible for year-round event planning **coordinated various social and wellness activities (Annex 18a)**, including a mini- sports fest that saw staff members, scholars, and agency personnel participating, fostering camaraderie while promoting well-being and engagement.

The Center's core programs **benefitted from the expertise of Senior Fellows (Annex 19)** who served as advisors and facilitated connections with potential donors and strategic partners. SEAMEO SEARCA's Governing Board provided valuable insights and guidance on operational and core program areas, strengthening the impact and effectiveness of the Center's core initiatives in the region.

### Secured Financial Sustainability Through Resourceful Management

In FY 2022/2023, SEAMEO SEARCA **maintained a strong financial position using a balanced mix of investment instruments**. The Center's operational

funds continuously receive financial contribution from its host country, the Philippines, and are supplemented by income from investments, facilities, services, administrative fees, and other sources to support its budgetary needs for its personnel, programs and activities. **Matured investments were reinvested in secure and diverse placements** in accordance with the Center's investment policy without putting the safety of the corpus at risk and yielding the highest interest rates. At the end of the year, the Center still had a robust and **diversified investment and cash portfolio valued at USD 34M**.

In addition, the Center underwent a **comprehensive review of inactive accounts and concluded projects**, intending to **streamline its financial portfolio and prepare for a new financial system** to enhance resource allocation and operational efficiency.

SRH **laid the ground work for a point-of-sale (POS) system** to accept more payment methods, expanding customer convenience and increasing sales opportunities. This system allows for cashless payments through credit cards, mobile wallets, and contactless options, accommodating the preferences of its customers. The Center **availed of Landbank's weAccess, an Internet banking service** that allows it to make selected banking transactions online, anytime and anywhere, thus streamlining financial operations and enhancing convenience. In addition, the Center initiated the opening of local bank accounts for the convenience and security of the foreign scholars in receiving their scholarship benefits.

Ultimately, the **independent auditor of the Center has issued an unqualified opinion** that the Center's financial statements present fairly, in all material respects, the assets, liabilities, and fund balances as of 30 June 2023, and the results of its operations and changes in fund balances for the year then ended in accordance with the SEAMEO Financial Operations Manual (FOM), instilling confidence in the financial transparency and integrity of the organization's operations.

## Optimized Physical Facilities and IT Infrastructure

In a bold and forward-looking move, SEAMEO SEARCA has undertaken a massive investment in its facilities, demonstrating its commitment to the comfort and satisfaction of residents as well as the seamless execution of SEAMEO SEARCA's mission. Investing in structural upgrades, aesthetics, modern technology, and versatile spaces is a strategic endeavor to provide an environment that fosters excellence, promotes innovation, and accommodates the diverse needs of its stakeholders.

## Renovated Physical Facilities

SEAMEO SEARCA has substantially revitalized its physical infrastructure, resulting in remarkable enhancements. Notably, **seven housing units** have undergone comprehensive renovations, with an additional **four apartment units** rejuvenated with **exterior and roof repainting**, greatly enhancing the overall ambiance of the complex, bolstering structural integrity and improving living conditions. The main and pocket gardens have also undergone meticulous landscape enhancements, creating serene relaxing spaces.

A thorough upgrade of the Center's conference facilities has recently been completed. This upgrade encompasses installing **state-of-the-art audio-**

**visual equipment and appliances**, ensuring the **adaptability of the facilities to various training and workshop formats**. The Center's conference facilities now provide a flexible environment to meet diverse event requirements, whether for on-site, fully virtual, or hybrid events, seamlessly blending in-person and online participation. In addition, **digital LED billboards and projectors have been procured** to elevate the overall quality of hosted events.

SEAMEO SEARCA has **continued constructing its new Executive House**, which resumed in February 2023 and is scheduled for completion by December 2023. As of 30 June 2023, the structural work on the Executive House is 20% complete.

The SEAMEO SEARCA headquarters, with a gross floor area of 2,909 square meters, has been a prominent landmark on the University of the Philippines Los Baños campus, hosting local, regional, and international events and welcoming visitors from around the world for decades. Over time, the interior of the building has undergone changes due to physical movements and facility upgrades. In line with the Center's commitment to preserving the building's original character while accommodating the needs of post-pandemic work arrangements, the **SEARCA Headquarters Office and Conference Facilities Interior Design Project** was initiated.

Drawing inspiration from the picturesque landscapes of Los Baños, characterized by mountains and nature, the main color palette of the interior design features earth tones and forest greens, seamlessly integrating SEAMEO SEARCA's brand colors. This design approach combines the warmth of wood, polished concrete, and Asian rattan weaving, resulting in a minimalist, timeless, and invigorating atmosphere. The interiors draw on the rich cultural tapestry of Southeast Asian countries, incorporating accents, pop colors, decors, patterns, and textures from these diverse nations. The

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design also prioritizes flexibility in workspaces and layouts, striking a balance between collaborative and focused workstyles, all while ensuring a productive and holistic environment that respects distancing and space requirements. Modern, tropical, straightforward graphics have been integrated to facilitate easy navigation within the offices, while additional surfaces and storage have been thoughtfully included to optimize space utilization.

In FY 2023/2024, **the Center will start implementing interior design improvements in priority areas within the SEAMEO SEARCA headquarters.** This includes the installation of new carpet tiles and an indoor LED screen at the Dioscoro L. Umali Auditorium, along with the upholstery of conference chairs and the procurement of accent furniture. Additionally, the Center will prioritize improvements to its canteen to provide a vibrant and functional dining space for guests and staff.

### Strengthened Information Systems and Infrastructure

In response to the dynamic business landscape, SEAMEO SEARCA acknowledges the pivotal role of modern, secure network infrastructure in ensuring robust connectivity. This upgrade will facilitate seamless communication, collaboration, data sharing, and workflow automation.

Recently, the Center significantly **improved its network infrastructure by upgrading its structured cabling, and around 24 wired and wireless nodes** were installed to enhance wireless access coverage at the

SEAMEO SEARCA headquarters. Additionally, the Center **adopted virtualization and cloud computing integration**, which allowed it to optimize its IT resources, reduce downtime, and improve disaster recovery capabilities.

To future-proof against escalating digital demands and ensure a competitive edge in the digital landscape, the Center increased its internet bandwidth from **300 to 700 megabits per second** at no additional cost, facilitating rapid and efficient internet access and data transfers. Recognizing the growing importance of cybersecurity, the Center fortified its defenses by **replacing and upgrading its network firewall**. This enhancement introduced **advanced security measures** such as intrusion detection systems and encryption protocols, bolstering protection against cyber threats. **Regular security audits**, coupled with the implementation of **advanced endpoint security** and secure remote access solutions through virtual private networks, further solidified the Center's cybersecurity.

Various **upgrades to information systems** have led to streamlined processes, reduced downtime, and improved data security. **Five information systems** were reviewed and updated to automate the systems' approval processes. This has ultimately enhanced the Center's operational efficiency and increased staff productivity. Building assets were included in the **SEARCA Fixed Assets Monitoring System (SFAMS)**, facilitating better asset management and informed decision-making. Moreover, the **Investment Monitoring System (IMS)** has significantly enhanced the organization's financial oversight and decision-making capabilities. **Through**



**real-time data aggregation and performance tracking**, IMS has provided invaluable insights into the Center's investment portfolio. Additionally, SEAMEO SEARCA prioritized equipping its staff with cutting-edge IT-based resources, systems, infrastructure, resources, and devices. The Center provided **32 new mobile workstations, other IT devices, and peripherals** to support the staff members' evolving and increasing IT support and digital requirements.

For the SEARCA Residence Hotel (SRH), the upgrade included high-quality structured cabling system, including **mounting 140 data and voice nodes**; advanced network switches; and organized cable management. These resulted in improved network reliability, faster internet speeds, and seamless connectivity throughout the hotel premises that provide guests and residents with an improved hotel experience, including uninterrupted network connectivity of scholars and staff residing in the SRH. Additionally, **102 advanced PABX telephony phone units were acquired**, improving communication capabilities within the hotel.



Photo by Aditya Pradana Putra

## FUTURE OUTLOOK

Looking ahead, SEAMEO SEARCA finds itself in a region profoundly altered by the pandemic and other global crises, such as conflicts and the worsening effects of climate change, intertwined with dwindling resources. Nevertheless, SEARCA remains **resolutely committed to education and capacity-building**. The Center firmly believes that **investing in human capital stands as a cornerstone for the region's progress**. Consequently, SEAMEO SEARCA will continue to offer **scholarships, training programs, and mentorship initiatives** to empower the next generation of ARD leaders. These efforts **are pivotal in equipping individuals with the knowledge and skills needed to drive innovation and progress** in the agricultural sector.

Fully immersed in finding ways to harness technology for ARD, the Center will **proactively explore and promote digital solutions**, precision agriculture, and data-driven decision-making as these endeavors will not only enhance productivity, but also **improve the resilience and adaptability of farming communities** in Southeast Asia.

As **a regional hub of knowledge and expertise**, SEAMEO SEARCA will remain steadfastly **committed to amplifying its influence on policy development**. It will continue to seek avenues to shape policies that champion sustainable ARD practices and rural development. By **actively engaging with policymakers and advocating evidence-based solutions**, the Center aims **to create an enabling environment conducive to positive transformation**.

**Central to all these initiatives are partnerships**. SEAMEO SEARCA fully acknowledges that tackling intricate ARD challenges demands a **multidisciplinary and collaborative approach**, one that nurtures **co-creation of innovative solutions** and **sharing of knowledge and best practices**.

As SEAMEO SEARCA continues to evolve and adapt to emerging challenges, its **role as a driving force for ARD in Southeast Asia will help** bring about **a better, bigger, smarter and more prosperous future** for the region.

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**Annex 1. Number of SEAMEO SEARCA Graduate Scholarships (Full and PhD Research), FY 2022/2023**

Country	FY2022/2023						As of 30 Jun 2023						Total
	Awarded			Ongoing			Completed			Others			
	MS	PhD	PhD Res	MS	PhD	PhD Res	MS	PhD	PhD Res	MS	PhD	PhD Res	
SEARCA Regular Scholarships													
Brunei Darussalam	0	0	0	0	0	0	0	1	0	0	0	0	1
Cambodia	0	1	0	2	0	0	33	6	1	5	3	0	51
Indonesia	0	0	4	1	9	4	147	80	15	12	11	0	283
Lao PDR	0	0	0	0	3	0	35	6	1	2	1	0	48
Malaysia	0	0	0	0	5	2	45	9	2	3	4	0	70
Myanmar	0	0	0	1	2	0	28	32	1	1	0	0	65
Philippines	0	1	4	3	7	3	141	127	57	13	10	2	368
Singapore	0	0	0	0	0	0	4	0	0	0	0	0	4
Thailand	0	0	0	1	5	1	104	119	5	3	9	0	247
Timor-Leste	0	0	0	1	1	0	25	13	0	2	2	0	44
Vietnam	0	0	1	0	5	2	46	33	4	8	5	0	104
Sub-Total	0	2	9	9	37	12	608	426	86	49	45	2	1285
Project Scholarships													
Brunei Darussalam	0	0	0	0	0	0	1	0	0	0	0	0	1
Cambodia	0	1	0	1	3	0	29	9	0	0	1	0	44
Indonesia	0	4	1	4	10	0	39	48	0	1	0	0	107
Lao PDR	0	1	0	0	1	0	31	0	0	0	0	0	33
Malaysia	2	0	0	4	7	0	7	4	0	0	1	0	25
Myanmar	3	1	0	0	3	0	24	12	0	0	0	0	43
Philippines	7	4	0	8	8	0	66	50	0	0	3	0	146
Singapore	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	0	1	1	0	3	0	63	59	0	0	0	0	127
Timor-Leste	0	0	0	0	0	0	19	2	0	4	0	0	25
Vietnam	0	0	0	2	6	0	40	15	0	1	0	0	64
Others*	0	0	0	0	0	0	28	1	0	0	0	0	29
Sub-Total	12	12	2	19	41	0	347	200	0	6	5	0	644
Grand Total	12	14	11	28	78	12	955	626	86	55	50	2	1929

\*Graduate scholarship grants managed for non-SEAMEO nationals from Bangladesh, Fiji, Ghana, and Nepal

**Annex 2. SEAMEO SEARCA Graduate Scholars, FY 2022/2023**

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
<b>New (2)</b>						
Jhon Christian P. Suyom (M)	Philippines	UPM	PhD	Aquaculture Biotechnology	Population Dynamics Modelling and Mapping of Macrobenthic Organisms in Pahang River Basin	1 Oct 2022
Lyda Hok (M)	Cambodia	KU	PhD	Agricultural Science	Systematic Stakeholder Analysis for Scaling up Digital Agricultural Extension Services for Participatory Development Communication in Cambodia	1 Aug 2022
<b>Ongoing (46)</b>						
Cheav Chhuon (M)	Cambodia	UPLB	MS	Veterinary Medicine	Prevalence of Brucellosis in Swine from Slaughterhouses of Phnom Penh, Cambodia Using Elisa Kit	1 Sep 2021

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
Bounyore Koulavong (M)	Lao PDR	UPLB	PhD	Forestry	Socio-economic Impacts of Global Change on the Forestry Sector	1 Sep 2021
Delfim Da Costa (M)	Timor- Leste	UPLB	PhD	Environmental Science	Land Use and Watershed Risk Analysis of Talao-Loes Watershed; Linking the Farming Existence Practices to the Sustainability of the Resources	1 Sep 2021
Saiphou Lormaisim (M)	Lao PDR	UPLB	PhD	Animal Science	Effect of Organic Pig Production on Growth Performance and Carcass in Nongphue Campus, Savannakhet Province, Lao PDR	1 Sep 2021
Anthony E. Amores (M)	Philippines	UPLB	PhD	Environmental Science	<i>(Dissertation is in line with carbon sequestration)</i>	1 Sep 2021
Joseph R. Pentason (M)	Philippines	UPLB	PhD	Environmental Science	<i>(To study blue carbon in mangroves)</i>	1 Sep 2021
Jemer A. Alimbon (M)	Philippines	UPLB	PhD	Environmental Science	Perceptions, Utilization, and Management of Mangroves in Davao Gulf, Mindanao, Philippines	1 Sep 2021
Karyn Christlene A. Vitor (F)	Philippines	UPLB	PhD	Environmental Science	Urban Biodiversity in Relation to Land Use and Land Cover Change	1 Sep 2021
Rambo Mao (M)	Cambodia	KU	MS	Tropical Agriculture	Agronomic Characteristics of Maize Grown in Paddy Soil, Along with Soil Chemical Properties and Soil Bacterial Numbers in the Root Zone	1 Aug 2019
Dian Kusumaningrum (F)	Indonesia	IPB	PhD	Statistics and Data Science	Development of Predictive Analytics for Crop Insurance Policy in Indonesia	1 Aug 2020
Bhakti Etza Setiani (F)	Indonesia	UB	PhD	Food Science	Biogenic Amines Evaluation and the Application of Isolated Indigenous Lactic Acid Bacteria to Reduce Biogenic Amines Content in the Fermentation Process of Soy Sauce	1 Aug 2020
Dian Ridwan Nurdiana (M)	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 Aug 2019
Yuli Haryani (F)	Indonesia	UPM	PhD	Food Biology	Application of CRISPR/Cas9 Mediated Genome Editing for Improvement of Nisin Production in Mono- and Co-culture of <i>Lactococcus lactis</i> and <i>Lactobacillus casei</i>	1 Sep 2019
Erise Anggraini (F)	Indonesia	UPM	PhD	Entomology	Biological Control of Oil Palm Insect Pest Using Entomopathogenic Virus	1 Sep 2019
Heri Kurnianto (M)	Indonesia	UPM	MS	Epidemiology and Public Health	Prevalence and Risk Factors of Fasciolosis in Dairy Cattle in Boyolali, Central Java, Indonesia	1 Sep 2019
Amar Maruf (M)	Indonesia	UPM	PhD	Community Development	Exploring the Potential Role of Patron-Client Relationship on Social Resilience to Climate Change Impacts and Risks Among Small Scale Sama Bajau Fishermen in Wakatobi National Park, Indonesia	1 Sep 2019
Dian Agustina Abidinsyah (F)	Indonesia	UPM	PhD	Animal Nutrition	Cajanus Cajan (Red Gram) Leaves as Concentrate Replacement for Goat	1 Sep 2018
Hernawan Yuli Rahmadi (M)	Indonesia	IPB	PhD	Plant Breeding and Biotechnology	Breeding for Moderate Tolerance Oil Palm Planting Material Using Conventional Breeding and Molecular Assisted Approaches	1 Sep 2018
Fadhliani (F)	Indonesia	UPM	PhD	Water Resources Engineering	Modeling Land Use Change Impacts on Water Resources Adopting a Flexible Semi Distributed Model	1 Sep 2016
Candle Sidthisone (M)	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 Aug 2019

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
Sarini Ahmad Wakid (F)	Malaysia	UPM	PhD	Biodiversity and Conservation of Natural Resources	Effect of Heavy Metal on the Expression and Properties of Glutathione S-transferase in <i>Geloina expansa</i> Mousson, 1849	1 Oct 2020
Nina Farhana Mohd Jamaludin (F)	Malaysia	UPM	PhD	Chemical Engineering	Enhancement of Biohydrogen Production from Palm Oil Mill Effluent (POME) Utilizing Immobilized Cell Induced by Magnetite Nanoparticle Via Thermophilic Anaerobic Digestion	1 Oct 2020
Siti Norazura Binti Jamal (F)	Malaysia	UPM	PhD	Plant Biotechnology	Characterization of Bioactive Compounds with Antimicrobial Properties Isolated from Mangrove Mollusks Against Plant Pathogen	1 Oct 2020
Rohasmizah Hashim (F)	Malaysia	UPM	PhD	Agronomy	Development of Pectin-based Edible Coating Enriched with Virgin Coconut Oil (VCO) and Its Potential to Inhibit <i>Fusarium oxysporum</i> on Tomato Fruit ( <i>Solanum lycopersicum</i> )	1 Sep 2019
Siti Amni Binti Ismail (F)	Malaysia	UPM	PhD	Agricultural Mechanization and Automation	Towards the Optimization of Droplet Size for Aerial Chemical Spraying Using Unmanned Aerial Vehicle (UAV)	1 Sep 2017
Ye Tun (M)	Myanmar	UPLB	PhD	Agricultural Economics	Impact of Farmland Registration and Certification on Farm-households in the Central Dry Zone of Myanmar	1 Aug 2017 - Aug 2023
Hnin Su San (F)	Myanmar	UPLB	MS	Agricultural Economics	Supply Chain Analysis of Grape Production in Yamethin Township, Myanmar	1 Aug 2019
Myint Myat Moe (F)	Myanmar	KU	PhD	Agricultural and Resource Economics	Environmental Efficiency and Farmers' Preferences on Sustainable Agricultural Practices of Rice Production in Bago Region, Myanmar	1 Aug 2019
Michelle B. Gatab-Laruan (F)	Philippines	UPLB	PhD	Development Communication	Youth Farmers' Constructs of Organic Farming and Engagement in Agripreneurship in La Trinidad, Benguet: Intergenerational Communication Perspective	1 Aug 2020
Maria Cristina P. Pammit (F)	Philippines	UPLB	MS	Agricultural Economics	Farmers to Markets Link Through Growers Organization: Onion Supply Chain Redesign for Ilocos Norte, Philippines	1 Aug 2019
Michael Noel R. Bonghanoy (M)	Philippines	UPLB	MS	Development Communication	Exploring the Communicative Ecology of a Lumad (Indigenous) Community in Mindanao: Towards Improving Agricultural Communication Practices	1 Aug 2020
Jan Danica S. Asma (F)	Philippines	UPLB	PhD	Development Studies	Adoption of Standards for Improved Production and Marketability of Duck Egg Products	1 Aug 2019
Judith O. Jimena (F)	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 Aug 2019
Sheera Mae N. Diango (F)	Philippines	UPLB	MS	Agricultural Economics	Value Chain Analysis of Rice in some Selected Areas in Mindanao, Visayas, and Luzon	1 Aug 2019
Rattiporn Arphavasin (F)	Thailand	UPLB	MS	Extension Education	Factors Involved with Adoption on Good Agricultural Practices of Coconut Growers in Samutsakhon Province, Thailand	1 Aug 2017
Kietnapa Wongchanta (F)	Thailand	UPLB	PhD	Extension Education	Aromatic Coconut Supply Chain Management: Case Study on Coconut Big Farm in Banphaeo District, Samut Sakhon Province, Thailand	1 Aug 2017



Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
Komsan Tantichukiad (M)	Thailand	UPM	PhD	Mechanical Engineering	Performance Investigation of Combined Delta-blade Shaped Darrieus with Savonius Hydrokinetic Rotors and Its Implementation in Agricultural Rural Areas	1 Mar 2018
Natcha Leevisitpattana (F)	Thailand	UPM	PhD	Environmental Policy and Governance	Decision-making and Agricultural Public Policy for Carbon Credit Supporting	1 Sep 2011
Chanoknan Srilapat (F)	Thailand	UPM	PhD	Agribusiness	Development and Management of Supply Chain for Hang-rice Production in Sakon Nakhon Province, Northeast Thailand	1 Sep 2018
Krisdakorn Wongwai (M)	Thailand	UPM	PhD	Agribusiness	Small Farmers' Motivation to Participate in Contract Farming with Sugarcane Loading Station in Thailand	1 Feb 2016
Carlos Amaral (M)	Timor- Leste	UPLB	MS	Agricultural Economics	Profit Efficiency of Rice Farming and Its Determinants Among Farmers in Bobonaro District, Timor-Leste	1 Aug 2014
Nguyen Xuan Diep (M)	Vietnam	UPLB	PhD	Agricultural Economics	Willingness to Pay for Water Quality Improvement in Handicraft Villages of Hungyen Province	1 Aug 2019
Trang Thi My Duyen (F)	Vietnam	KU	PhD	Agricultural and Resource Economics	Assessment of Adaptive Capacity to Salinity Intrusion of Rice Farmers and Local Government in the Mekong Delta, Vietnam	1 Aug 2019
Nguyen Tien Phong (M)	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 Aug 2019
Hoang Le Huong (F)	Vietnam	UPLB	PhD	Forestry	Study of Climate Change Impacts on Drought and Adaptation Strategies in Binh Thuan Province, Vietnam	1 Aug 2019
Tran Thanh Liem (M)	Vietnam	UPLB	PhD	Agricultural Economics	Acacia Hybrids Supply Chain for Productive Afforestation in the Northern of Vietnam	1 Aug 2019
<b>Completed (17)</b>						
Andi Nur Cahyo (M)	Indonesia	UGM	PhD	Agronomy	Identification of Physiological Traits Associated with Drought Tolerance in Rubber ( <i>Hevea brasiliensis</i> Müll. Arg.)	1 Sep 2018 - Jan 2023
Sepina Asih Widuri (F)	Indonesia	IPB	MS	Plant Biology	Secretory Structure Characterization and Secondary Metabolites Profiling of Akar Kuning ( <i>Fibraurea tinctoria</i> Lour.)"	1 Sep 2018 - Nov 2022
Syamsu Eka Rinaldi (M)	Indonesia	IPB	MS	Natural and Environmental Resource Management	Potential Forestry Partnerships for Forest Conservation and Community Welfare: The Case in Samboja, East Kalimantan	1 Sep 2018 - Sep 2022
Viangvilaiphone Botthoulath (M)	Lao PDR	UPLB	PhD	Microbiology	Isolation, Identification, Probiotic Evaluation of Lactic Acid Bacteria and Their Use as Starter Culture for Lao Traditional Bamboo Shoot Fermentation (Nor mai som)	1 Aug 2019 - Jun 2023
Phoukeo Saokhamkeo (M)	Lao PDR	KU	PhD	Agricultural Research and Development	Socio-economic Analysis Under Commercial Rice Farming Approach in Vientiane Capital, Middle Laos	1 Aug 2015 - Jun 2023
Noor Azrimi Umor (M)	Malaysia	UPM	PhD	Microbiology	Towards the Optimization of Droplet Size for Aerial Chemical Spraying Using Unmanned Aerial Vehicle (UAV)	1 Sep 2018 - May 2023
Shirly C. Serrano (M)	Philippines	KU	PhD	Environmental Science	Climate Change Vulnerability Assessment of the Coastal Ecosystems And Communities in Zambales, Philippines	1 Aug 2019 - Feb 2023

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
Karen S. Bautista (M)	Philippines	UPLB	PhD	Agronomy	Spatial Variations in Soil Properties, Soil Productivity and Crop Yield in Selected Corn Producing Provinces in Cagayan Valley Region	1 Aug 2019 - Mar 2023
Medino Gedeun N. Yebbron, Jr. (M)	Philippines	UPLB	PhD	Molecular Biology and Biotechnology	Breeding of Paraoakan Native Chicken for Sustainable Development	1 Aug 2019 - Mar 2023
Nget Raby (M)	Cambodia	UPLB	PhD	Agronomy	Growth, Yield, and Grain Quality of Selected Soybean Genotypes Applied with Different Nitrogen and Phosphorous Fertilizer Treatments	1 Aug 2019 - Aug 2022
Rini Widyastuti (M)	Indonesia	IPB	PhD	Veterinary Medicine	Bovine Embryos Developmental Fertilized by a Single Injection of Pasundan Bull Sperm were Incubated in Extreme pH Media	1 Aug 2020 - Dec 2022
Nguyen Nam Giang (M)	Vietnam	UPLB	PhD	Agricultural Economics	The Sustainable Development of Edible Mushroom Production in the Red River Delta, Vietnam	1 Aug 2019 - Jun 2023
Joana Paula Gerabella Da Costa Moniz (M)	Timor- Leste	IPB	MS	Animal Science Production and Technology	Quality of Physikokima, Organoleptics, and Microbiology of Se'i Meat (Meat Smoke) in Cold Temperature Storage	1 Aug 2019 - Aug 2022
Agostinha Soares Amaral (M)	Timor- Leste	UPLB	MS	Animal Science	Development of Cassava Based Feeding System in Native Pigs	1 Aug 2019
Manuel Da Costa (M)	Timor- Leste	IPB	PhD	Veterinary Public Health	Food Safety Chicken Meat Sold Timor-Leste with Improvement in Knowledge and Practice of Vendors Program	1 Aug 2019 - Jul 2022
Luis Manuel Branco (M)	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 Sep 2016 - Jun 2023
Natalino De Araujo (M)	Timor- Leste	UPLB	PhD	Forestry	Carbon Stock Estimation of <i>Coffea arabica</i> L. Agroforestry Farms in Ermera District, Timor-Leste	1 Aug 2017 - Jun 2023
<b>Terminated (2)</b>						
Muhammad Syukril (M)	Indonesia	UGM	PhD	Environmental Sciences	Sustainable Development and Spatial Knowledge Management for Agriculture in Mining Province	1 Aug 2018
Simao Margono Belo (M)	Timor- Leste	UPLB	PhD	Community Development	Household and Community Benefits from Commercial Seed Production of Maize of Timor-Leste	1 Aug 2019

\*M - male, F - female

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

### Annex 3. SEAMEO SEARCA PhD Research Scholars, FY 2022/2023

Name	Country	Study Post	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
<b>New (11)</b>					
John Dave Aquino (M)	Philippines	Oxford University	Biology-Plant Sciences	Uncovering the Role of RNA-Binding Proteins and Cognate RNA in Plant Immunity	Jul 2022
Analiza C. Ouano (F)	Philippines	UPLB	Soil Science	Formulation and Characterization of Controlled-release Fertilizers Using Water Hyacinth Cellulose-based Coating	Aug 2022
Duta Setiawan (M)	Indonesia	IPB	Animal Nutrition and Feed Science	Modelling Feed Security and Sustainability for Livestock Production in West Kalimantan: A system dynamic approach	Aug 2022

Name	Country	Study Post	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
Rosawadee Sukkum* (F)	Thailand	KU	Agricultural and Resource Economics	Environmental Values and Economic Development: The conditions for the extension of sustainability certification among oil palm smallholders in Thailand	Aug 2022
Indah Waty Bong* (F)	Indonesia	UGM	Geography	Local Natural Resource Management and Autonomous Conservation Practices in Indonesia	Jan2023
Nur Hidayat (F)	Indonesia	UGM	Animal Science	Potential of Tropical Seaweed Extract Nanoencapsulation as a Feed Additive to Reduce Methane Emissions in Ruminants	Apr 2023
Wildan Fajar Bachtiar (M)	Indonesia	UGM	Industrial Engineering	Development of a sustainable Halal Traceability Framework to Improve the Quality and Safety of Food Supply Chain	Apr 2023
Imam Tri Wahyudi (M)	Indonesia	IPB	Aquaculture Sciences	Dietary Supplementation of Cinnamaldehyde to Improve Fillet Quality of Stripped Catfish <i>Pangasianodon hypophthalmus</i>	Apr 2023
Nguyen Vanh Thanh (M)	Vietnam	Okayama University	Natural Resource Governance	Livelihoods and Governance of Non- timber Forest Products in the Uplands of Vietnam	Apr 2023
Rhea Joy D. Flora (F)	Philippines	West Visayas State University	Agriculture-Crop Science	Effects of Creeping Daisy on the Properties of Soils Under the Selected Plantation Crops and on the Growth and Nutrient Uptake of Cashew Seedlings	Apr 2023
Dia Noelle F. Velasco (F)	Philippines	UPLB	Agribusiness Management	Developing an Efficient Marketing System for the Mango Industry in Pangasinan, Philippines	Apr 2023
<b>Ongoing (12)</b>					
Bui Quang Van (M)	Vietnam	Vietnam National University of Agriculture	Economics Development	Analysis of Smallholders Beef Cattle Value Chain in Dien Bien Province, Vietnam	Nov 2019
Mohamad Arif (M)	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	Feb 2020
Agustine Restiyana (F)	Indonesia	UGM	Animal Science	Strategy of Ongole Grade Cattle Business Development in Central Java, Indonesia	Feb 2020
Yayat Nurhidayat (M)	Indonesia	UPM	Chemical Engineering	Surface Functionalized-oil Palm Empty Fruit Bunches (OPEFB) Derived Nanocrystal Cellulose (NCC) Membrane: Fabrication and performance evaluation for wastewater treatment	Feb 2020
Risa Nursanty (F)	Indonesia	UPM	Food Science	Antibacterial Activity, Phytochemistry, and Toxicity Analyses of <i>Aleurites moluccana</i> L. and Its Application in Food System	Feb 2020
Banjie G. Sarmiento (F)	Philippines	UPLB	Environmental Science	Climate Resilience of Coconut-based Agroecosystems in Luzon, Philippines	Jun 2020
Khairun Najihah Sabri (F)	Malaysia	UPM	Food Service Management	Development of a Mindset Model for Food-based Social Entrepreneurs: Towards sustainable local food security and social well-being	Jun 2020
Nguyen Quang Minh (M)	Vietnam	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	Jan2019



Name	Country	Study Post	Major Field	Title of Thesis or Dissertation	Date Awarded to Date Completed
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	Jun 2019
Emmy Farha binti Alias (F)	Malaysia	University of Bergen, Norway	System Dynamics	Adoption and Diffusion of Sustainable Paddy Production System in Malaysia	Jun 2017
Mitchiko A. Lopez (F)	Philippines	UPLB	Development Studies	Mainstreaming Gender in Cocoa Agricultural Value Chain in Davao City, Southern Philippines	Jun 2017
Sarayut Trirat (M)	Thailand	CLSU	Plant Breeding	Genetic Potential of Selected Aromatic Rice Varieties as Combiners, Restorers, and Maintainers for Hybrid Development	Nov 2011
<b>Completed (5)</b>					
Haerold Dean Z. Layaoen (M)	Philippines	Royal Melbourne institute of Technology (RMIT) University, Melbourne, Australia	Supply Chain and Logistics	The Greenness of Logistics Practices: A study of the antecedents and the triple bottom line outcomes	Nov 2019 - Jun 2023
Kamla Zyra G. Lavadia (F)	Philippines	UPLB	Development Communication	Communication Initiatives and Socio-cultural Construction of Disaster Risk Among Stakeholders in a Coastal Community in Infanta, Quezon, Philippines	Nov 2019 - Jun 2023
Bogarth Kalikitnggamu Watuwaya (M)	Indonesia	Hasanuddin University, Makassar, Indonesia	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	Feb 2020 - Jul 2022
Melanie Henson Narciso (F)	Philippines	University of Georgia	Cultural Anthropology	Persistence of Pampango Rice-based Fermentation Traditions in the Context of the Changing Rice Landscape in the Philippines	Feb 2020 - Apr 2023
Nurazwin Zulkifli (F)	Malaysia	UPM	Agriculture Process Engineering	Simulation Modelling in Mechanical Responses in Papaya	Jun 2019 - Oct 2022

\*The scholars in this list are cross-listed in Annex 3

\*\*M - male, F - female

\*\*\*CLSU - Central Luzon State University, IPB - Institut Pertanian Bogor, KU - Kasetsart University, UGM - Universitas Gadjah Mada, UPLB - University of the Philippines Los Baños, UPM - Universiti Putra Malaysia

#### Annex 4. SEAMEO SEARCA Project Scholars, FY 2022/2023

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
<b>German Academic Exchange Service (DAAD) - SEARCA (46)</b>						
<b>New (9)</b>						
Micah Abegail C. Maman (F)	Philippines	UPLB	MS	Plant Breeding	Phenotyping and Molecular Screening of Selected Rice Genotypes for the Identification of Fertility Restorers for Three-line Hybrid	1 Sep 2022
Winslet J. Ramos (F)	Philippines	UPLB	MS	Plant Pathology	Evaluation and Morphological Characterization of Mycorrhizal Fungal Communities Inhabiting Plant Roots and Soil	1 Sep 2022
Reymond Denver Q. Buenaseda (M)	Philippines	KU	MS	Applied Economics for Agriculture and Environment	Understanding the Behavior of Filipino Farmers in Using Publicly Available Market Information	1 Aug 2022

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
Bates M. Bathan (M)	Philippines	KU	PhD	Agricultural and Resource Economics	Market Liberalization and Integration of the Philippine Rice Markets	1 Aug 2022
Hendra (M)	Indonesia	KU	PhD	Tropical Agriculture	Bacterial Microbiota of Rice Seed and Development of Electrochemical Biosensor for Rapid Detection of Bacterial Seed Borne Pathogens of Rice	1 Aug 2022
Nitphone Senganatham (M)	Lao PDR	KU	PhD	Environmental Science	Developing the Decision Support System in Flood Management for Climate and Land Use Change Adaptation: Case of Xe Bangfai Watershed, Lao PDR	1 Jul 2022
Khin Mu Aye (F)	Myanmar	KU	MS	Tropical Agriculture	Assessment of Genetic Diversity in Sesame Genotypes from Myanmar and Thailand using SSR Markers and Morphological Traits	1 Aug 2022
Chue Htet Hnin (F)	Myanmar	UPLB	MS	Agricultural Economics	Analysis of Food and Nutrition Security in Urban Poor Households, Mandalay, Myanmar	1 Sep 2022
Moh Moh (F)	Myanmar	KU	PhD	Agricultural and Resource Economics	Can the Adoption of Labor-saving Technology Make Rice Production More Efficient and Profitable? A case study of Ayeyarwaddy Region, Myanmar	1 Aug 2022
<b>Ongoing (31)</b>						
Hagi Sujateruna (M)	Indonesia	KU	MS	Tropical Agriculture	Effect of Temperature Phasing Method and Coating on 'Kluai Khai' Banana Antioxidant Properties and Physicochemical Quality During Ripening	1 Aug 2021
M Royan (M)	Indonesia	KU	MS	Applied Economics for Agriculture and Environment	Factors Affecting the Adoption of Good Agricultural Practices of the Java Arabica Jumbling-Sindoro in Temanggung Regency	1 Aug 2021
Akhmad Zamroni (M)	Indonesia	UPLB	PhD	Environmental Science	Anthropogenic and Geological Factors Influencing Morphological Changes in the Progo River and Its Impacts on the Farmers' Livelihood in Daerah Istimewa Yogyakarta Province, Indonesia	1 Sep 2021
Imas M. Devangsari (F)	Indonesia	UPLB	PhD	Environmental Science	Active Fe-Al and Humus Complexation Under Different Land- Management on Andisols in Central Java, Indonesia	1 Sep 2021
Phouthasone Khouangvichit (M)	Lao PDR	UPLB	PhD	Environmental Science	Assessment of Climate Change Impacts on Bueng Eor Marsh Communities in Xayboully District, Savannakhet Province, Lao PDR	1 Sep 2021
Chan Myae Lwin (F)	Myanmar	KU	PhD	Agricultural and Resource Economics	Consumers' Valuation of Fortified Rice in Naypyitaw, Myanmar	1 Aug 2021
Thaw Tar Tin Shwe Oo (F)	Myanmar	UPLB	PhD	Plant Breeding	Molecular Genetics of Submergence Tolerance in Rice ( <i>Oryza sativa</i> L.) by Using Myanmar Rice Landraces	1 Sep 2021
Ngwe Sin Moe Satt (F)	Myanmar	UPLB	PhD	Plant Breeding	Screening of Myanmar Local Rice Accessions for Heat Tolerance, Mapping of QTLs (Quantitative Trait Loci) and detecting DNA Markers Linked to Those QTLs at Flowering Stage	1 Sep 2021
Arjay A. Gerance (M)	Philippines	KU	MS	Applied Economics for Agriculture and Environment	Adoption of Organic Farming Practices for Selected Vegetables: Evidence from Laguna, Philippines	1 Aug 2021

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
Gladys C. Dinglasan (F)	Philippines	UPLB	MS	Agronomy	Dry Matter and Protein Yields of Selected Adlai ( <i>Coix lacrymajobi</i> L.) Varieties Under Varying Nutrient Applications	1 Sep 2021
Monique V. Corpuz (F)	Philippines	UPLB	MS	Agronomy	Maize-soybean Production System to Increase Productivity Under Laguna, Philippines	1 Sep 2021
Julie Zarene A. de Guzman (F)	Philippines	UPLB	MS	Environmental Science	Filipino Women's Environmental Work in Urban Organic Waste and Resource Management	1 Sep 2021
Lawrence Yves C. Uy (M)	Philippines	UPLB	PhD	Genetics	Identification and Validation of Mutated Genes in <i>Setaria viridis</i> Photosynthesis Mutants	1 Sep 2021
Arunee Suwanngam (F)	Thailand	KU	PhD	Tropical Agriculture	Detection of Plant-parasitic Nematodes in Thai Agricultural Exports Using Loop-mediated Isothermal Amplification (LAMP) Assay	1 Aug 2021
Ayu Sepi Anggraeni (F)	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 Sep 2020
Muhammad Chrisna Satriagasa (M)	Indonesia	KU	PhD	Forestry	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 Jan 2021
Cipto Nugroho (M)	Indonesia	UPLB	PhD	Plant Pathology	Epidemiology of the Rice Blast in Rice-Maize Intercropping System in Indonesia	1 Aug 2019
Chindy Ulma Zanetta (F)	Indonesia	UPM	PhD	Plant Science	Agro-morphological Response and Molecular Characterization of Heat Stress Tolerance in Pea ( <i>Pisum sativum</i> L.)	1 Aug 2019
Gita Addelia Nevara (F)	Indonesia	UPM	PhD	Food Science	Physicochemical, Functional and Rheological Characteristics of Fractionated Kenaf ( <i>Hibiscus cannabinus</i> L.) Seed Fiber	1 Oct 2019
M Murugan Manikam (M)	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 Feb 2020
Nursabrina Binti Munawar (F)	Malaysia	UPM	PhD	Food Technology	Improvement of Herbal Tea Production: Nutritional, Quality, and Safety	1 Sep 2019
Nor Akhlisah Binti Zulkipli (F)	Malaysia	UPM	PhD	Environmental Engineering	Synthesis of Ethyl Levulinate by Oil Palm Empty Fruit Bunch	1 Feb 2019
Anne Gellie P. Pablo (F)	Philippines	KU	PhD	Food Science	Impact of Calcium-alginate Microencapsulation to Stability of Vitamin C and Phenolics in Indian Gooseberry Juice	1 Jan 2021
Marla V. Relloso (F)	Philippines	UPLB	PhD	Agricultural Economics	Supply and Value Chain Analysis of the "Queen" Pineapple Industry in Camarines Norte	1 Aug 2018
Zyra May H. Centino (F)	Philippines	UPLB	PhD	Agricultural Economics	Economic Analysis of the Demand for Crop Insurance as a Climate Risk Management Strategy Among Vegetable Farmers in Leyte, Philippines	1 Aug 2018
Edchelle S. Flores (F)	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 Aug 2018



Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
Mai Thanh Huong (F)	Vietnam	UPLB	PhD	Agricultural Economics	Value Chain Analysis of Geographic Indications Coffee Buon Ma Thuot in Dak Lak Province of Vietnam	1 Aug 2019
Mai Chiem Tuyen (M)	Vietnam	KU	PhD	Agriculture and Resource Economics	Rice Contract Farming in Vietnam: Farmers' Perception and Preferences	1 Aug 2018
Mai Tien Huy (M)	Vietnam	UPLB	PhD	Agricultural Economics	Value Chain Analysis of Cassava in Central Highlands of Vietnam	1 Aug 2018
Phan Xuan Tan (M)	Vietnam	UPLB	PhD	Agricultural Economics	Linkages in Production and Distribution of Dairy Farming: A case study in the North of Vietnam	1 Aug 2018
Nguyen Linh Trung (M)	Vietnam	UPLB	MS	Agricultural Economics	Technical Efficiency and Profitability of VietGAP Adoption of Tomato Farming in Hung Yen Province, Vietnam	1 Aug 2017 (Completing requirements for graduation)
<b>Completed (6)</b>						
Vina Eka Aristya (F)	Indonesia	UGM	PhD	Agricultural Sciences	The Effectiveness of Rice Participatory Varietal Selection in Central Java	1 Aug 2018 - Aug 2022
Antun Puspanti (F)	Indonesia	UGM	PhD	Forestry	Model Rehabilitation of Degraded Land Towards Ecosystem Restoration in Paliyan Wildlife Reserve, Gunung Kidul, Yogyakarta Province	1 Aug 2017 - May 2023
Mohd Azlin Bin Mohd Nor (M)	Malaysia	UPM	PhD	Biocomposite Technology and Design	Development and Characterization of Woven Kenaf/Polyester Reinforced PLA Hybrid Composites	1 Aug 2019 - Mar 2023
Shampazuraini Binti Samsuri (F)	Malaysia	UPM	PhD	Plant Science	Enhanced Intercropping Productivity of Sweet Corn-Okra in Young Rubber Plantation	1 Sep 2018 - Dec 2022
Shemaiah Gail P. Placencia (F)	Philippines	UPLB	MS	Agricultural Economics	Exploring Pathways Towards Sustainable Cacao Production in Davao Region, Philippines	1 Sep 2020 - Jun 2023
Romiel John P. Basan (M)	Philippines	UPLB	PhD	Agricultural Economics	Economic and Spatio-Temporal Analysis of Food and Nutrition Security in Mindanao	1 Jan 2019 Jun 2023
<b>Terminated (1)</b>						
Nguyen Tuan Tran Ngoc (M)	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 Aug 2017
<b>National Taiwan University (NTU) - SEARCA (11)</b>						
<b>New (4)</b>						
Aeron R. Mojica (M)	Philippines	NTU	MS	Global ATGS	Monitoring and Management of Major Pests and Diseases of Corn and Onion through Robotics and Drone Technology	1 Sep 2022
Jason O. Gica (M)	Philippines	NTU	MS	Global ATGS	Building a Sustainable Rabbit Production in the Philippines	1 Sep 2022
Carla Kristine M. Silva (F)	Philippines	NTU	MS	Global ATGS	Monitoring Food System Through Barcoding of Good Agricultural Practices-certified Farm with Hybrid, Open-pollinated, and Genetically Modified Seeds	1 Sep 2022
Mai Ngwe Ei Zin (F)	Myanmar	NTU	MS	Global ATGS	Developing Integrated Agriculture Environmental Management System for Sustainable Rural Development in the Context of Climate Change: Case Study in Wet Te Ku Group of Villages, Myanmar	1 Sep 2022

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
<b>Ongoing (5)</b>						
John Louie P. Baligad (M)	Philippines	NTU	MS	Global ATGS	Molecular Determination of Antimicrobial Resistance in <i>Escherichia coli</i> Isolated from Dairy Farm in the Philippines and Taiwan	1 Sep 2021
Miguelito F. Isip (M)	Philippines	NTU	MS	Global ATGS	Development of Strategies for Precision Disease Management of High-value Crops Using Multi-spectral Data from UAV Imagery	1 Sep 2021
Yulita Dwiningsih (F)	Indonesia	NTU	MS	Global ATGS	The Application of Pathogens Tolerance of Plants through Genetic Improvement	1 Sep 2021
Muhammad Yusril Hardiansyah B. (M)	Indonesia	NTU	MS	Global ATGS	Analysis of The Seeds Quality Improvement of MCC 01 Cocoa Variety and Local Variety of Gantarangeke (GTB) South Sulawesi, Indonesia Through Fermentation Using <i>Lactobacillus</i> sp., <i>Pichia kudriavzevii</i> , and <i>Acetobacter xylinum</i>	1 Sep 2021
Ngoc Hai Trieu Phong (F)	Vietnam	NTU	MS	Global ATGS	Genetic Analysis of Salinity Tolerance in a Rice Backcross Population at Seedling Stage	1 Sep 2021
<b>Completed (2)</b>						
Felix Subakti (M)	Indonesia	NTU	MS	Global ATGS	Software-based Process Simulation and Feasibility Assessment of a Black Soldier Fly Larvae Fatty Acid Extraction and Fractionation Plant	1 Sep 2020 - Sep 2022
Aisyah Fitri Rohani (F)	Indonesia	NTU	MS	Global ATGS	Detection of Quantitative Trait Loci Associated with Rice Seedling Iron (Fe) Tolerance	1 Sep 2020 - Sep 2022
<b>Universiti Putra Malaysia (UPM) - SEARCA (8)</b>						
<b>New (1)</b>						
Satria Bhirawa Anoraga (M)	Indonesia	UPM	PhD	Agricultural Process Engineering	Cocoa Pod Husk Pectin Extraction and Application as Emulsifier in Dark Chocolate Production	1 Oct 2022
<b>Ongoing (7)</b>						
Bunnet Nha (F)	Cambodia	UPM	PhD	Animal Science	Effect of Different Total Mixed Ration Degradation Rates on Lactation Performance and Methane Production of Dairy Goats	1 Oct 2021
Yap Sing Yee (F)	Malaysia	UPM	MS	Aquaculture	Next-generation Sequencing (NGS) for Determination of <i>Vibrio</i> spp. from Cultured Marine Fish Species in Malaysia	1 Mar 2022
Siti Sarah binti Jumali (F)	Malaysia	UPM	PhD	Biochemistry	Post-infection Protein Cyclization of Bacteria Leaf Pathogen ( <i>Xanthomonas oryzae</i> ) in Rice ( <i>Oryza sativa</i> )	1 Mar 2022
Rahmah Nur Lailatul (F)	Indonesia	UPM	PhD	Food Engineering	Subcritical Water Extraction Process of Tannin from Areca Cathecu and Its Application in Agro-Industry	1 Oct 2020
Shanti Dwita Lestari (F)	Indonesia	UPM	PhD	Food Science and Technology	Malaysian Budu: From processing to physicochemical, microbiological and bio-accessibility of fish protein	1 Oct 2020
Truong Hong Vo Tuan Kiet (M)	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 Sep 2018

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
Arissara Sopawong (F)	Thailand	UPM	PhD	Biodiversity and Conservation of Natural Resources	Establishment of Biogreen Floating Aquaculture System for Improvement of Water Quality and Fish Production	1 Sep 2017
<b>Bulacan State University (BulSu) - SEARCA (4)</b>						
<b>New (3)</b>						
Arjay R. Alba (M)	Philippines	Mapua University	PhD	Computer Engineering	Development of Wireless Sensor Networks and Power Transfer Technology Towards Sustainable Farming	1 Aug 2022
Jenette C. Centeno (F)	Philippines	Mapua University	PhD	Electronic Engineering	Developing Smart Devices to Monitor the Impact of Climate Change on Aquatic Ecosystems	1 Nov 2022
Dion Michael M. Mendoza (M)	Philippines	Mapua University	PhD	Electronic Engineering	Development and Optimization of a Smart Aquaculture Systems	1 May 2023
<b>Ongoing (1)</b>						
Jun-Jun P. Santos (M)	Philippines	De La Salle University	PhD	Civil Engineering	Improvement of Buckling Resistance of Steel Reinforcement	1 Mar 2021
<b>Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN) in Cambodia - SEARCA (3)</b>						
<b>New (1)</b>						
Channaty Ngang (F)	Cambodia	KU	PhD	Agricultural Science	The Pathways to Improving Extension of Sustainable Agricultural Intensification Practices to Secondary School Students and Communities Through Activities of Mini-Agricultural Technology Parks in Cambodia	1 Aug 2022
<b>Ongoing (2)</b>						
Punlork Men (M)	Cambodia	KU	PhD	Agricultural Science	Innovative Mechanisms to Engage Private Sector in an Agricultural Extension Model in the Transfer and Adoption of Conservation Agriculture Production Systems	1 Jan 2022
Vandy Hok (M)	Cambodia	KU	PhD	Agricultural Science	Identification of Limiting Factors in Partnership for Agricultural Research Commercialization in Cambodia	1 Jan 2022
<b>Tokyo University of Agriculture (NODAI) - SEARCA (2)</b>						
<b>New (1)</b>						
Asman (M)	Indonesia	Tokyo NODAI	PhD	Plant Pathology	Distribution and Resistance of Cocoa Dieback Disease of Cocoa Caused by Lasiodiplodia the Obromae in Indonesia	1 Jul 2022
<b>Completed (1)</b>						
Lilian P. Villamor (F)	Philippines	Tokyo NODAI	PhD	Bioscience	Research on the Insecticide Resistance of Indoxacarb, Fipronil, and Imidacloprid of Jassid (Amrascadevastans) on Cotton	1 Sep 2018 - Oct 2022
<b>Malaysian Agricultural Research and Development Institute (MARDI) - SEARCA (6)</b>						
<b>New (2)</b>						
Mohd Ridzuan bin Mohd Daud (M)	Malaysia	UPM	MS	Plant Science	Impact of Land Use Management on Soil Properties of Selected Plantations and Natural Forest in Sintok, Kedah	1 Oct 2022
Shamsul Amri Bin Saidon (M)	Malaysia	UPM	MS	Genetics and Plant Breeding	Multivariate Analysis of Salinity and Submergence Tolerance for Selected Rice Genotypes	1 Oct 2022



Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
<b>Ongoing (4)</b>						
Salehudin Bin Md Radzuan (M)	Malaysia	KU	MS	Tropical Agriculture	Relationship of Silicon Based Salt with Banana Vascular Bundles Morphology and <i>Fusarium oxysporum</i> F. sp. cubense Infection	1 Aug 2021
Mohd Zaffrie Bin Mat Amin (M)	Malaysia	UPM	PhD	Agricultural Business	Forecasting Agricultural Sector Modeling for Food Sector Supply and Demand	1 Oct 2021
Mohd Solihen Bin Jamal (M)	Malaysia	UPLB	MS	Plant Breeding	Improvement of Blast Resistant in Malaysian Rice Cultivars through Doubled Haploid Breeding Approach	1 Sep 2020
Mohd Faiz Bin Musa (M)	Malaysia	UPLB	MS	Extension Education	Technology Efficiency to MARDI Techno Agropreneur	1 Jan 2021
<b>Agropolis Fondation, France - SEARCA (4)</b>						
<b>New (2)</b>						
Rosawadee Sukkum (F)	Thailand	KU	PhD	Agricultural and Resource Economics	Environmental Values and Economic Development: The conditions for the extension of sustainability certification among oil palm smallholders in Thailand	1 Sep 2022
Indah Waty Bong (F)	Indonesia	UGM	PhD	Geography	Local Natural Resource Management and Autonomous Conservation Practices in Indonesia	1 Jan 2023
<b>Ongoing (2)</b>						
Chaisiri Kitpaosong (M)	Thailand	KU	PhD	Biotechnology	Furanic Acid F2 (FuFA-F2) from <i>Hevea brasiliensis</i> Latex: Toward a transition to an ecologically responsible production of bioactive molecules in a society that sustainably manages its natural resources	1 Jan 2022
Marich Nur Maqsalina (F)	Indonesia	IPB	PhD	Entomology	Integrated Pest Management Strategy Against Coffee Berry Borers Based on Their Dispersion Capacity in North Sumatra, Indonesia	15 Jan 2022
<b>Agropolis - UPM - SEARCA (4)</b>						
<b>Ongoing (3)</b>						
Julia Ng Su Chen (F)	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 Sep 2019
Yao Tze Leong (M)	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 Sep 2019
Nguyen Van Hieu (M)	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 Jan 2020
<b>Completed (1)</b>						
Junaidi (M)	Indonesia	UGM	PhD	Biological Sciences	Biochemical, Near-infra Red Spectroscopy Analysis of Reactive Oxygen Species-scavenging Systems in Latex of <i>Hevea brasiliensis</i>	17 Jan 2019 - Feb 2023

Name	Country	Study Post	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded - Date Completed
<b>Sejong University - SEARCA (2)</b>						
<b>New (1)</b>						
Pete Maverick Nicole Estudillo (F)	Philippines	Sejong University	MS	Integrative Biological Sciences and Industry	Improvement of Efficacy of Horticultural Resources for Immunity Enhancement and Development of Production Standardization	1 Feb 2023
<b>Ongoing (1)</b>						
Ian Paul D. Navea (M)	Philippines	Sejong University	MS	Integrative Biological Sciences and Industry	Fine-mapping and Isolation of Gene(s) for Panicle Length in Rice Grown Under Low Phosphorus (P) and Mild-drought Conditions	1 Aug 2021
<b>Philippine Carabao Center (PCC) - SEARCA (2)</b>						
<b>Ongoing (2)</b>						
Ma. Theresa R. Sawit (F)	Philippines	UPLB	PhD	Development Studies	Establishing a Business Hub Model: A framework for sustainable and inclusive dairy industry development	1 Sep 2020
Jesus Rommel V. Herrera (M)	Philippines	University of New England	PhD	Animal Breeding and Genetics	The Use of Genomic Data in a Dairy Buffalo Breeding Program	1 Jun 2015
<b>Universiti Sains Malaysia (USM) - CE SAIN - SEARCA (1)</b>						
<b>Ongoing (1)</b>						
Kroesna Mon (F)	Cambodia	USM	MS	Aquatic Biology	The Efficiency of Different Levels of Locally Produced of Alternative Protein Sources and Food Additive for Fishmeal Replacement in Aqua-feed for Freshwater Clarias Culture	1 Oct 2021
<b>Nagoya University (NU) - SEARCA (2)</b>						
<b>Ongoing (1)</b>						
Darwin M. Landicho (M)	Philippines	NU	PhD	Bioagricultural Sciences	Detection, Quantification, and Genomic Analysis of Candidatus Phytoplasma Causing Cassava Witches' Broom (CWB) Disease in the Philippines	1 Sep 2021
<b>Completed (1)</b>						
Maria Cristina F. Campita (F)	Philippines	NU	PhD	Bioagricultural Sciences	Agricultural Marketing Analysis of Queen Pineapple in the Philippines Towards Effective Value Chain Management	1 Mar 2021- Mar 2023

\*F - female, M - male

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

**Annex 5. SEAMEO SEARCA Dual Degree Programs, FY 2022/2023**

Name	Country	Host Institution	Home University	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded	Funding Source
<b>New (4)</b>								
Rosawade e Sukkum (F)*	Thailand	L'Institut Agro Montpellier	Kasetsart University (KU)	PhD	Agricultural and Resource Economics	Environmental Values and Economic Development: The conditions for the extension of sustainability certification among oil palm smallholders in Thailand	1 Sep 2022	Agropolis Fondation (AF) - Universiti Putra Malaysia (UPM)

Name	Country	Host Institution	Home University	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded	Funding Source
Arjay Gerance (M)	Philippines	L'Institut Agro Montpellier	KU	MS	Applied Economics for Agriculture and Environment	Assessment of the Socio-economic Outcomes from Postharvest Systems Improvements in Selected Tomato Supply Chains: Evidence from Laguna and Nueva Vizcaya, Philippines	1 Jul 2022	DAAD, KU and L'Institut Agro Montpellier
M Royan (M)	Indonesia	L'Institut Agro Montpellier	KU	MS	Applied Economics for Agriculture and Environment	The Economic Effects of Implementing the Rural Funds on the Development of the Rural Agro Edu-tourism	1 Jul 2022	DAAD, KU and L'Institut Agro Montpellier
Indah Waty Bong (F)*	Indonesia	University of Montpellier, France	UGM	PhD	Geography	Local Natural Resource Management and Autonomous Conservation Practices in Indonesia	1 Jan 2023	AF, SEARCA
<b>Ongoing (6)</b>								
Chaisiri Kitpaosong (M)*	Thailand	University of Montpellier, France	KU	PhD	Biotechnology	Furanic Acid F2 (FuFA-F2) from <i>Hevea brasiliensis</i> Latex: Toward a transition to an ecologically responsible production of bioactive molecules in a society that sustainably manages its natural resources	1 Jan 2022	AF, SEARCA
Marich Nur Maqsalina (F)*	Indonesia	University of Montpellier, France	IPB	PhD	Entomology	Integrated Pest Management Strategy Against Coffee Berry Borers Based on Their Dispersion Capacity in North Sumatra, Indonesia	15 Jan 2022	AF, SEARCA
Nguyen Van Hieu (M)*	Vietnam	University of Montpellier, France	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 Jan 2020	AF, UPM, SEARCA
Julia Ng Su Chen (F)*	Malaysia	CIRAD-Montpellier	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 Sep 2019	AF, UPM, SEARCA
Yao Tze Leong (M)*	Malaysia	Centre IRD de Montpellier, France	UPM	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 Sep 2019	AF, UPM, SEARCA



Name	Country	Host Institution	Home University	Degree	Major Field	Title of Thesis or Dissertation	Date Awarded	Funding Source
Nur Hidayahan um Hamid (F)**	Malaysia	Kasetsart University	UPM	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 ( <i>Clarias gariepinus</i> )	1 Aug 2017	SEARCA
<b>Completed (1)</b>								
Junaidi (M)*	Indonesia	French Agricultural Research Centre for International Development (CIRAD) Montpellier		PhD	Biological Sciences	Biochemical, Near-infra Red Spectroscopy Analysis of Reactive Oxygen Species-Scavenging Systems in Latex of <i>Hevea brasiliensis</i>	17 Jan 2019	AF, UPM, SEARCA

\*The scholars in this Annex are cross-listed in the Annex on SEARCA Project Scholars (Annex 3).

\*\*F - female, M - male

#### Annex 6. SEAMEO SEARCA Learning and Knowledge Events, FY 2022/2023

Title	Venue and Date	No. of Participants	Country	Activity Partner	Main Speaker or Presenter
<b>Regional (7)</b>					
Regional-Workshop on Halal Slaughtering and Certification	Putrajaya, Malaysia 23-25 Aug 2022	28	Cambodia Indonesia Malaysia Philippines Singapore Thailand	Universiti Putra Malaysia (UPM)	Prof. Dr. Awis Qurni bin Sazili, UPM; Dr. Ubedullah Kaka, UPM; Dr. Mohammad Razli bin Abd Razak, MAFI; Mr. Mohammad Khalis bin Mohammad Aroff, JAKIM; Dr. Pedcris Orencio, UPOU; Dr. Yusuf A. Sucol, UPLB; and Ms. Ma. Christina Corales, SEARCA
Southeast Asian Youth Fest	Los Baños, Laguna, Philippines and Zoom 22 Oct 2022	1,103 (FB-117; Zoom-934; Onsite-52)	Afghanistan Cambodia Canada India Indonesia Kenya Lao PDR Malaysia Morocco Myanmar Nepal Pakistan Philippines Puerto Rico Singapore Timor-Leste United Kingdom United States Vietnam	Kids Who Farm, PH, Association of Nutrition; SEARCA Scholars; University of the Philippines Los Baños-nstitute of Human Nutrition and Food; volunteer photographers	Dr. Chew Fook Tim
Southeast Asian Learning Framework on Inclusive, Integrated, and Innovative Public Policy Cycles for Family Farming (SEA LFPPC4FF)	Los Baños, Laguna, Philippines 7-11 Nov 2022	17	Cambodia Indonesia Lao PDR Philippines Thailand Timor-Leste Vietnam	FAO RAP Corporacion Procasur-Brazil	Dr. Paul Teng, International Pte Ltd, Nanyang Technological University; Dr. Julian Gonsalves, IIRR; Dr. Aileen V. Lapitan, UPLB; Dr. Luiz Claudio-Campos, Procasur-Brazil; Mr. Pierre Ferrand, FAO-RAP; Ms. Sara Hassan, UN FAO

Title	Venue and Date	No. of Participants	Country	Activity Partner	Main Speaker or Presenter
6th UC Summer School: Diversification of Crops, Mixed Cropping, and Risk Management in Smallholder Agriculture in the Context of Climate Change	Malang, Indonesia 13-27 Nov 2022	39	Indonesia Malaysia Philippines Thailand France Taiwan	Universitas Brawijaya, Indonesia	Dr. Didier Pillot, L'Institut Agro Montpellier; Dr. Claude Garcia, University of Bern, Switzerland; Dr. Alain Rival, CIRAD; Mr. Bruno Rapidel, Montpellier; Mr. Eric Penot, Montpellier; RPs from UB: Dr. Karuniawan, Puji Wicaksono, Dr. Irfan Mustafa, Prof. Dr. Ir. Nuhfil Hanani
Online Training-Workshop on Transformational Agricultural Innovation Systems for the New Future (TrAlnS)	SOLVE Platform (virtual) 16 Nov 2022 - 3 Feb 2023	17	Lao PDR Myanmar Philippines Thailand	International Union for Conservation of Nature (IUCN), FAO RAP	Dr. Virginia R. Cardenas, Technical Coordinator and Lead Faculty; Dr. Dindo M. Campilan, IUCN Asia Regional Office; Dr. Rasheed Sulaiman, Centre for Research on Innovation and Science Policy (CRISP); Mr. Pierre Ferrand, FAO RAP; Dr. Jose V. Camacho, Jr., UPLB; Mr. Jim Leandro Cano, Head Knowledge Management and Digital Solutions Nature Tech Innovation Group, Inc.; Mr. Shermon O. Cruz, Center for Engaged Foresight, Philippines
SEARCA Agri-Innovator Program	SOLVE Platform (virtual), 22 Nov 2022 - 28 Feb 2023	16	Myanmar Philippines Vietnam		Ms. Julieane Camille Lacsina, GoEdenPH; Mr. Carlo P. Valencia, Technical Coordinator; Asst. Prof. Gian Carlo de Jesus, CEM UPLB; Ms. Krishnia Pauline Ellis, Salin PH; Ms. Denise Haak, QAIROS; Mr. Artie Lopez, Brainsparks
International Ecotourism Travel Mart	Cavite, Philippines 29 Mar - 2 Apr 2023	200	Indonesia Philippines Timor-Leste Vietnam	International School of Sustainable Tourism (ISST)	Sec. Christina Garcia-Frasco, Philippine Department of Tourism; Sec. Jaime Bautista, Philippine Department of Transportation
<b>National (36)</b>					
Training for the Baseline Assessment for the Coconut Industry in the Province of Quezon	SEARCA 5-6 Jul 2022	16	Philippines	Office of the Provincial Agriculturist of Quezon Province, Office of the Municipal Agriculturist of Catanauan, Quezon	Ms. Blanquita R. Pantoja, UPLB
Workshop Series on the Establishment of the SEARCA Intellectual Property and Knowledge and Technology Transfer (SIPAKTT) Policies and Guidelines (Modules 1 to 10)	SEARCA and Zoom 12 Jul - Nov 2022	16	Philippines	Alliance of Tech Transfer Professionals of the Philippines (ATOP)	Atty. Christopher Cruz
1st Laguna Robot LEGOlympics 2022 Competition	SEARCA 15 Jul 2022	70	Philippines	Felta Multimedia Inc	Mylene Abiva, CEO, Felta Multimedia Inc
Training-Workshop on Vegetable Production for Busuanga Island, Palawan	Busuanga, Palawan, Philippines 19-21 Jul 2022	48	Philippines	Pilipinas Shell Foundation, Inc., Kansas State University, Regalo ng Kilit Foundation, DepEd	Mr. James Bruma, PSFI; Ms. Annalyn M. Solano, PSFI

Title	Venue and Date	No. of Participants	Country	Activity Partner	Main Speaker or Presenter
10th SEARCA-RUA Online Workshop on IQA Manual Development: Dissemination of SAR Findings and Identifying Ways Forward	Zoom 19 Jul 2022	26	Cambodia	Royal University of Agriculture	Dr. Rhea L. Gumasing, CPAf, UPLB
Robotics Learning Activity	SHARING Café, SEARCA 12 Aug 2022	21	Philippines	DepEd Laguna	Ms. Ma. Christina Corrales, SEARCA
Workshop on Theory-based Evaluation for the Program on Accelerating Farm School Establishment (PAFSE)	Los Baños, Laguna, Philippines 13 Sep 2022	16	Philippines	TESDA Central Office, DA-ATI DAR	Prof. Paul Ramirez, Project Leader; Dr. Rodmyr Datoon, Project Consultant
21st Philippine Robotics Olympiad - Competition	Quezon City, Philippines 22-23 Sep 2023	2,050	Philippines	Felta Multimedia Inc	Mylene Abiva, CEO, Felta Multimedia Inc
Seminar-Workshop on Developing an Internal Quality Management Manual for the Royal University of Agriculture	Phnom Penh, Cambodia 24-28 Oct 2022	10	Cambodia	Royal University of Agriculture (RUA)	Dr. Rhea L. Gumasing, CPAf, UPLB
LevelUP HEI AFAR Project: Cross-visit to HEIs in Thailand	Bangkok, Thailand 5-9 Dec 2022	21	Philippines	CHED, SUC-ACAP, KU	Kasetsart University Officials
Lambanog Stakeholders Consultation Workshop	Pagbilao, Quezon, Philippines 5 Dec 2022	21	Philippines	Office of the Provincial Agriculturist of Quezon Province; Philippine Coconut Authority Region IV	Ms. Blanquita R. Pantoja, UPLB
Educational SHARING Tour	SEARCA 6 Dec 2022	14	Philippines	ACTS Advanced Creative Thinkers (ACTS Foundation, Inc.)	Ms. Stella Faye Estrella, SEARCA
Training Course on Research Designs and Methods for Higher Education Institutions in the Philippines (Research4HEIs)	SEARCA 23-27 Jan 2023	21	Philippines	CHED, SUC-ACAP	Dr. Maria Ana T. Quimbo; Asst. Prof. Angelyn K. Mananghaya; Ms. Mi-Auree L. Bautista; Asst. Prof. Edrun R. Gayosa; Ms. Hazel M. Remolacio; Ms. Lysette C. Aguila; and Dr. Mark Oliver S. Llangco, all from UPLB
Dagatan Family Farm School One Day Learning Activity on Agri-robotics	SHARING Café, SEARCA 1 and 15 Feb 2023	45	Philippines		Ms. Stella Faye Estrella, SEARCA
Rice Straw Biogas Hub Visit to WP5 Experimental Site	Victoria, Laguna, Philippines 8 Feb 2023	11	Philippines	Straw Innovation, Aston University, Koolmill	Dr. Rex Demafelis, UPLB
Philippine Open Systems Agricultural Machinery Manufacturing Workshop on Conservation Agriculture No-till Implements and Tools	Negros Occidental, Philippines 13-16 Feb 2023	47	Philippines	KSU, CPSU, TUPV, USDA	Dr. Ted Kornecki

Title	Venue and Date	No. of Participants	Country	Activity Partner	Main Speaker or Presenter
Training-workshop on Developing Fundable Research Project Proposals for Higher Education Institutions in the Philippines (FundableProp4HEIs)	SEARCA 20-24 Feb 2023	24	Philippines	CHED, SUC-ACAP	Dr. Paul Teng, National Institute of Education (NIE) International Pte Ltd, Nanyang Technological University, Singapore; From UPLB: Dr. Rico Ancog; Prof. Wilfredo Carada; Prof. Nelson Vincent Querijero, Professor; Dr. Maria Kristina D. Alinsunurin; Dr. Miriam Daryl Carada; Dr. Rhea L. Gumasing; and Asst. Prof. Jaymee Cabangbang
11th SEARCA-RUA Online Workshop on IQA Manual Development	Zoom 27 Feb 2023	25	Cambodia	RUA	Dr. Rhea L. Gumasing, UPLB
Back-to-back Training Workshops on Roadmap Development and Marketing Strategies for Coconut	SEARCA 27 Feb - 3 Mar 2023	10	Philippines	Office of the Provincial Agriculturist of Quezon Province; Philippine Coconut Authority Region IV	Ms. Leilani M. Briosos-Mc Donough and Mr. Renen Szilardo C. De Guzman
Training cum Workshop Series for the Carbon Wise Rice based Farming: Batch1-Laguna Province	SEARCA 10-11 Mar 2023	31	Philippines	Newfields Consulting Ltd. (NFC)	Dr. Eero Nissila, New Fields; and Dr. Sanna Taskila, Macon
Food is Life Exemplified Planetary Health Diet (FLEx PHD) Design Thinking Workshop No. 1 to 3	Zoom, 11, 18, 25 Mar 2023	104	Philippines	NAST, PCAARRD	Ms. Joie Cruz
12th SEARCA-RUA Online Workshop on IQA Manual Development	Zoom 23 Mar 2023	25	Cambodia	RUA	Dr. Rhea L. Gumasing, UPLB
FLExPHD Mentoring Session for CSS Pirates Dietang Ina, Soxcalories, Food Fam, PinPin	Zoom 27-30 Mar 2023	38	Philippines	NAST, PCAARRD	Ms. Jesselle Solivas-Laranas; Dr. Paul Jersey G. Leron
Dagatan Family Farm School Agriculture Business Plan Presentation	SEARCA 31 Mar 2023	40	Philippines		Dr. Glenn Gregorio, SEARCA
Food is Life Exemplified FLExPHD: A Mobile App Development Competition for Planetary Health Diet Mentoring Session for FoodFAM; Food GURU; BINHI; Soxcalories	Zoom 3-4 Apr 2023	18	Philippines	NAST, PCAARRD	Mr. TJ Monserrat; Dr. Vladimer Kobayashi; Mr. Ralph Vincent Regalado
Back-to-back Training Workshops on Roadmap Development and Marketing Strategies for Calamansi	SEARCA 11-14 Apr 2023	12	Philippines	Office of the Provincial Agriculturist of Oriental Mindoro	Ms. Leilani M. Briosos-Mc Donough; Mr. Renen Szilardo C. De Guzman; and Ms. Caroline Grace M. Pedragosa
Training on Sustainable Food Production for Schools and Communities in Busuanga Island	Coron, Palawan, Philippines 9-11 May 2023	33	Philippines	Department of Education - Division of Palawan	Mr. Villamor A. Ladia, UPLB
Seminar-Workshop on Industry Situationer and Prospects for the Coconut Industry and Stakeholders Consultation	Lucena, Quezon Province, Philippines 16-17 May 2023	40	Philippines	Office of the Provincial Agriculturist of Quezon Province; Philippine Coconut Authority Region IV	Ms. Leilani M. Briosos-Mc Donough
Seminar-Workshop on Industry Situationer and Prospects for the Calamansi Industry and Stakeholders Consultation	Oriental Mindoro, Philippines 30 May - 1 Jun 2023	30	Philippines	Office of the Provincial Agriculturist of Oriental Mindoro	Ms. Caroline Grace M. Pedragosa



Title	Venue and Date	No. of Participants	Country	Activity Partner	Main Speaker or Presenter
Technical Training on Edible Landscaping for the Establishment and Enhancement of Agricultural Technology Parks (ATPs) and Mini-ATPs in Cambodia	Siem, Reap, Cambodia 22-25 May 2023	21	Cambodia	Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN)	Mr. Bryan V. Apacionado, UPLB; Dr. Nur Azura binti Adam, SEARCA
Food is Life Exemplified Planetary Health Diet (FLEx PHD) Low-Fidelity Hackathon	Zoom 13 May 2023	61	Philippines	NAST, PCAARRD	Ms. Joie Cruz, Limitless Labs
Training-Workshop on Developing an Internal Quality Assurance (IQA) System for the Royal University of Agriculture (RUA) Project	Kampot Province, Cambodia 22-25 May 2023	24	Cambodia	RUA	Dr. Rhea L. Gumasing, UPLB
Food is Life Exemplified Planetary Health Diet (FLEx PHD) High-Fidelity Hackathon	Zoom 17 Jun 2023	61	Philippines	NAST, PCAARRD	Ms. Joie Cruz, Limitless Labs
Workshop on the Benchmarking Agriculture for Research and Development (R4D) Management System with Selected Asian Countries Benchmarking Template	Quezon City, Philippines 26-Jun-23	12	Philippines	DA-BAR	Dr. Merlyne M. Paunlagui, Study Leader; Ms. Stella Faye B. Estrella, all of SEARCA
Food is Life Exemplified Planetary Health Diet (FLEx PHD) Grand Finals	SEARCA, and FB Live, 28 Jun 2023	85 onsite, 7,400 online	Philippines	NAST, PCAARRD	Ms. Joie Cruz, Limitless Labs; Dr. Jaime Montoya, NAST; Dr. Eufemio Rasco, NAST; Dr. Ramon Lorenzo Ruiz Guinto, St. Luke's Medical Center; Ms. Juana Manahan- Yupangco, Mesa ni Misis; Dr. Ernesto Brown, DOST- PCAARRD; Dr. Glenn Gregorio and Atty. Eric Reynoso, SEARCA
Biotech Outreach 2023: Current State Opportunities for Biotechnology in International Trade and Technology	Nueva Ecija, Philippines 30 Jun 2023	574 Hybrid	Philippines	United States Department of Agriculture (USDA)	Mr. Panfilo De Guzman; Dr. Rey Ordonio; Mr. Agus Heri Setyo Wahyudi; Dr. Keitaro Kato

#### Annex 7. SEAMEO SEARCA Online Learning and Virtual Engagements (SOLVE) Webinar Series and Agriculture and Development Seminar Series FY 2022/2023

Date	Topic	Speaker/s	No. of Attendees
<b>SEARCA Online Learning and Virtual Engagements (SOLVE) (3)</b>			
19 Oct 2022	SOLVE Unleashing Untapped Opportunities of Agrifood Tourism	Mr. Antonio Lopez de Avila, Coordinator, Tourism for Rural Development Programme, United Nations World Tourism Organization, Riyadh, Saudi Arabia Mr. Keneth de Gracia, Tourism Operations Officer II, Department of Tourism, Region IV-A, Philippines Dr. Siti Fatimahwati Pehin Dato Musa, Assistant Professor, School of Business and Economics, Universiti Brunei Darussalam	Total: 102 (73, FB; 29, Zoom) (Cambodia, Indonesia, Philippines, Thailand, Timor-Leste, Vietnam)

22 Oct 2022	Southeast Asian Youth Fest	<p>Keynote 1: Dr. Chew Fook Tim, Assoc. Prof., NUS; and Governing Board Member, SEARCA</p> <p>Keynote 2: Prof. Dr. Khin Mar Cho, International Professor of Sustainable Agriculture and Global Systems, Cornell University</p> <p>Parallel Session A: Ms. Chrissa Borja, Regional Manager for Sustainable Investment, Grow Asia</p> <p>Parallel Session B: Dr. Jesus Fernandez, Deputy Director for Program, SEAMEO RECFON</p> <p>Parallel Session C: Mr. Jessie Varquez, Executive Director, Ugnayang Pang-Aghamtao, Inc. (UGAT/Anthropological Association of the Philippines)</p> <p>Parallel Session D: Ms. Juca Laccina, President and CEO, GoEden Philippines</p>	Total: 1,051 (117, FB; 934, Zoom) (Afghanistan, Cambodia, Canada, India, Indonesia, Kenya, Lao PDR, Malaysia, Morocco, Myanmar, Nepal, Pakistan, Philippines, Puerto Rico, Singapore, Timor-Leste, United Kingdom, USA, Vietnam)
8 Feb 2023	SOLVE Climate Impacts on Agriculture: An Introduction to the Philippines Country Climate and Development Report	Ms. Anuja Kar, Senior Agriculture Economist, Agriculture and Food Global Practice, World Bank	Total: 159 (93, FB; 66, Zoom) (Indonesia, Malaysia, Philippines)
<b>Agriculture and Development Seminar Series (2)</b>			
16 Feb 2023	A Presentation of the Philippines Country Climate and Development Report of the World Bank	<p>PRESENTERS: Dr. Stefano Pagiola, World Bank Senior Environmental Economist Dr. Souleymane Coulibaly, World Bank Lead Economist and Program Leader for Equitable Growth, Finance and Institutions Practice Group for Brunei, Malaysia, Philippines, and Thailand</p> <p>PANEL MODERATOR: Dr. Rico C. Ancog, Dean, School of Environmental Science and Management, University of the Philippines Los Baños</p> <p>PANELISTS: Dr. Patricia Ann J. Sanchez, Professor, SESAM, UPLB Dr. Rodel D. Lasco, Executive Director, Oscar M. Lopez Center for Climate Change Adaptation and Disaster Risk Management Foundation, Inc. Dr. Rex Victor O. Cruz, Former Chancellor, UPLB Professor Emeritus, UPLB College of Forestry and Natural Resources, and SEARCA Senior Fellow</p>	Total: 214 (Onsite: 91; and Online: 123 - 71, Zoom; 49, FB)
25 Apr 2023	Leveraging the Role of Family Farming Towards More Productive and Resilient Food Systems in the Philippines	Atty. Francis Pangilinan, Former Senator, Republic of the Philippines	Total: 416 (Onsite: 116; Online: 300, FB)

#### Annex 8. SEAMEO SEARCA Capacity Building Projects to Higher Education Institutions, FY 2022/2023

Project Title	Duration	Location of Implementation	Partner/s
<b>Joint Scholarships (14)</b>			
Scholarship Programme I	AY 2018-2019 to AY- 2020-2021	Indonesia, Malaysia, Philippines, and Thailand	German Academic Exchange Service (DAAD)
In-Country/In-Region Scholarship Programme II	AY 2021-2022 to AY 2023-2024	Malaysia, Philippines, and Thailand	DAAD
Agropolis Fondation (AF) - SEARCA Joint Scholarship and Joint Thesis Scholarship	AY 2021-2022 to AY 2026-2027	Indonesia, Thailand, and France	AF
Agropolis Fondation (AF) - Universiti Putra Malaysia (UPM) - SEARCA Joint Scholarship	28 May 2018 to 27 May 2023	Indonesia, Malaysia, Philippines, and France	UPM
Joint Bulacan State University (BulSU) - SEARCA PhD Scholarship Program	AY 2020-2021 to AY 2023-2024	Philippines	BulSU
Development of Innovative and Sustainable Aquafeed Using Local Agro-Residual Resources	AY 2021-2022 to AY 2022-2023	Malaysia	Universiti Sains Malaysia (USM) and Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN)
Malaysian Agricultural Research and Development Institute (MARDI) -SEARCA Joint Graduate Scholarship	AY 2020-2023 to AY 2024-2025	Philippines, Thailand, and Malaysia	MARDI
National Taiwan University (NTU)-SEARCA Joint Scholarship	AY 2020-2021 to AY 2022-2023	Philippines and Taiwan	National Taiwan University Global Agriculture Technology and Genomic Science

Project Title	Duration	Location of Implementation	Partner/s
Nagoya University (NU)-SEARCA Joint PhD Scholarship in the Fields of Agriculture and International Development for Philippine Nationals	AY 2020-2021 to AY 2022-2023	Philippines and Japan	NU, Japan
Tokyo NODAI-SEARCA Scholarship for Dissertation Doctorate Program	AY 2020-2021 to AY 2022-2023	Philippines and Japan	Tokyo University of Agriculture, Japan
International Service Provider for Local and International Graduate Scholarship Programs in Livestock Research and Biotechnology for the Philippine Carabao Center (PCC)	Jun 2014 - Dec 2023	Philippines	PCC
SU-SEARCA Joint Graduate Scholarship in the Fields of Agricultural Biotechnology, Aquaculture, Food Science, and International Development for Southeast Asian Countries	AY 2020-2021 to AY 2023-2024	Philippines and South Korea	Sejong University, South Korea
UPM-SEARCA Joint Graduate Scholarship	AY 2020-2021 to AY 2024-2025	Philippines and Malaysia	UPM
CE SAIN-SEARCA Joint Graduate Scholarship	Jan 2022 - Dec 2024	Philippines and Thailand	CE SAIN
<b>Institutional Development Assistance (2)</b>			
Leveling Up Philippine Higher Education Institutions in Agriculture, Fisheries, and Natural Resources (LevelUPHEI AFAR)	Nov 2020 - Dec 2023	Philippines and SEA	Commission on Higher Education (CHED) under the International Continuing Professional Education (ICPE) Program
Development of an Internal Quality Assurance System (IQA) for the Royal University of Agriculture (RUA)	2020-2024	RUA. Phnom Penh, Cambodia (onsite Activities); SEARCA for Online Activities	RUA
<b>Others (1)</b>			
Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC)	CY 2022	Philippines	UC member universities

\*AY - academic year, CY - calendar year

#### Annex 9. Conferences, Seminars, Workshops, and Training Courses Organized or Supported by SEAMEO SEARCA for Scholars, FY 2022/2023

Title of Activity	Venue	Date	Number of Participating Scholars
2022 Basic English Course for SEARCA's Incoming Scholars	SEARCA and Zoom	5-13 Jul, 2022 (Zoom) 21 Jul-2 Aug 2022 (SEARCA)	16
Online Training on Scientific Writing	Zoom	15,18,22,25 Aug and 5 Sep 2022	26
Special Graduate Seminar: Amelioration of Water Stress by Potassium Fertilizer under High Temperatures on Oil Palm Seedlings Growth, Carbon Assimilation, and Biochemical Changes	Zoom	28 Oct 2022	31
Workshop on Pathway Construction and Network Analysis	Institute of System Biology, Universiti Kebangsaan Malaysia	22-24 Nov 2022	1
GSID Conversations: Am I Crazy: Understanding Mental Health Problems and Its Prevention	Zoom	16 Dec 2022	46
Online Training on Presenting Research	Zoom	16, 19, 23, 26 Jan and 2 Feb 2023	28
Training Workshop on Response Surface Methodology (RSM) Clinic 5.0: Tips and Tricks for Process Optimization	Universiti Putra Malaysia	31 Jan 2023	2
2023 Scholars Conference: Advancing Agricultural Research for Improved Food Security	Zoom	14-15 Mar 2023	28

Title of Activity	Venue	Date	Number of Participating Scholars
GSID Conversations: From Campus to Career: The Journey of a SEARCA Scholar	Zoom	28 Apr 2023	36
Special Graduate Seminar: Physicochemical Properties of Purple Passion Fruit ( <i>Passiflora edulis</i> Sims) During Growth and Development	Zoom	26 May 2023	35

#### Annex 10. University Consortium Grants, FY 2022/2024

Name	Country/Home University	Specialization/ Degree Program	Thesis/Project Title or Purpose of Travel	Date Awarded to Date Completed
<b>Student Grant for Research Activities (4)</b>				
<b>New (2)</b>				
Yudhi Sudarto (M)	Indonesia/IPB	MS Animal Production Science and Technology	Biogas Production from Tofu Liquid Waste with Cow Manure Mixture	1 Jul 2022
Nadia Yaseen Gafar Osman (F)	Malaysia/UPM	PhD Plant Biotechnology	Screening, Identification and Efficacy Evaluation of Antagonistic Bacteria for Biocontrol of Purple Witchweed, <i>Striga hermonthica</i>	11 Oct 2022
<b>Completed (2)</b>				
Edmark P. Bulaong (M)	Philippines/ CLSU	MS Environmental Management	Calculating Local Emissions for Mitigation Measures Through Greenhouse Gas Inventory	11 Oct 2022 - Dec 2022
Jemimah C. Banganan (F)	Philippines/ UPLB	MS Plant Genetics and Conservation Management	Association of Bud Morphological Characters and Smut ( <i>Sporisorium scitamineum</i> ) Resistance Traits of the Philippine Sugarcane ( <i>Saccharum officinarum</i> L.) Collection Using Molecular Markers	11 Oct 2022 - Dec 2022
<b>Student Thesis Grant (1)</b>				
<b>Completed (1)</b>				
Nadine B. Coronado (F)	Philippines/ UPLB	MS Plant Genetics and Conservation Management	Genotypic, Agro-Morphological, and Phytochemical Characteristics of Selected Turmeric ( <i>Curcuma longa</i> L.) Germplasm in the Philippines	11 Oct 2022 - Dec 2022
<b>Support for Research or Publication (11)</b>				
<b>New (1)</b>				
Yolanda Angeles (F)	Philippines/ UPLB	PhD Plant Pathology	Molecular Surveillance and Identification of Begomoviruses Infecting Yard Long Bean [ <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (L.) Verdc.] in the Ilocos Region, Philippines	25 Apr 2023
<b>Ongoing (6)</b>				
Siti Aishah Binti Baharuddin (F)	Malaysia/UPM	PhD Food Engineering	Development of Hydrocolloid Based Nutraceutical Using <i>Pluchea indica</i> (L.) Leaves Extract	25 Oct 2021
Nor Atikah Husna Ahmad Nasir (F)	Malaysia/UPM	PhD Halal Product Development	Development of Gummy Candy from <i>Caulerpa lentillifera</i> Supplemented with <i>Lactobacillus acidophilus</i>	24 Feb 2022
Richelle Marie Legaspi (F)	Philippines/ UPLB	MS Environmental Science	Economic Valuation of Improved Water Yield for Irrigation through Catchment Management in Sta. Cruz River Watershed, Laguna, Philippines	28 Jun 2022
Roanne R. Gardoce (F)	Philippines/ UPLB	PhD Plant Breeding	Breeding Fusarium Wilt-resistant Bananas Through Genomics	22 Apr 2022
Nurul Ain Hamdan	Malaysia/UPM	PhD Sustainable Natural Resource Management	Protected Area Resilient to Climate Change in Gunung Mulu National Park, a Totally Protected Area (TPA) in Sarawak	8 Oct 2020
Abdul Malik Bin Abdul Razak (M)	Malaysia/UPM	MS Microbial Biotechnology	Characterization of Carotenoids from <i>Pantoea ananatis</i> and Its Potential as Biological Control Agent Against <i>Burkholderia glumae</i>	11 Jun 2021



Name	Country/Home University	Specialization/ Degree Program	Thesis/Project Title or Purpose of Travel	Date Awarded to Date Completed
<b>Completed (4)</b>				
Muhammad Zalkifal (M)	Pakistan/IPB	MS Microbiology	Production, Purification, and Characterization of Laccase from <i>Trametes Polyzona</i> h18 for Polyaromatic Hydrocarbons Degradation	8 Oct 2021 - Jul 2022
Salim Mohamed Suliman Edris (M)	Sudan/IPB	MS Natural Resources and Environmental Management	A Dynamic Model to Uphold Rice Self-sufficiency Efforts, Case Study; Karawang Regency, West Java Province	20 Aug 2021 - Aug 2022
Lau Su Ee (F)	Malaysia/UPM	PhD Plant Biotechnology	Drought Stress Induces Morpho-Physiological, Biochemical, Transcriptome and Proteome Changes in Banana	22 Apr 2022 - Jul 2023
Elemosho Ridwan (M)	Nigeria/IPB	MS Biotechnology	Extracellular Overexpression of T1.2 Lipase in <i>Bacillus subtilis</i> for Biodiesel Production	30 Sep 2020 - Jul 2022
<b>Support for Thesis Production (15)</b>				
<b>Ongoing (7)</b>				
Nurliyana Binti Nordin (F)	Malaysia/UPM	MS Food Security and Climate Change	Effects of Different Types and Concentrations of Wastewater on Seed Germination and Seedling Performance of Two Rice ( <i>Oryza sativa</i> L.) Varieties	3 Aug 2021
Hapsah (F)	Indonesia/UB	MS Plant Breeding and Biotechnology	Secondary Metabolites Induction of Stevioside and Rebaudioside in <i>Stevia rebaudiana</i> Bertoni Using In Vitro Media Modification	1 Oct 2019
Siti Shazana binti Mohd Ali Raini (F)	Malaysia/UPM	PhD Soil Science	Application of Basalt in Combination with Biochar to Alleviate Soil Acidity A1 and Fe Toxicity for Growing Rice on an Acid Sulfate Soil	1 Oct 2019
Sesmita Sari (F)	Indonesia/UB	MS Agro-Industrial Technology	Analysis of Consumer Preference and Factor that Influence Marketing Mix Using Structural Equation Model (SEM)-Case Study: Meatball in Malang City	4 Nov 2019
Nicci Rosietess E. Madarcos (F)	Philippines/UPLB	MS Botany/Phycology	Taxonomic Assessment of Macroalgae from the Intertidals of Selected Islands in Antique, Philippines Using Integrative Approach	24 Feb 2020
Siti Aisyah Ruslan (F)	Malaysia/UPM	MS Agricultural Technology	Development of Geospatial Model for Elucidation of Metisa Plana Landscape Ecology in Malaysia's Microclimate and Prediction of Its Prevalence	15 Oct 2018
Mardhati Hazirah Hassan (F)	Malaysia/UPM	MS Land Resource Management	Selected Coated Urea Assessment on Nitrogen-Use Efficiency (NUE) and Growth of Oil Palm Seedlings	15 Oct 2018
<b>Completed (8)</b>				
Stashia Eleaness Rosland Abel (F)	Malaysia/UPM	PhD Process Food Engineering	Formulation of Fiber Drink from Gum Arabic Powder	15 Jan 2020 - Apr 2023
Maimunah binti Mohd Ali (F)	Malaysia/UPM	PhD Agricultural Process Engineering	Artificial Intelligence System for Pineapple Quality Evaluation Using Infrared Thermal Imaging	25 Oct 2021 - Oct 2022
Alexandra Quek (F)	Malaysia/UPM	PhD Organic Chemistry	Characterization of Enzyme Inhibitors from <i>Melicope glabra</i> and <i>Melicope latifolia</i> (Rutaceae): In vitro, in silico, and in vivo approaches for Type 2 diabetes therapy	8 Oct 2021 - Jan 2023
Shinta Diah Puspaningtyas (F)	Indonesia/UB	MS Agro-Industrial Technology	Strategy Analysis for Overcoming Barriers of Integration Halal Assurance System (HAS) and Quality Management System (AMS)	10 Dec 2021 - Jul 2022
Novita Ainur Rohma (F)	Indonesia/UB	MS Agro-Industrial Technology	Comparison of Chemical and Biological Pre-treatment of Oil Palm Empty Fruit Bunches towards Biogas and Bioethanol Production	10 Dec 2021 - Aug 2022
Christine Jamie Anak Vincent Eddy (F)	Malaysia/UPM	PhD Food Engineering	Enhancing Separation and Recovery of Palm Mesocarp and Nuts Using the Batch Drupe Dehusker Machine	21 Feb 2022 - Oct 2022

Name	Country/Home University	Specialization/ Degree Program	Thesis/Project Title or Purpose of Travel	Date Awarded to Date Completed
Farahana Nabilah Binti Zainal A'bidin (F)	Malaysia/UPM	MS Agricultural Process Engineering	Development and Performance Evaluation of a Banana Peeling Machine for Use in Small Scale Industry	8 Oct 2020 - Sep 2023
Pern Yu Cong (M)	Malaysia/UPM	MS Forestry	Cross-species Amplification of Aquilaria Microsatellites across Thirteen Endangered Agarwood-producing Species of the Tribe Aquilariaceae from the Indomalaysia Region	1 Oct 2019 - Aug 2022
<b>Student Travel (5)</b>				
<b>New (3)</b>				
Ahmad Syafik Suraidi bin Sulaiman (M)	UPM-Kaohsiung, Taiwan	PhD Soil and Water Engineering	10 <sup>th</sup> International Symposium on Machinery and Mechatronics for Agriculture and Biosystems Engineering (ISMAB 2022)	15-17 Nov 2022
Jeric Castro (M)	NTU, Taiwan	MS Plant Pathology	2023 NTU Plus Academy Summer + Program on Biodiversity, Agriculture, and Culture of Taiwan (BACT), Taipei City, Taiwan	26 Jun - 25 Jul 2023
Thippawan Korsrisakul (F)	NTU, Taiwan	MS Plant Pathology	2023 NTU Plus Academy Summer + Program on Biodiversity, Agriculture, and Culture of Taiwan (BACT), Taipei City, Taiwan	26 Jun - 25 Jul 2023
<b>Ongoing (1)</b>				
Siwaporn Hamsart (F)	KU-Tokyo NODAI	Genetics	Travel grant for research to Tokyo NODAI	16 May - 15 Sep 2023
<b>Completed (1)</b>				
Billy Akhbar Nugraha (M)	Indonesia/UB-Tokyo NODAI	MS Agro-Industrial Engineering	Student travel grant for research in Tokyo NODAI: Implementation of Data Envelopment Analysis (DEA) in Benchmarking Sustainable Supply Chain Management (SSCM) of Potato Chips Industry	Apr 2022 - Dec 2022
<b>Faculty Travel (27)</b>				
<b>New (2)</b>				
Ahmad Faizal Abdull Razis (M)	UPM-Tokyo NODAI	Food Safety Toxicology	Travel grant for research to Tokyo NODAI	3-13 Jul 2023
Kornsorn Srikulnath (M)	KU-UGM	Animal Cytogenetics; Comparative Genomics; Wildlife Genomics	Visiting lecturer grant for teaching purposes	23 Jul - 5 Aug 2023
<b>Ongoing (1)</b>				
Leong Sui Sien (F)	UPM-UPLB	Molecular Biology (Biotechnology)	Travel grant for research in UPLB	27 Apr 2020 - 6 May 2020
<b>Completed (24)</b>				
Endy Triyannanto (M)	UGM-UPM	Food Science	Travel grant for conference/Regional Training-Workshop on Halal Slaughtering and Certification	23-25 Aug 2022
Jane Camille A. Crisostomo (F)	CLSU-UPM	Food Science		
Julakorn Panatuk (M)	NTU-UPM	Meat Science/Ruminant Production		
Manuel D. Gacutan, Jr. (M)	VSU-UPM	Animal Science		
Oliver D. Abanto (M)	UPLB-UPM	Animal Science		
Sasikan Katemala (F)	KU-UPM	Food standard systems/ Meat Quality		
Supratikno (M)	IPB-UPM	Animal welfare and behavior/Halal Science		
Hasfalina Che Man (F)	UPM-UB	Bio-environmental Engineering	Travel Grant for Teaching Purposes to Universitas Brawijaya (UB), Indonesia	29 Oct - 6 Nov 2022
Sugeng Riyanto (M)	UB-UPM	Natural Products Chemistry	Travel Grant for Research to Universiti Putra Malaysia (UPM), Malaysia	15 Oct - 30 Nov 2022

Name	Country/Home University	Specialization/ Degree Program	Thesis/Project Title or Purpose of Travel	Date Awarded to Date Completed
Elpidio M. Agbisit, Jr. (M)	UPLB-UGM	Animal Science	10 <sup>th</sup> Southeast Asia Network of Animal Science (SEANAS) Meeting	9-10 Nov 2022
Rommel C. Sulabo (M)	UPLB-UGM	Poultry Nutrition		
Henny Akit (M)	UPM-UGM	Monogastric Animal Nutrition		
Nur Azura Adam (F)	UPM-UGM	Insect Taxonomy and Systematics, Biodiversity and Pest Management		
Prapakorn Tarachai (M)	MJU-UGM	Poultry Nutrition; Poultry Production and Management		
Weerapon Thongma (M)	MJU-UGM	Ecotourism Management		
Sutisa Majarune (F)	KU-UGM	Animal Reproduction; Animal Physiology and Livestock Production		
Phoompong Boonsaen (M)	KU-UGM	Ruminant Nutrition; Beef Cattle Production	35 <sup>th</sup> University Consortium (UC) Executive Board Meeting	25-26 Nov 2022
Roberto P. Cereno (M)	UPLB-UB	Ecotourism Management; Conservation Education		
Fernando O. Paras, Jr. (M)	UPLB-UB	Energy Engineering	Visiting lecturer program for teaching purposes grant to Vietnam National University of Agriculture (VNUA) and Tra Vinh University (TVU)	22-29 Dec 2022
Budi Guntoro (M)	UGM	Animal Science		
Sheryl A. Yap (F)	UPLB-UGM	Entomology (Insect Taxonomy)	Faculty travel grant for research to UGM	23 - 30 Jan 2023
Chatchawan Jantasuriyarat (M)	KU-Tokyo NODAI	Agricultural Biotechnology; Plant Pathology; Plant Molecular Genetics	Faculty travel grant for research to Tokyo University of Agriculture	5 - 14 Feb 2023
Mark Gil A. Vega (M)	Philippines/ VSU	Science Education	Faculty travel grant for conference to attend the 9 <sup>th</sup> Asian Conference on Education and International Development (ACEID2023); presented paper on "Healthcare Practices of Yapayao-Isneg Tribe: An Ethnographic Study in the Contemporary World"	27-30 Mar 2023
Agham C. Cuevas (M)	Philippines/ UPLB	Institutional Economics, Public Economics, and Macroeconomic Theory	Travel grant for conference to attend the Dialogue on Innovative Higher Education Strategies (DIES) International Deans' Course Southeast Asia 2022/2023	26 Jun 2022 - 11 Feb 2023
<b>Seed Fund for Collaborative Research (17)</b>				
<b>New (5)</b>				
Nor Nadiyah Abdul Karim Shah (F)	UPM-UB	Food Engineering	Oligosaccharide Extraction from Centralized-Airline Kitchen Waste (Fruits and Vegetables) via Pulsed Electric Field Technology	25 Apr 2023
Leonard Dharmawan (M)	IPB-UB	Community Development	The Challenges of Implementing Social Forestry Policies in Malang Regency, East Java Province, Indonesia	25 Apr 2023
Shahrul Razid Sarbini (M)	UPM-UGM-UPLB	Food Biotechnology	Prebiotic Assessment of Midin ( <i>Stenochlaena palustris</i> ), An Indigenous and Mucilaginous Edible Fern	1 Mar 2022 - 30 Apr 2023
Mohd Mokrish Md Ajat (M)	UPM-Tokyo NODAI	Biochemistry	Exploring the Potential Use of Heterologous Platelet Rich Plasma Lysate Derived from Slaughterhouse Animals Loaded into Hydrogel for Wound Healing	1 Nov 2022 - 31 Oct 2023
Katherine DA. Bautista (F)	CLSU-MJU	Environmental Science; Renewable Energy	Corn Juice as Non-food Feedstock for Bioethanol Production	1 Nov 2022 - 31 Oct 2023

Name	Country/Home University	Specialization/ Degree Program	Thesis/Project Title or Purpose of Travel	Date Awarded to Date Completed
<b>Ongoing (7)</b>				
Norhashila Hashim (F)	UPM-UB	Agricultural Process Engineering	Development and Application of Stingless Bee Honey as Bio-based Active Film Packaging for Food and Nutrition Security Strategy	1 Nov 2021 - 30 Oct 2022
Aduwati Sali (F)	UPM-IPB	Mobile and Satellite Communications	NAPD: Networked ASEAN Peatland Data	1 Mar 2022 - 28 Feb 2023
Maria Victoria O. Espaldon (F)	UPLB-UGM	Geography	Comparative Study of Climate Change Adaptation in the Philippines and Indonesia	1 Apr 2022 - 31 Mar 2023
Alifdalino Sulaiman (M)	UPM-KU	Chemical and Materials Engineering (Food Engineering)	Effect of Nanoemulsion Droplet Size on Foaming Structure and Foaming Properties of Dairy Milk	1 Aug 2022 - 31 Jul 2023
Latifah Abd Manaf (F)	UPM-UGM	Solid Waste, Conservation of Biology and Ecology	The Application of Multi-criteria Decision-making in Selecting the Best Food Waste Management Method	1 Jun 2021 - 31 May 2022 (extended until 31 Dec 2023)
Muhammad Heikal bin Ismail (M)	UPM-UGM	Food and Agricultural Waste Conservation and Management	Investigating the Effect of Food and Agricultural Waste on the Quality of Biogas and Bio-Fertilizer	1 Jan - 31 Dec 2020 (extended until 31 Jul 2023)
Mami Irie (F)	Tokyo NODAI-UPM	Environmental Science	Food Waste Analysis by Using Fourth Industrial Revolution Tools	Nov 2020 - Oct 2021 (extended until Mar 2024)
<b>Completed (5)</b>				
Beata Ratnawati (F)	IPB-UB and Sumbawa University of Technology	Solid Waste; Waste and Water Treatment	Comparative of Greenhouse Gases Effects from Agricultural Activities in Bogor and Sumbawa	1 Jun 2022 - 31 May 2023
Jittakon Ramanpong (M)	NTU-KU	Natural Resource Conservation; Park Management	Restorative Effects of Viewing Different Stand Density: An evidence from Virtual Reality Plantation Forest	1 Jul 2022 - 30 Jun 2023
Muhammad Hazwan Hamzah (M)	UPM-UB	Agricultural Process Engineering	Quality Assessment of Oil Extracted from Dabai ( <i>Canarium odontophyllum</i> ), The exotic fruit of Borneo through ohmic heated hydro distillation	1 Jun 2022 - 31 May 2023
Ahmad Faizal Abdull Razis (M)	UPM-UB	Food Safety Toxicology	Authenticating Chicken Breeds Based on Fatty Acid Profiles, Bioactive Components and Whole Genome Sequencing	1 Jul 2020 - Nov 2022
Siti Mazlina binti Mustapa Kamal (F)	UPM-UB	Food Process Engineering	Evaluation of Antioxidant Activity of Phenolic Compounds Extracts from Piper Betel Leaves Using Pressurized Hot Water (PHW) Treatment	1 Jul 2020 - Nov 2022

\*F - female, M - male

\*\*IPB - Institut Pertanian Bogor, UPM - Universiti Putra Malaysia, CLSU - Central Luzon State University, UPLB - University of the Philippines Los Baños, UB - Universitas Brawijaya, NTU - National Taiwan University, KU - Kasetsart University, Tokyo NODAI - Tokyo University of Agriculture (NODAI), UGM - Universitas Gadjah Mada, VSU - Visayas State University, MJU - Maejo University

#### Annex 11. SEAMEO SEARCA Research and Innovation Projects, FY 2022/2023

Project Title	Project Duration	Location of Implementation	Partner/s
<b>Research (9)</b>			
Agricultural Transformation and Market Integration in the ASEAN Region: Responding to Food Security and Inclusiveness	15 Feb 2017- 30 Jun 2022; extended until 30 Sep 2022	Cambodia Lao PDR Myanmar Vietnam Philippines	International Food Policy Research Institute (IFPRI)
Project SAYA: Strengthening Yield of <i>Allium cepa</i> L. (onion) in the Philippines	Apr 2021 - Jul 2022	Philippines	Jollibee Group Foundation (JGF)/SEARCA
A series of activities in the framework of the UN Decade of Family Farming (Activity 2)	25 Oct 2021 - 1 Dec 2022 (No-cost extension: 31 Dec 2022)	Cambodia Indonesia Lao PDR Philippines Thailand	Food and Agriculture Organization Regional Office for Asia and the Pacific (FAORAP); AsiaDHRRA



Project Title	Project Duration	Location of Implementation	Partner/s
Documenting Linkages between Farmers and the Tourism Industry in Asia and the Pacific	22 Oct 2021 - 31 Mar 2022 (extended until 30 Sep 2022)	Philippines Lao PDR Thailand Sri Lanka Fiji India	FAO-RAP
Identify Opportunities and Developing a Guiding Framework to address Humanitarian-Development-Peace (HDP) Nexus in Hand-in-Hand Initiative in Asia and the Pacific	14 Dec 2021 - 30 Jun 2022 (extended until 30 Nov 2022)	Asia-Pacific	FAO-RAP
Coping Strategies of Urban Households to Ensure Food Security During COVID-19	Jul 2022- Jun 2023	Philippines Indonesia	SEAMEO RECFON
School Edible Landscaping for Entrepreneurship (SEL4E) Project in Rizal Province	1 Oct 2022 - 30 Sep 2024	Philippines	Synergy Group Operations, Inc.; PSFI; DepEd Rizal, PG Rizal
Development of Coconut Industry Growth Areas in the Province of Quezon	Nov 2022 - Jun 2025	Philippines	Provincial Government of Quezon Philippine Coconut Authority (PCA)
Benchmarking of the Agricultural Research for Development (R4D) Management System with Selected Asian Countries	Apr 2023 - Jan2024	Philippines	DA-Bureau of Agricultural Research
<b>Professional Technical Service (10)</b>			
Formulation of the National Agriculture and Fisheries Modernization and Industrialization Plan (NAFMIP) 2020-2025	Sep 2020 - Jul 2022	Philippines	Asian Development Bank (ADB)
Farmer Talk: Development of Information, Education, and Communication Materials Highlighting Biotech Contributions to Farmers' Success	15 Dec 2021 - 31 Mar 2022; (extended until Jun 2023)	Philippines Indonesia Vietnam	CropLife Asia (CLA)
Know The Science: Strengthening Biotech Links (KTS Project)	Mar 2022 - Feb 2023	Philippines	International Service for the Acquisition of Agri-biotech Applications (ISAAA)
Establishment of SEARCA Intellectual Property and Knowledge and Technology Transfer (SIPAKTT) Policy and Guidelines	May 2022- Oct 2022	SEARCA	Alliance of Tech Transfer Professionals of the Philippines (AToP)
Evaluation of the Program on Accelerating Farm School Establishment (PAFSE)	Jul 2022 - Dec 2022	Philippines	Technical Education and Skills Development Authority (TESDA)
Rice Straw Biogas Hub	Sep 2022 - Aug 2025	Philippines	Innovate UK
Process Documentation and Assessment of the Implementation of DA-BAR's Technology Business Incubation Program	Oct 2022- Dec 2022	Philippines	Department of Agriculture - Bureau of Agricultural Research
Southeast Asian Learning Framework for Integrated, Inclusive, and Innovative Public Policy Cycles for Family Farming (Activity 3 of "A Series of Activities under the Framework of the UN Decade of Family Farming)	21 Oct 2022 - 5 Dec 2022	Cambodia Indonesia Lao PDR Philippines Thailand Vietnam	Corporacion Procasur-Brazil
Bridging and Upgrading the Mechanisms and Pathways for the Uptake of Biotech (BUMP UP Biotech)	17 Apr 2023 - 16 Apr 2024	Philippines	DA-BAR, DA-BPO
USDA FAS Manila Biotech Outreach. 2023	Jun 2023- Aug 2023	Philippines	USDA
<b>Innovation (3)</b>			
Development of Pilot Digital Agriculture Platform in the Philippines Project	Sep 2020 - Aug 2022	Philippines	APPGeese, Inc.
Establishment of the Southeast Asian Agri-Tech Transfer (SAATT) Hub	Jun 2022 - Dec 2022	SEARCA	University of the Philippines Los Baños (UPLB)
Food is Life Exemplified for Planetary Health Diet (FLEXPHD) Mobile App Development Competition	Nov 2022 - Dec 2023	Philippines	National Academy of Science and Technology Philippines (NAST PHL), DOST-PCAARRD

**Annex 12. SEAMEO SEARCA Grants, FY 2022/2023**

<b>Name of Grantee/ Institution Representative</b>	<b>Institution / Position</b>	<b>Country</b>	<b>Project Title/ Research/ Paper/ Conference/ Date and Venue</b>	<b>Date of Award to Date Completed / Duration</b>	<b>Grant Amount</b>
<b>Grants for Research and Agri-Innovation Solutions (GRAINS) (13)</b>					
<b>New (2)</b>					
Mr. Eko Komara	Penabulu Foundation/ Executive Director	Indonesia	Strengthening the Supply Chain and Traceability for Okra Commodity Using Blockchain-based Tracking and Traceability Tools (DAKOTA) in Grobogan, Central Java	1 Mar 23 - 1 Sep 2023	USD 14,999
Mr. John Lester Mendoza	Farmbox Agri Trading/ Co-Founder and President	Philippines	Farm Box: Advancing Small Holder Farmers Through Investment and Agri-Innovative Solutions	1 Mar 23 - 1 Feb 2024	PHP 750,000
<b>Ongoing (4)</b>					
Dr. Jose V. Camacho, Jr.	University of the Philippines (UPLB)/ Chancellor	Philippines	Conceptualizing Halal Industry and One Health (H2O) Ecosystem as an Emerging Innovation for Growth and Development: Establishment of the Halal Science and Technology (SandT) Knowledge Center for Southeast Asia in the Philippines (Phase 1)	1 Jan 21 - 30 Dec 2022	PHP 720,000
Dr. Reynaldo M. Lantin	Malvar Organic Farmers Agriculture Cooperative/ Chairperson	Philippines	Commercial Seed Production and Farming System Integration of Three Elite Traditional Rice Varieties	1 May 22 - 30 Nov 2023	PHP 750,000
Ms. Carol Bernadette R. Domalsin	-	Philippines	ARCHIE, Agri Robot for Crop Health in Insect Control	15 Jun 2022 - 30 Mar 2024	PHP 350,000
Ms. Myka M. Fragata	-	Philippines	Enhancement of Prototype and Assessment of Product Marketability of AIRIN (Automated Irrigation and Nutrient Management System) for Small-scale Farmers	15 Jun 2022 - 30 May 2023	PHP 350,000
<b>Completed (7)</b>					
Dr. Lilia M. Fernando	MakilingTek. Inc./ Director	Philippines	Establishment of a Pilot Plant as Manufacturing Facility for Hormogro @Nonencapsulated Plant Growth Regulators for High-value Crops Production	15 Feb 2022 - 30 Dec 2022	PHP 500,000
Fr. Narciso A. Cellan Jr.	University of San Carlos/ President	Philippines	Development of Chitosan-based Bioplastic from Shrimp Waste as Potential Industrial Packaging Material	1 Feb 2022 - 31 Mar 2023	PHP 750,000
Dr. Veronica C. Sabularse	HS InnoTek/ Director	Philippines	Construction of a Spin-off Pilot Plant for the Manufacture of Fruitect	11 Mar-22 - 31 Mar 2023	PHP 500,000
Fr. Jose Victor E. Lobrigo	Socioeconomic Development Program Multipurpose Cooperative (SEDP MPC)/ OIC, Executive Director	Philippines	Technology Adoption for People-Centered Innovation and Livelihood Integration (PILI) Project	21 Mar 2022 - 31 Dec 2022	PHP 750,000
Mr. Joseph Mario M. Navasero	-	Philippines	Bioconversion of Household, Agri-byproducts, and Other Organic Wastes into Insect-based Animal Feed and Organic Compost using Black Soldier Fly, <i>H. illucens</i>	15 Jun 2022 - 31 May 2023	PHP 350,000
Mr. George Y. Culaste	Bureau of Plant Industry - National Seed Industry Council/ Executive Director	Philippines	Formulating the Seed Industry Development Program (SIDP) of the Philippines	1 Sep 2021 - 30 Sep 2022	PHP 750,000
Ms. Julieane Camile Lacsina	Zion Agricultural Ventures, Inc. (GOEden)/ President and CEO	Philippines	Improving Farmers Access to Agricultural Technology, Products and Services Through Digitization and Consolidation of Local Agri-supply Stores	1 Feb 2022 - 1 Oct 2022	PHP 750,000

Name of Grantee/ Institution Representative	Institution / Position	Country	Project Title/ Research/ Paper/ Conference/ Date and Venue	Date of Award to Date Completed / Duration	Grant Amount
<b>SEARCA Regional Professorial Chair (SRPC) (9)</b>					
<b>New (5)</b>					
Assoc. Prof. Dr. He Jie	Nanyang Technological University	Singapore	Greenhouse and Indoor Vegetable Production in the Tropics: Microclimate control to increase productivity and nutritional quality in a cost-effective manner	AY 2023-2024	USD 5,000
Prof. Dr. Orlando Balderama	Isabela State University	Philippines	Enabling Farmers and Local Government Extension Services Address Climate Change Issues Using Integrated Crop Modeling Tools and Smart Climate Service	AY 2023-2024	USD 5,000
Prof. Ir. Dr. Faizal Mustapha	Universiti Putra Malaysia	Malaysia	Development of Palm Oil Waste for Thermal Barrier Coating Material in Preventing Heat Losses and Reducing Carbon Footprints (CO2) in Oil Refinery Plants	AY 2023-2024	USD 5,000
Asst. Prof. Dr. Suporn Thongyuan	Kasetsart University	Thailand	Application of Holistic Approach to Promote Health at Human-Animal- Environment Interface	AY 2023-2024	USD 5,000
Assoc. Prof. Dr. Nguyen Dac Khoa	Can Tho University	Vietnam	Prospects for Sustainable Plant Disease Management	AY 2023-2024	USD 5,000
<b>Completed (4)</b>					
Ms. Siti Khairunniza Bejo	Universiti Putra Malaysia	Malaysia	Plant Disease Sensing Using Hyperspectral Imaging and Machine Learning Techniques: A case study in <i>Ganoderma boninense</i> infection	Apr 2022 - Apr 2023	USD 5,000
Mr. Helmi Zulhaidi Mohd Shafri	Universiti Putra Malaysia	Malaysia	Development of Oil Palm Yield Prediction Model Using Advanced Geospatial and Machine Learning Techniques	Apr 2022 - Apr 2023	USD 5,000
Ms. Sirikachorn Tangkawattana	Khon Kaen University	Thailand	Zoonotic Disease; From Liver Fluke Control to Community's Supplemental Income/Agricultural Benefits	Apr 2022 - Jun 2023	USD 5,000
Mr. Renato G. Reyes	Central Luzon State University	Philippines	Recent Advances on the Domestication and Mykopharming of Wild Edible Mushrooms in the Philippines for the Biofunctional Food Industry	Apr 2022 - Apr 2023	USD 5,000
<b>SEARCA Travel Grants Program (STGP) (8)</b>					
Mr. Emer C. Gestiada	University of the Philippines Los Baños- National Institute of Molecular Biology and Biotechnology (UPLB- BIOTECH)/ University Researcher II	Philippines	Endemic Microbes and Biochar Technology Increased Above- ground Biomass and Carbon Stock of <i>Pterocarpus indicus</i> Willd. in a Mined- out Area, 19th International Conference on Sustainable Energy Technologies 16-18 Aug 2022, Istanbul, Turkey	16-18 Aug 2022	USD 1,200
Mr. Lamberto C. Perolina	Education Program Supervisor Schools Division Office of Laguna Sta. Cruz, Laguna, Philippines	Philippines	Sustaining Schools-plus-Home Gardens Project (S+HGP): Imperative to Food Security in the Time of Pandemic, First International Conference on School-plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1) 8-12 Nov 2022, Coron, Palawan, Philippines	8-12 Nov 2022	PHP 68,400

Name of Grantee/ Institution Representative	Institution / Position	Country	Project Title/ Research/ Paper/ Conference/ Date and Venue	Date of Award to Date Completed / Duration	Grant Amount
Ms. Soledad S. Villanueva	Public Schools District Supervisor Cavinti Sub-Office Cavinti, Laguna, Philippines	Philippines	Project Grain: In Response to Sustainable Development of School and Home Vegetable Garden, First International Conference on School- plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1) 8-12 Nov 2022, Coron, Palawan, Philippines	8-12 Nov 2022	PHP 68,400
Ms. Michelle R. Samia	Master Teacher I Labuin Elementary School Pila, Laguna, Philippines	Philippines	Growing Resiliency in Education through Enhanced Nutrition, First International Conference on School- plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1) 8-12 Nov 2022, Coron, Palawan, Philippines	8-12 Nov 2022	PHP 68,400
Dr. Mona Liza F. Delos Reyes	University Researcher III University of the Philippines Los Baños Laguna, Philippines	Philippines	Assessment of Modernization Needs for the Philippine National Irrigation Systems to Support High Value Crop Production and Towards Enhanced Capacity of Farmers and Institutions in Irrigation and Drainage as Key Contributors to Sustainable Food Production and Poverty Alleviation in the Philippines, WGMR International Workshop of the Commission on Irrigation and Drainage (ICID) 24th International Congress and 73rd International Executive Council Meeting 3-10 Oct 2022, Adelaide, Australia	3-10 Oct 2022	PHP70,740
Dr. Anton Louise P. de Ocampo	Assistant Professor Batangas State University, Batangas, Philippines	Philippines	Normalized Difference Vegetation Index (NDVI) Estimation based on Filter Augmented Imaging, International Electrical Engineering Congress (iEECON2023) 8-10 Mar 2023, Krabi Aonang, Thailand	8-10 Mar 2023	USD 1,200
Mr. Albert A. Piñon	Assistant Professor 1 University of the Philippines, Los Baños, Laguna, Philippines	Philippines	Indole-3-Butyric Acid (IBA) and leaf trimming regulate the adventitious root formation of stem cuttings derived from mature Aquilaria cumingiana [Decne] Ridl., Network for Education and Research on Peace and Sustainability (NS) Conference 2023 28 Feb - Mar 2023, Bangkok, Thailand	28 Feb - 3 Mar 2023	USD 1,200
Mr. Francis C. Quingco	Maintenance Engineer/ Part-time Instructor Silliman University, Dumaguete, Negros Oriental	Philippines	Design of Biogas Equipment Using Filter Cake with and without Cow Dung Additives as Input, 31st European Biomass Conference and Exhibition 2023 5-8 Jun 2023, Bologna, Italy	5-8 Jun 2023	USD 1,200
<b>Seed Fund for Research and Training (SFRT) (14)</b>					
<b>New (5)</b>					
Dr. Aah Ahmad Almulqu	State Agricultural Polytechnic of Kupang	Indonesia	Participatory assessment of Carbon Stock in Hutan Mamar (Traditional Agroforestry) of East Nusa Tenggara, Indonesia	22 Jun 2023	USD 15,000
Dr. Noor Zafira Binti Noor Hasnan	Universiti Putra Malaysia	Malaysia	Towards a Resilient Fishery Food System: An exemplary analysis of food loss in fish processing and identification of improvement based on digitalization	22 Jun 2023	USD 15,000



Name of Grantee/ Institution Representative	Institution / Position	Country	Project Title/ Research/ Paper/ Conference/ Date and Venue	Date of Award to Date Completed / Duration	Grant Amount
Dr. Jaime A. Manalo IV	Philippine Rice Research Institute	Philippines	Understanding Adoption Trajectories of Select Rice Production Technologies	22 Jun 2023	USD 14,931 (peso equivalent)
Dr. Ramona Isabel S. Ramirez	Central Bicol State University of Agriculture	Philippines	Promoting Innovation and Entrepreneurship through Community-based Value-added Cacao Products Enterprise	22 Jun 2023	USD 15,000 (peso equivalent)
Mr. Le Ngoc Hiep	University of Economics Ho Chi Minh City	Vietnam	The Impacts of Climate Change on Food and Nutrition Security among Ethnic Minority Children in Vietnam: Evidence for public health nutrition policy development	22 Jun 2023	USD 15,000
<b>Ongoing (6)</b>					
Dr. Rodelio F. Subade	Division of Social Sciences, College of Arts and Sciences, University of the Philippines Visayas (UPV)	Philippines	Integrated Economic Valuation for Inclusive Conservation and Sustainability of Coastal Ecosystem Services: A Case for Taklong Island National Marine Reserve, Guimaras	4 Feb 2016	PHP 659,890
Ms. Nuva Nuva	Department of Resource and Environmental Economics, Faculty of Economics and Management - IPB University	Indonesia	Integrating Marine Aquaculture with Seaweed Farming in Supporting Community's Livelihood towards Blue Economy Implementation in Lombok, Indonesia	9 Feb 2016	USD 13,500
Mr. Huynh Viet Khai	Can Tho University	Vietnam	Climate Change Impact on Rice Production and Adaptation: A Case Study of Salinity Intrusion in Coastal Areas of the Mekong Delta, Vietnam	9 Feb 2016	USD 13,960
Dr. Tri Rini Nuringtyas	Research Center for Biotechnology, Universitas Gadjah Mada (UGM)	Indonesia	Development of Pigmented Rice for Rural Community	18 Feb 2016	USD 12,520
Dr. Reynold D. Tan	College of Management, University of the Philippines Visayas	Philippines	Quality Degradation of Milkfish ( <i>Chanos chanos</i> ) Along the Food Value Chain: An assessment in municipalities with high incidence of malnutrition in the Province of Iloilo	6 Mar 2015	USD 13,086
Mr. Dedisio Jose Lay Ximenes	Ministry of Agriculture and Fisheries Rua de Nicolau Lobato, Comoro Dili, Timor- Leste	Timor- Leste	Enhancing Food Production, Quality, and Safety through Integrated, Sustainable, and Market-driven Farming Systems	18 Feb 2015	USD 12,884
<b>Completed (3)</b>					
Dr. Nguyen Van Kien	An Giang University	Vietnam	Social perception of the Organics Industry in Vietnam	1 Aug 2019 - May 2023	USD 15,000
Dr. Le Thi Thanh Loan	Vietnam National University of Agriculture	Vietnam	Food and Nutrition Security of Poor Households in Tuong Duong District, Nghe An Province, Vietnam	5 Jul 2019 - June 2023	USD 7,846
Dr. Ngo Thi Thanh Truc	Department of Environmental Economics, College of Economics, Can Tho University	Vietnam	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	23 Oct 2017 - Mar 2023	USD 14,971

Name of Grantee/ Institution Representative	Institution / Position	Country	Project Title/ Research/ Paper/ Conference/ Date and Venue	Date of Award to Date Completed / Duration	Grant Amount
<b>IFS-SEARCA Collaborative Research Grants (10)</b>					
<b>Ongoing (10)</b>					
Mr. Thanh Dien Le	Van Lang University	Vietnam	Isolation and Characterization of Bacteriophages for Biocontrol of Multidrug-resistant <i>Campylobacter jejuni</i> in Broilers	13 Jun 2022 - 2 Jun 2024	
Dr. Nguyen Thi Tam Thu	Academy of Military Science and Technology	Vietnam	Production and Characterization of Polyhydroxyalkanoate (PHA) by Halophilic Microorganisms Isolated from Truong Sa Sea in Vietnam	15 Aug 2022 - 4 Aug 2024	
Dr. Tran Nguyen Duy Khoa	Can Tho University	Vietnam	Application of Light-emitting Diodes (LEDs) in Larviculture of Mud Crab ( <i>Scylla paramamosain</i> )	1 Jan 2022 - 21 Jul 2024	
Dr. Quoc An Trieu	Nguyen Tat Thanh University	Vietnam	Recovery of Phosphate from Eutrophic Water Bodies by Nano-biocomposite Adsorbents: Application as smart fertilizers	30 Jun 2022 - 19 Jun 2024	
Mr. Huu Tien Nguyen	Institute of Ecology and Biological Resources - Vietnam Academy of Science and Technology	Vietnam	Study on Damaging Potential and Diversity of Plant-parasitic Nematodes Associated with Vegetables in Vietnam and Develop Biological Control Strategies Using Endophytic Bacteria	1 Jan 2022 - 16 Dec 2024	
Dr. Magdalena Lenny Situmorang	Institut Teknologi Bandung	Indonesia	Application of Closed Hybrid Zero Water Discharge-Recirculating Aquaculture System Technology Along with Symbiotic Functional Feed for Alternative to Antibiotics for Disease Biocontrol Strategy in Whiteleg Shrimp <i>Litopenaeus vannamei</i> Culture	2 Feb 2022 - 23 Jan 2024	
Ms. Mildred Guirindola	Department of Science and Technology	Philippines	Food Environment and Socio-ecological Attributes as Drivers of Food Security Before and During Enhanced and General COVID-19 Quarantines in Cavite, Philippines	15 Aug 21 - 10 Aug 2022; 31 Jul 2023	
Dr. Oanh Nguyen Cong	Vietnam National University of Agriculture	Vietnam	Potential for Using Some Indigenous Medicinal Plants as Feed Additives Relating to Animal Health, Growth Performance and Meat Quality of Pigs in Northern Vietnam	1 Oct 2021 - 21 Sep 2023	
Dr. Thi Lam Bui	Vietnam National University of Agriculture	Vietnam	Moving Toward a Healthier Diet: Consumer Intention to Eat More Vegetables and Less Meat in Vietnam	1 Sep 2021 - 24 May 2023	
Dr. Thien Nguyen	Duy Tan University	Vietnam	Experimental and Computational NMR in Detection, Structure Elucidation, and Kinetic Analysis of Lipid Oxidation Products in Fried Foods in Vietnam	3 Dec 2021 - 17 Nov 2024	

### Annex 13. List of Formal Agreements with Collaborating Institutions, FY 2022/2023

Institution/ Organization	Purpose of Agreement	Amount Involved		Duration	
		From Partner	From SEARCA	Start Date	End Date
International/Regional Partners (11)					
Innovate UK	Grant Offer Letter for collaborative project on “Rice Straw Biogas Hub”	£ 1,761,330 (£ 452,957 for SEARCA Work Package)		1 Sep 2022	31 Aug 2025
The HEAD Foundation	LOA on 3rd Leadership Development Program for Higher Education Institutions (LDP-HEIs) in the Philippines	USD 15,305.86	PHP 2,338,410.70	1 Oct 2022	30 Jun 2023

Institution/ Organization	Purpose of Agreement	Amount Involved		Duration	
		From Partner	From SEARCA	Start Date	End Date
International School of Sustainable Tourism (ISST)	LOA on Joint implementation of the International Ecotourism Travel Mart (IETM)		USD 9,000 PHP 677,764	3 Oct 2022	15 May 2023
Corporación Procasur	LOA to implement the Subregional face-to-face training in Asia in relation to the project titled "A series of activities in the framework of the UN Decade of Family Farming"	USD 22,870		21 Oct 2022	5 Dec 2022
International Union for the Conservation of Nature (IUCN)	LOA to jointly organize and implement of the virtual training program on Transformational Agricultural Innovation Systems for the New Future (TrAlnS)	(Staff time and expertise)	PHP 703,000	16 Nov 2022	3 Feb 2023
Access Agriculture	MOU: Institutional Cooperation/ Collaboration on Knowledge Dissemination and Learning Towards Sustainable Agricultural Development in Southeast Asia			10 Dec 2022	31 Dec 2024
World Bank Philippines (WB)	Partnership letter in co-organizing the 45th SEARCA Online Learning and Virtual Engagement (SOLVE) and Agriculture and Development Seminar Series (ADSS) of the Philippines Country Climate and Development Report (CCDR)		Venue and SOLVE platform	12 Feb 2023	
Newfields Consulting Ltd.	Training Cum Workshop Series for the Carbon Wise Rice-based Farming			5 Mar 2023	31 Dec 2023
Nagoya University (NU)	MOA on Operation for Receipt and Disbursement of Nagoya University Funds for Asian Satellite Campuses Institute Activities in the Philippines			1 May 2023	30 Apr 2024
Asian Institute of Technology (AIT)	MOU: Institutional Cooperation			16 May 2023	15 May 2028
Asia Pacific Association of Educators in Agriculture and Environment (APAEEN)	8th Asian Pacific Association of Educators in Agriculture and Environment International Conference	PHP 50,000	PHP 50,000	1 Sep 2023	31 May 2024
<b>National Partners (27)</b>					
University of the Philippines Open University (UPOU) and University of the Philippines Open University Foundation, Inc.	MOA: International Tri-Conference 2023		PHP150,000	30 Jun 2023	
Felta Multi-Media, Inc.	Institutional Cooperation			1 Jul 2022	1 Jun 2027
Synergy Group Operations, Inc.	Institutional Cooperation			1 Jul 2022	1 Jun 2027
Kids Who Farm Sustainable Food Systems, Inc.	Hydroponics Para Sa Masa Project	PHP 50,000	PHP 50,000	1 Sep 2022	31 Dec 2022
Regalo ng Kilit Foundation, Inc.	LOA Ref. No. 22-049: First International Conference on School-Plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1)	PHP 318,000	PHP 422,000 and USD 400	7 Nov 2022	30 Apr 2023
Synergy Group Operations, Inc.	To implement a technical trainers' training in relation to the School Edible Landscaping for Entrepreneurship (SEL4E) Project in Rizal Province, Philippines	PHP 1,586,786	PHP 1,003,075	1 Oct 2022	30 Sep 2024
Catanduanes State University	Institutional Cooperation			10 Oct 2022	11 Jan 2028
Universidade De Paz	Institutional Cooperation			10 Oct 2022	10 Oct 2027

Institution/ Organization	Purpose of Agreement	Amount Involved		Duration	
		From Partner	From SEARCA	Start Date	End Date
Department of Agriculture-Bureau of Agricultural Research	Process documentation and assessment of the implementation of the DA-BAR's Technology Business Incubation (TBI) Program	PHP 3,937,472		13 Oct 2022	1 Mar 2023
Ateneo Center for Economic Research and Development	Book Launch for "Pro-poor Development Policies: Lesson from the Philippines and East Asia"		PHP 150,000	21 Oct 2022	15 Nov 2022
National Academy of Science and Technology, Philippines, and the Department of Science and Technology (DOST) - Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (PCAARRD)	Food is Life Exemplified for Planetary Diet (FLEXPID) Mobile App Competition	NAST: PHP 1,211,076 DOST: PHP 1,300,000	PHP1,000,000	1 Nov 2022	20 Jun 2023
Agriportal Advocates Philippines, Inc.	MOU Ref No. 22-069/ Institutional Cooperation			17 Jan 2023	17 Jan 2028
Farm Box	Farm Box: Advancing Small Holder Farmers through investment and Agri-Innovative Solutions		PHP 750,000	1 Feb 2023	1 Feb 2024
Lactation, Attachment, Training, Counseling, Help Los Baños (LATCH)	Los Baños Human Milk Donation Drives	PHP 148,000	PHP 200,000	1 Feb 2023	31 Jul 2023
Penabulu Foundation	Strengthening the Supply Chain and Traceability for Okra Commodity Using Blockchain-based Tracking and Traceability Tools (DAKOTA) in Grobogan, Central Java		USD 15,000	1 Feb 2023	1 Aug 2023
Pilipinas Shell Foundation	LOA Ref. NO 22-062: Implementation of the School Edible Landscaping Project in Rizal Province	PHP 53,750	PHP 1,003,075	14 Feb 2023	30 Jun 2024
Dagatan Family Farm School	Institutional Cooperation			15 Feb 2023	14 Feb 2028
Department of Agriculture-Bureau of Agricultural Research	Benchmarking of the Agricultural Research for Development (RAD) Management System with Selected Asian Countries	PHP 9,999,359.20	PHP 680,000	1 Apr 2023	31 Jan 2024
Department of Agriculture-Bureau of Agricultural Research	Memorandum of Agreement between SEARCA and DA-BAR for the Implementation of Project on "Bridging and Upgrading the Mechanisms and Pathways for the Uptake of Biotech (BUMP UP Biotech)"	PHP 5,706,162.53		17 Apr 2023	16 Apr 2024
Provincial Government of Oriental Mindoro	Technical Assistance for the Development of the Calamansi Industry Roadmap in Oriental Mindoro	PHP 250,000	PHP 492,500		30 Jun 23
University of the Philippines Open University (UPOU) and the UPOU Foundation, Inc.	A Series of Non-formal Online Courses on Climate Change Adaptation and Disaster Risk Management, Climate Risks in Agriculture, and Impact Assessment	Revenue share of 75% from the course offerings	Revenue share of 25% from the course offerings	29 Jun 2023	28 Jun 2028
University of the Philippines Open University	Institutional Cooperation			30 Jun 2023	31 May 2028
University of the Philippines Los Baños, UP Agribusiness Society	Partnership for Youth Leaders of Agribusiness Congress 2023		PHP 20,000		30 Jun 2023
Felta Multi-Media, Inc.	To provide support to the Philippine Robotics Olympiad and World Robot Olympiad for 2022-2023	PHP 5,580,000	PHP 690,000		31 Jul 2023
Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN) of the Royal University of Agriculture	LOA Ref. 23-023: Technical Training on Edible Landscaping for the Establishment and Enhancement of Agricultural Technology Parks (ATPs) and Mini-ATPs in Cambodia	USD 3,748	USD 10,833	18 May 2023	31 Dec 2023



Institution/ Organization	Purpose of Agreement	Amount Involved		Duration	
		From Partner	From SEARCA	Start Date	End Date
Department of Education - Division of Rizal and Provincial Government of Rizal	School Edible Landscaping for Entrepreneurship (SEL4E) Project in Rizal Province				30 Dec 2024
Provincial Government of Quezon and the Philippine Coconut Authority	Development of the Coconut Industry Growth Areas in Catanauan, Quezon Pathways for the Uptake of Biotech (BUMP UP Biotech)"	PHP 4,215,200	PHP 4,000,221		30 Jun 2025
Provincial Government of Oriental Mindoro	Technical Assistance for the Development of the Calamansi Industry Roadmap in Oriental Mindoro	PHP 250,000	PHP 492,500		30 Jun 23
University of the Philippines Open University (UPOU) and the UPOU Foundation, Inc.	A Series of Non-formal Online Courses on Climate Change Adaptation and Disaster Risk Management, Climate Risks in Agriculture, and Impact Assessment	Revenue share of 75% from the course offerings	Revenue share of 25% from the course offerings	29 Jun 2023	28 Jun 2028
University of the Philippines Open University	Institutional Cooperation			30 Jun 2023	31 May 2028
University of the Philippines Los Baños, UP Agribusiness Society	Partnership for Youth Leaders of Agribusiness Congress 2023		PHP 20,000		30 Jun 2023
Felta Multi-Media, Inc.	To provide support to the Philippine Robotics Olympiad and World Robot Olympiad for 2022-2023	PHP 5,580,000	PHP 690,000		31 Jul 2023
Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN) of the Royal University of Agriculture	LOA Ref. 23-023: Technical Training on Edible Landscaping for the Establishment and Enhancement of Agricultural Technology Parks (ATPs) and Mini-ATPs in Cambodia	USD 3,748	USD 10,833	18 May 2023	31 Dec 2023
Department of Education - Division of Rizal and Provincial Government of Rizal	School Edible Landscaping for Entrepreneurship (SEL4E) Project in Rizal Province				30 Dec 2024
Provincial Government of Quezon and the Philippine Coconut Authority	Development of the Coconut Industry Growth Areas in Catanauan, Quezon	PHP 4,215,200	PHP 4,000,221		30 Jun 2025

#### Annex 14. Published SEAMEO SEARCA Press Releases, FY 2022/2023

Date	Publication	Title
<b>2022</b>		
13 Jul	Journal Online	SEARCA, SGOI partner for school edible landscaping for entrepreneurship in Rizal Province
14 Jul	The Manila Times	SEARCA, UPLB collaborate for baseline assessment of coconut industry in Quezon
14 Jul	Noon Break Balita	SEARCA, SGOI partner for school edible landscaping for entrepreneurship in Rizal Province
14 Jul	Philippine Information Agency	SEARCA, UPLB conduct training for baseline assessment of coconut industry in Quezon province
15 Jul	Noon Break Balita	SEARCA, UPLB conduct training for baseline assessment of coconut industry in Quezon province
17 Jul	The Manila Times	Project seeks to engage youth in agriculture
20 Jul	Daily Guardian	SEARCA, SGOI partner for school edible landscaping for entrepreneurship
21 Jul	The Manila Times	Searca conducts lecture for better vegetable growing
22 Jul	Daily Guardian	SEARCA study investigates household-level coping strategies for food security during pandemic
28 Jul	The Manila Times	Searca, Cambodia university partnership on internal quality assurance continues
28 Jul	Khmer Times	Searca and Cambodia's Royal University of Agriculture continue partnership on internal quality assurance
28 Jul	Khmer Times	Searca និងសាកលវិទ្យាល័យកុម្មុយនីស្តកម្ពុជា ជាបន្ត ភាពជាដៃគូ លើការធានាគុណភាពផ្ទៃក្នុង
3 Aug	Philippine Star	Helping small farmers

Date	Publication	Title
3 Aug	Journal Online	SEARCA helps craft PH 2021-2030 national agri and fishery modernization, industrialization plan
3 Aug	Journal Online	SEARCA, DepEd renew ties to promote agri among learners, educators
3 Aug	Archynetys	DepEd, Searca renew agricultural education and learning partnership
4 Aug	The Manila Times	DepEd, Searca renew partnership on agri education
4 Aug	Daily Guardian	SEARCA, DepEd renew ties to promote agri among learners, educators
4 Aug	Nipponese News	DepEd-Searca が農業教育に関するパートナーシップを更新
4 Aug	FR Posts Us	DepEd et Searca renouvellent leur partenariat sur l'enseignement agricole
6 Aug	Daily Guardian	SEARCA helps craft national agri-fishery modernization, industrialization plan
8 Aug	The Manila Times	Searca, SGV craft 10-yr agri, fishery plan
8 Aug	FR Posts Us	Searca, SGV craft 10 ans agri, plan de
11 Aug	The Manila Times	Laguna students compete at PH Robotics Olympiad 2022 - Searca
12 Aug	Journal Online	SEARCA hosts first Laguna Robot LEGOlympics
13 Aug	Palawanderer	SEARCA, DepEd renew ties to promote agri among learners, educators
13 Aug	Noon Break Balita	SEARCA Hosts First Laguna Robot Legolympics
13 Aug	BusinessMirror	SEARCA, DepEd renew ties to promote agriculture among learners, educators
13 Aug	Noon Break Balita	SEARCA Inilungsad ang SHARING
14 Aug	BusinessMirror	First Laguna Robot LEGOlympics held in Searca
14 Aug	The Post	Kabataan Hinikayat Kumuha ng Kursong Agrikultura
17 Aug	BusinessMirror	ADB taps SEARCA for 10-year agriculture modernization plan
17 Aug	Manila Bulletin	P5-T long term agri plan for PH submitted to DA — SEARCA
17 Aug	Manila Standard	ADB taps SEARCA for 10-year agriculture modernization plan that needs multi-trillion budget
18 Aug	Malaya Business Insight	10-year P5T agri plan set
18 Aug	The Manila Times	34 Searca scholars complete graduate studies
1 Sep	The Manila Times	Malaysian university, Searca conduct training on halal
1 Sep	The Manila Times	Searca offers blended English lessons for scholars
2 Sep	Philippine News Agency	NegOcc solon seeks creation of trading center in every province
12 Sep	Philippine Daily Inquirer	Local solutions toward food
14 Sep	The Manila Times	Searca sets Nov. 30 deadline for contest
14 Sep	Journal Online	Southeast Asia-wide photo contest zooms in on emerging agri innovations for next generation
15 Sep	Noon Break Balita	Southeast Asia-wide photo contest zooms in on emerging agri innovations for next generation
19 Sep	The Manila Times	Laguna soon to have rice straw biogas hub
21 Sep	Journal Online	Rice straw biogas hub to rise in Laguna
22 Sep	The Post	Rice Straw Biogas Hub to Rise in Laguna
22 Sep	Radio Agila	Rice Straw Biogas hub, itatayo sa Laguna
22 Sep	Noon Break Balita	Rice straw biogas hub to rise in Laguna
23 Sep	Daily Guardian	Rice straw biogas hub to rise in Laguna
24 Sep	Sentinel Times	Rice Straw Biogas Hub to rise in Los Baños this Sep
27 Sep	Philippine Morning Post	Turning methane from rice straw into clean fuel
29 Sep	The Manila Times	SEARCA, USAID discuss food security involving 19 schools
13 Oct	The Manila Times	Searca presents overview of available scholarship programs
20 Oct	The Manila Times	HEI faculty members visit Asean universities for benchmarking
20 Oct	The Manila Times	Multi-generation UPLB Alumni Award conferred on Searca director's family
26 Oct	Journal Online	SEARCA evaluates TESDA program on accelerating establishment of farm schools
27 Oct	Daily Guardian	SEARCA evaluates TESDA program on accelerating establishment of farm schools
27 Oct	Noon Break Balita	SEARCA evaluates TESDA program on accelerating establishment of farm schools
27 Oct	The Manila Times	PH HEI delegates triumph in Indonesia
27 Oct	The Manila Times	MSC mentor receives CHED scholarship grant

Date	Publication	Title
2 Nov	The Manila Times	Searca eyes agri-tech tie-up
3 Nov	Noon Break Balita	International travel mart courses on ecotourism
3 Nov	The Manila Times	Searca evaluates Tesda program on farm schools
4 Nov	Daily Guardian	International travel mart courses on ecotourism
9 Nov	The Manila Times	International 'BioAgversity' conference held in Coron
10 Nov	Noon Break Balita	SEARCA, Regalo ng Kilit Foundation convene Int'l Conference on 'BioAgversity' in Coron
10 Nov	The Manila Times	Searca, Timor university institutionalize mutual cooperation
11 Nov	Tuklasin Natin	SEARCA, Regalo ng Kilit Foundation convene Int'l Conference on 'BioAgversity' in Coron
11 Nov	Palawanderer	SEARCA, Regalo ng Kilit Foundation convene Int'l Conference on 'BioAgversity' in Coron
14 Nov	Journal Online	New book on pro-poor development policies published in honor of PH chief economist
16 Nov	The Manila Times	Balisacan honored with pro-poor devt book
20 Nov	BusinessMirror	How healthy is your diet?
23 Nov	The Manila Times	Cornell University food system specialist tells Filipino youth to go into agriculture
23 Nov	The Manila Times	Genetically engineered crops benefit SEA farmers
1 Dec	The Manila Times	Searca encourages establishment of farm field schools
6 Dec	The Manila Times	14th SyenSaya science festival in Los Banos, Laguna kicks off
8 Dec	The Manila Times	UC holds 6th Summer School after pandemic
9 Dec	The Manila Times	Deadline for nationwide app devt tilt set Dec. 31
13 Dec	The Manila Times	Workshop enhances Asean agri innovations
16 Dec	The Manila Times	Searca pushes new approach to agri innovations
22 Dec	The Manila Times	Searca, IUCN pilot training-workshop to enhance agri innovation systems
29 Dec	The Manila Times	CLSU organizes 4th UC faculty forum to ensure agri productivity
29 Dec	The Manila Times	Experts see challenges to global food system
<b>2023</b>		
5 Jan	The Manila Times	Searca conducts Thailand cross-visit for PH HEIs
11 Jan	Journal Online	SEARCA video contest on youth agripreneurs deadline extended until Jan. 15
11 Jan	Noon Break Balita	SEARCA video contest on youth agripreneurs deadline extended until Jan. 15
16 Jan	The Manila Times	Israeli Embassy pushes farming-tech linkages
18 Jan	Journal Online	SEARCA supports digitizing supply stores for farmers
19 Jan	The Manila Times	Online agri supply store launched
19 Jan	Noon Break Balita	SEARCA supports digitizing supply stores for farmers
19 Jan	The Manila Times	German delegation recognizes scholars in Searca visit
20 Jan	Daily Guardian	SEARCA supports digitizing supply stores for farmers
22 Jan	The Manila Times	Bicol pili farmers gain needed support
24 Jan	Philippine Morning Post	SEARCA Director pushes for culture of agri-innovation
25 Jan	Daily Guardian	SEARCA director pushes for culture of agri-innovation
25 Jan	NewsBreezer	CatSU, Searca forge links for institutional collaboration
26 Jan	The Manila Times	CatSU, Searca forge links for institutional cooperation
27 Jan	Journal Online	Malaysian appointed SEARCA Deputy Director for Programs
28 Jan	Manila Standard	SEARCA supports digitizing access to agricultural supply
29 Jan	BusinessMirror	Searca head pushes for culture of agri-innovation
30 Jan	The Manila Times	Asean bats for more agri-innovations'
31 Jan	Daily Guardian	Malaysian appointed SEARCA Deputy Director for Programs
2 Feb	The Manila Times	Farm school students train on agri-robotics
2 Feb	The Manila Times	Searca appoints MY prof as deputy director
2 Feb	The Manila Times	CvSU receives citation from DA-BPI
3 Feb	Journal Online	Bicol pili farmers get needed support
3 Feb	Manila Bulletin	The profitability of planting transgenic eggplants

Date	Publication	Title
7 Feb	Journal Online	Filipinos dominate 2022 SEARCA Photo Contest
8 Feb	Noon Break Balita	Filipinos dominate 2022 Searca photo contest
9 Feb	The Manila Times	Searca to scale up school garden program
9 Feb	The Manila Times	Filipinos dominate 2022 Searca photo contest
12 Feb	BusinessMirror	Filipinos dominate 2022 Searca photo contest
16 Feb	The Manila Times	Searca specialist gets prestigious Seameo service award
16 Feb	The Manila Times	Startup builds facility for growth stimulant
16 Feb	The Manila Times	World Bank to hold PH climate actions talk
17 Feb	CNN Philippines	World Bank warns PH of economic costs due to climate change
20 Feb	The Manila Times	Aging farmers could add to food insecurity
23 Feb	The Manila Times	Rizal schools get into community gardening projects
23 Feb	The Manila Times	VP assumes Seameo Council presidency
23 Feb	The Manila Times	Rizal schools get into community gardening projects
26 Feb	BusinessMirror	Bicol pili farmers get needed SandT, machineries support
2 Mar	The Manila Times	Searca study strengthens TBI programs in SUCs, DA field offices
2 Mar	The Manila Times	BASC officials visit SEARCA
2 Mar	The Manila Times	Searca maps recommendation to boost business incubation
9 Mar	The Manila Times	AgriPortal, Searca forge ties for sustainability
10 Mar	The Manila Times	SEARCA, DFFS promote smart agri among farming youths
19 Mar	The Manila Times	Coconut farmers acquire training
23 Mar	The Manila Times	Searca, DepEd partner in school-plus-home gardens project
23 Mar	The Manila Times	Japanese students visit Searca for agri-innovation tour
28 Mar	Journal Online	Searca empowers family farm schoolgirls in learning event
29 Mar	Journal Online	“SEARCA to hold one-day learning activity for Balete Family Farm School in celebration of International Women’s Month <a href="https://www.searca.org/news/searca-hold-one-day-learningactivity-balete-family-farm-school-celebration-international-women-month">https://www.searca.org/news/searca-hold-one-day-learningactivity-balete-family-farm-school-celebration-international-women-month</a> ”
30 Mar	Journal Online	“World Vegetable Center, SEARCA keen on synergizing for agri-food system <a href="https://www.searca.org/news/world-vegetable-center-searca-keen-synergizing-agri-foodsystem">https://www.searca.org/news/world-vegetable-center-searca-keen-synergizing-agri-foodsystem</a> ”
30 Mar	The Manila Times	Professorial chair awardee holds public lecture on wild edible mushroom
30 Mar	The Manila Times	Searca empowers all-female farm school with agripreneurship training
30 Mar	The Manila Times	1st ecotourism tavel mart starts in Cavite
1 Apr	The Manila Times	PH launches world’s first ‘green mart’
1 Apr	Journal Online	Experts gather to tackle food, nutrition security programs in Southeast Asian schools
6 Apr	The Manila Times	Palawan stakeholders visit Laguna to benchmark school, community gardens initiative
6 Apr	The Manila Times	Taiwan university, Searca explore areas of collaboration
11 Apr	Manila Bulletin	BSP, SEARCA to hold talks on regional agri-food systems
12 Apr	The Manila Times	BSP, Searca to host discussions on food
12 Apr	The Manila Times	USM explores partnership with Searca
13 Apr	The Manila Times	Innovate UK, Searca partner for agri-innovation, RE
18 Apr	BusinessWorld	Capacity-building seen as main bottleneck to digitalizing agriculture
18 Apr	Manila Bulletin	Gov’t urged to give incentives for smart agriculture investments
18 Apr	Manila Standard	World Bank asks PH to grant incentives on climate-smart projects
20 Apr	The Manila Times	BASC benchmarks Searca’s programs
20 Apr	The Manila Times	Scientists, biologists urged to communicate, collaborate
20 Apr	The Manila Times	Spanish embassy education advisor visits Searca for collaboration
21 Apr	Noon Break Balita	Kiko Pangilinan to speak on family farming in resilient food systems
21 Apr	Journal Online	Kiko Pangilinan to speak on family farming in resilient food systems
22 Apr	The Manila Times	Pangilinan to speak on effective family farming



Date	Publication	Title
24 Apr	Journal Online	Experts gather to tackle food, nutrition security programs in Southeast Asian schools
26 Apr	The Manila Times	Forum on sustainable, inclusive school food set
26 Apr	Journal Online	Laguna, Nueva Ecija farmers and agri officers eye bioenergy venture
27 Apr	The Manila Times	Rice straw eyed for bioenergy
28 Apr	Manila Standard	Partnership mulls potential use of rice straw forbiogas production in Laguna, N. Ecija
30 Apr	The Manila Times	Laguna, Nueva Ecija farmers and agri officers eye bioenergy venture
1 May	Manila Standard	World Bank urges PH to give perks on 'smart agriculture'
4 May	The Manila Times	Irish university, Searca up for collaboration
5 May	Journal Online	SEARCA supports project to turn shrimp waste into bioplastic
8 May	Journal Online	SEARCA and DA-BAR partner to benchmark agri research for dev't
10 May	Daily Guardian	SEARCA and DA-BAR partner to benchmark agri research for dev't
10 May	Noon Break Balita	SEARCA and DA-BAR partner to benchmark agri research for dev't
10 May	Manila Standard	PH to tap best practices in agri research for dev't
11 May	News Release - Online	Oriental Mindoro calamansi industry to get roadmap
11 May	News Release - Online	DepEd Palawan, SEARCA hold training on sustainable food production
11 May	The Manila Times	DepEd Palawan, Searca hold training on sustainable food production
11 May	The Manila Times	Oriental Mindoro calamansi industry to get roadmap
14 May	BusinessMirror	USC project turns shrimp waste into bioplastic
17 May	The Manila Times	Family farming to secure food'
18 May	The Manila Times	BAR, Searca to benchmark agri R4D
18 May	Chiang Mai CityLife	Maejo University, SEARCA co-organise forum on agriculture sustainability
20 May	The Freeman	SEARCA, BSP join efforts to empower Filipino farmers
20 May	The Manila Times	SEARCA, BSP join efforts to empower Filipino farmers
24 May	Ministry of Information, Cambodia	SEARCA, RUA CE SAIN Introduce Edible Landscaping In Cambodia's Mini-Agri Technology Parks
25 May	The Manila Times	Searca, AIT partner for Asean sustainable agriculture
25 May	The Manila Times	Searca, BSP kick off discussions on PH agri
26 May	Manila Bulletin	When a farm becomes a tourist attraction
28 May	BusinessMirror	Searca, BSP convene experts, partners for sustainable agri-food systems in SEA
31 May	Journal Online	Roadmap workshop sets Quezon Province coconut industry on track
28 Mar	Journal Online	Searca empowers family farm schoolgirls in learning event
29 Mar	Journal Online	SEARCA to hold one-day learning activity for Balete Family Farm School in celebration of International Women's Month
30 Mar	Journal Online	World Vegetable Center, SEARCA keen on synergizing for agri-food system
30 Mar	The Manila Times	Professorial chair awardee holds public lecture on wild edible mushroom
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26 Apr	The Manila Times	Forum on sustainable, inclusive school food set
26 Apr	Journal Online	Laguna, Nueva Ecija farmers and agri officers eye bioenergy venture
27 Apr	The Manila Times	Rice straw eyed for bioenergy
28 Apr	Manila Standard	Partnership mulls potential use of rice straw forbiogas production in Laguna, N. Ecija
30 Apr	The Manila Times	Laguna, Nueva Ecija farmers and agri officers eye bioenergy venture
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10 May	Daily Guardian	SEARCA and DA-BAR partner to benchmark agri research for dev't
10 May	Noon Break Balita	SEARCA and DA-BAR partner to benchmark agri research for dev't
10 May	Manila Standard	PH to tap best practices in agri research for dev't
11 May	News Release - Online	Oriental Mindoro calamansi industry to get roadmap
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11 May	The Manila Times	DepEd Palawan, Searca hold training on sustainable food production
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24 May	Ministry of Information, Cambodia	SEARCA, RUA CE SAIN Introduce Edible Landscaping In Cambodia's Mini-Agri Technology Parks
25 May	The Manila Times	Searca, AIT partner for Asean sustainable agriculture
25 May	The Manila Times	Searca, BSP kick off discussions on PH agri
26 May	Manila Bulletin	When a farm becomes a tourist attraction
28 May	BusinessMirror	Searca, BSP convene experts, partners for sustainable agri-food systems in SEA
31 May	Journal Online	Roadmap workshop sets Quezon Province coconut industry on track
1 Jun	The Manila Times	SEARCA supports Quezon coconut industry roadmap
1 Jun	The Manila Times	ISU professor among 5 Searca professorial grantees
1 Jun	The Manila Times	TH university hosts UC Graduate Forum on agriculture sustainability
1 Jun	The Manila Times	Searca alumna shares study on purple passion fruit
1 Jun	The Manila Times	Searca supports Quezon coconut industry roadmap
5 Jun	The Manila Times	Youth in Agri Talk Show' debuts in Laguna
8 Jun	The Manila Times	Searca to help develop gardens in Cambodia
8 Jun	The Manila Times	Searca trains Cambodian HEI leaders, officers on QA system
8 Jun	Khmer Times	Searca to help develop edible gardens in Cambodia
8 Jun	Khmer Times	មជ្ឈមណ្ឌល SEARCA នឹងជួយអភិវឌ្ឍន៍ស្នូលនៃកម្មវិធីប្រទេសកម្ពុជា
8 Jun	Khmer Times	Searca trains Cambodian higher education institution leaders, officers on quality assurance system

Date	Publication	Title
8 Jun	Khmer Times	មជ្ឈមណ្ឌល ស្រាវជ្រាវ Searca ផ្តល់វិគ្គ បណ្តុះបណ្តាល លម្អៀង ធានាគុណភាពផលរុក្ខ កង់កន្ទំស្រូវ ន ឧត្តិ មសក្សានៅកម្ពុជា
8 Jun	Journal Online	Green technology to preserve fresh fruits now available
8 Jun	Daily Guardian	Green technology to preserve fresh fruits now available
10 Jun	The Manila Times	Tech extends mangoes' shelf life
11 Jun	BusinessMirror	Fruitect green technology preserves fresh fruits
13 Jun	Philippine Morning Post	Green technology to preserve fresh fruits now available
15 Jun	The Manila Times	AIT dean visits Searca for collaboration
22 Jun	The Manila Times	PH instructor explores research on RE at ID university
22 Jun	The Manila Times	PH universities raise level of bioinformatics skills
22 Jun	The Manila Times	Leveling up the country's agricultural value chain
29 Jun	The Manila Times	Searca seeks collaboration with New Zealand

## Annex 15. SEAMEO SEARCA Publications, FY 2022/2023

### Books/Monographs (4)

- Ordonio, Reynante L., Edmund Jason G. Baranda, Paz J. Benavidez II, and Ruben L. Villareal. 2023. A Review of New Plant Breeding Techniques (NBTs) from the Viewpoint of Regulation. Laguna/Quezon City: SEARCA and Department of Agriculture Biotechnology Program Office (DA BPO). <https://www.searca.org/pubs/monographs?pid=539>
- Gordoncillo, Prudenciano U., Merlyne M. Paunlagui, Nanette A. Aquino, Zeynna E. Balangue, and Anieluz C. Pastolero. 2023. Linking Farmers to the Market: Toward Transforming Subsistence Farms to Commercial Farms. Laguna and Quezon City, Philippines: SEARCA and DA-BAR. <https://www.searca.org/pubs/monographs?pid=520>
- Cabrera, Emil John C., Jalyza Maye M. Jalbuena, Michael Viccil B. Junsay, and Aldrex L. Aviso. (2023). Technology Transfer and Business Development. Los Baños, Laguna, Philippines: University of the Philippines Los Baños Technology Transfer and Business Development Office (UPLB TTBD); and SEARCA. <https://www.searca.org/pubs/books?pid=571>
- Hill, Hal, Majah-Leah V. Ravago, and James A. Roumasset (eds.). 2022. Lessons from the Philippines and East Asia. ISEAS - Yusof Ishak Institute Singapore and SEARCA Philippines. <https://www.searca.org/pubs/books?pid=546>

### Journals (full issues and individual papers) (21)

- Asian Journal of Agriculture and Development (AJAD) 19(2). <https://doi.org/10.37801/ajad2022.19.2>
- Timmer, C. Peter. 2022. How to Manage a World Food Crisis: A Viewpoint. Asian Journal of Agriculture and Development 19(2): 1-10. <https://doi.org/10.37801/ajad2022.19.2.p1>
- Arya, Aziz R. 2022. Agricultural Transformation in Asia: Experiences and Emerging Challenges. Asian Journal of Agriculture and Development 19(2): 11-24. <https://doi.org/10.37801/ajad2022.19.2.2>
- Mat Jalaluddin, Nurzatil Sharleeza, and Rofina Yasmin Othman. 2022. Perceptions on the Challenges of Banana Cultivation and Bio-Based Technology Use Among Malaysian Smallholder Farmers. Asian Journal of Agriculture and Development 19(2): 25-34. <https://doi.org/10.37801/ajad2022.19.2.3>
- Manalo, Jaime A., IV, Louie Gerard F. Orcullo, Teresa Joi P. de Leon, and Marco Antonio M. Baltazar. 2022. What Happened to PhilRice's Microtiller? A Scaling Study. Asian Journal of Agriculture and Development 19(2): 35-50. <https://doi.org/10.37801/ajad2022.19.2.p2>
- Khanal, Nabin B., and Uttam Deb. 2022. Fish and Fishery Products Trade by India: Trends, Competitiveness and Comparative Advantage. Asian Journal of Agriculture and Development 19(2): 51-72. <https://doi.org/10.37801/ajad2022.19.2.5>
- Islam, Farhana, Atsushi Chitose, and Motoi Kusadokoro. 2022. "Gender Gap in Mobile-Banking Use in Rural Northern Bangladesh." Asian Journal of Agriculture and Development 19(2): 73-92. <https://doi.org/10.37801/ajad2022.19.2.6>
- Naseem, Anwar. 2022. Agri-Based Bioeconomy: Reintegrating Trans-Disciplinary Research and Sustainable Development Goals, a book review. Asian Journal of Agriculture and Development 19(2): 93-98. <https://doi.org/10.37801/ajad2022.19.2.b1>
- Asian Journal of Agriculture and Development (AJAD) 20(1). <https://doi.org/10.37801/ajad2023.20.1>
- Warr, Peter. 2023. "Economic Returns to Agricultural Research: Thailand and Indonesia." Asian Journal of Agriculture and Development 20(1): 1-12. <https://doi.org/10.37801/ajad2023.20.1.1>
- Teng, Paul, and Jose Ma Luis Montesclaros. 2023. "Agricultural Transformation for Small (Island and Developing) States." Asian Journal of Agriculture and Development 20(1): 13-30. <https://doi.org/10.37801/ajad2023.20.1.2>
- Malayang, Ben S., III, Gil S. Jacinto, Joan Regina Castro, Rodelio F. Subade, Ramon Benedicto A. Alampay, and Lourdes J. Cruz. 2023. Fisheries Management Areas in the West Philippine Sea and Their Heritage Values. Asian Journal of Agriculture and Development 20(1): 31-52. <https://doi.org/10.37801/ajad2023.20.1.p2>
- Vergara, Georgina V., Sinath Srey, Rica Joy Flor, et al. 2023. Enabling Adoption of Stress-Tolerant Rice Varieties and Associated Production Management Technologies by Smallholder Farmers in Cambodia. Asian Journal of Agriculture and Development 20(1): 53-70. <https://doi.org/10.37801/ajad2023.20.1.4>

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- Lone, Fayaz Ahmad, M. Imran Ganaie, Showkat A. Ganaie, M. Shafi Bhat, and Javeed Ahmad Rather. 2023. "Evaluation Criteria for the Suitability of Apple Cultivation in Kashmir Valley, India." *Asian Journal of Agriculture and Development* 20(1): 71-85. <https://doi.org/10.37801/ajad2023.20.1.p1>
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- Zapata, Normito, Jr. R., Janelle Ayne C. Sarmiento, and Mar B. Cruz. 2023. "Development of Smart Food Value Chain Intervention Models for the Milkfish Industry in Region 1, Philippines." *Asian Journal of Agriculture and Development* 20(1): 87-108. <https://doi.org/10.37801/ajad2023.20.1.6>
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- Bouis, Howarth E. Pro-Poor Development Policies: Lessons from the Philippines and East Asia, a book review. <https://doi.org/10.37801/ajad2023.20.1.b1>
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- Zheng, Yuhong, and Li Fu. 2023. Urban and Regional Agriculture: Building Resilient Food Systems, a book review. *Asian Journal of Agriculture and Development* 20(1): 115-117. <https://doi.org/10.37801/ajad2023.20.1.b2>
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- SABRAO Journal of Breeding and Genetics 54(3). <http://doi.org/10.54910/sabrao2022.54.3>
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- SABRAO Journal of Breeding and Genetics 54(4). <http://doi.org/10.54910/sabrao2022.54.4>
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- SABRAO Journal of Breeding and Genetics 54(5). <http://doi.org/10.54910/sabrao2022.54.5>
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- SABRAO Journal of Breeding and Genetics 55(1). <http://doi.org/10.54910/sabrao2023.55.1>
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- SABRAO Journal of Breeding and Genetics 55(2). <http://doi.org/10.54910/sabrao2023.55.2>
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- SABRAO Journal of Breeding and Genetics 55(3). <http://doi.org/10.54910/sabrao2023.55.3>
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- Discussion Papers (2)**
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- Solikhin, A., A. Fachrudin, B. Pakusadewo, T. Kurniawan, and V. Anbumozhi. 2023. Prospects of Nanotechnology in Indonesia's Food and Agriculture Sector: From Laboratory to Industry. SEARCA Discussion Paper Series 2021-1. Los Baños, Laguna, Philippines: SEARCA. <https://www.searca.org/pubs/discussion-papers?pid=566>
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- Man, D.M., N.V. Kien, T.D. Dung, T.P. Nguyen, and T.V.V. Linh. 2022. Livelihood Vulnerability and Adaptability of Coastal Communities to Saltwater Intrusion and Droughts in the Vietnamese Mekong Delta. SEARCA Discussion Paper Series 2021-4. Los Baños, Philippines: SEARCA. <https://www.searca.org/pubs/discussion-papers?pid=545>
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- Policy Papers, Policy Briefs and Agriculture and Development Notes (16)**
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- Bouis, Howarth. 2022. At the Forefront: Providing Leadership for the Innovation of Biofortification. SEARCA Agriculture and Development Notes 11-3. SEARCA: College, Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=538>
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- Custodio, K.Q., and M.A. Sombilla. 2023. Rural Transformation in the Philippines: A Development Agenda. SEARCA Policy Paper 2023-1. SEARCA: College, Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=565>
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- Phong, Le Thanh, Truong Ngoc Thuy, and Nguyen Van Kien. 2023. Traditional Rice-Based Farming Systems for Climate Change Adaptation in the Mekong Delta, Vietnam. SEARCA Agriculture and Development Notes 12-1. SEARCA: College, Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=557>
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- Darvin-De Torres, Bernice Anne C., Pedcris M. Orencio, and Ruth Jazrel M. Bandong. 2022. Enhancing the Public Policy Process for Family Farming through Grassroots Participation. SEARCA Policy Paper 2022-1. SEARCA: Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=534>
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- Agbagala, Ma. Lorelie U. Accelerating Impact Through a Responsive Regulatory Framework: the DOST-DA-DENR-DOH-DILG Joint Department Circular No. 1, Series of 2021. [https://searca.org/kris/resources\\_edit.php?id=549](https://searca.org/kris/resources_edit.php?id=549)
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- Agbagala, Ma. Lorelie U. To Regulate, or Not to Regulate, the Answer to the Question: The NCBP Policy on Plant Breeding Innovations or New Breeding Techniques. [https://searca.org/kris/resources\\_edit.php?id=550](https://searca.org/kris/resources_edit.php?id=550)
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- The Bounty of Bt: Stories of Success from Bt Corn Growers. <https://www.searca.org/pubs/briefs-notes?pid=558>
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- Not Missing the Chance: How Gm Maize Changed the Life of a Vietnamese Farmer and his Community. <https://www.searca.org/pubs/briefs-notes?pid=559>
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- In the Business of Uplifting Lives. <https://www.searca.org/pubs/briefs-notes?pid=560>
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- Gregorio, Glenn B., Barradas, Jerome, and Medina, Danellie Joy. 2023. We Can be Friends: Harvesting the Benefits of Coexistence Farming. USDA Biotech Outreach Program for the Judiciary. SEARCA Policy Brief. <https://www.searca.org/pubs/briefs-notes?pid=563>
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- Cao, Ernelea P. 2023. Modern Animal Biotechnology: Benefits, Future Directions, and Policy Recommendations. Policy Brief. <https://www.searca.org/pubs/briefs-notes?pid=564>
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- Translations (5)**
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- Institutions and Social Capital Approach to Promote Agricultural Productivity (Burmese). <https://www.searca.org/pubs/briefs-notes?pid=69>
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- Adoption of Good Agricultural Practices (GAP) in the Philippines: Challenges, issues, and policy imperatives (Burmese). <https://www.searca.org/pubs/briefs-notes?pid=209>
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- Determinants of Food Security of Vulnerable Rural Households at the Central Dry Zone Region of Myanmar (Burmese). <https://www.searca.org/pubs/briefs-notes?pid=415>
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- Impact of COVID-19 Pandemic on Agriculture Production in Southeast Asia: Reinforcing Transformative Change in Agricultural Food Systems (Burmese). <https://www.searca.org/pubs/briefs-notes?pid=468>
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- Water-Gender-Ethnicity Factors Affecting Ethnic Minority Participation and Decision Making in Water Management (Burmese). <https://www.searca.org/pubs/briefs-notes?pid=517>
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**Annex 16. SEAMEO SEARCA Conferences, Roundtables, Forums, and Meetings, FY 2022/2023**

Title of Activity	Venue and Date	Total No. of Participants	Country	Activity Partner	Main Speaker or Presenter
First International Conference School-plus-Home Gardens cum Biodiversity Enhancement Enterprises	Coron Palawan, Philippines 8-12 Nov 2022	45	Cambodia Indonesia Philippines Thailand United States Spain	Regalo ng Kilit Foundation, Inc.	Dr. Manny Reyes Dr. Julian Gonsalvez Dr. Leticia Afuang Ms. Anna Gale Vallez
35th UC Executive Board Meeting	Malang, Indonesia 25-26 Nov 2022	32	Indonesia Malaysia Philippines Thailand Japan Taiwan	Universitas Brawijaya, Indonesia	Presiding Officer: Dr. Ir. Moch. Sasmito Djati, Vice Rectors for Planning and Cooperation, UB
4th UC Faculty Forum	Nueva Ecija, Philippines 5-6 Dec 2022	100+	Indonesia Malaysia Philippines Thailand Japan Taiwan Canada	Central Luzon State University, Philippines	Prof. Robert C. Kemarait, Jr., University of Georgia, USA (plenary speaker) with 37 other paper presenters from the UC members
Stakeholders Forum/ Roundtable Discussion Series for Sustainable and Agriculture Systems in Southeast Asia: Day 2 - Promoting Carbon Farming in Agriculture in Southeast Asia through Regional Cooperation Back-to-Back with RTLD	Manila, Philippines 18-19 Apr 2023	Around 542 (95 onsite, 447 online via Zoom)	Southeast Asian countries	Bangko Sentral ng Pilipinas (BSP)	Mr. Nir Balzam, Embassy of Israel; Dr. Glenn Gregorio, SEARCA; Dr. Nur Azura binti Adam, SEARCA; Dr. V. Bruce Tolentino, BSP; Ms. Chuchi Fonacier, BSP; Dr. Nerlita Manalili, Technical Expert, Developing ASEAN Guidelines for Accelerating Transformation of Food and Agriculture through Digital Technologies and Innovations; Ms. Lyn Javier Assistant, BSP; Ms. Alicia Ilaga Director, Philippine Department of Agriculture (DA); Hon. Mark Dennis Joven, Philippine Department of Finance (DOF)
Regional Policy Forum on Farms to Schools: Towards Sustainable and Inclusive School-based Food and Nutrition Programs in SEA	Alabang, Muntinlupa, Philippines 24-25 Apr 2023	TOTAL (Hybrid): 223	ASEAN ++	AFA	Ms. Ma. Estrella Penunia, AFA; Ms. Margarita Consolacion Ballesteros, DepEd; Ms. Lina Rospita, ASEAN Secretariat; Dr. Maria Antonia Tuazon, FAO-RAP; Mr. Dipayan Bhattacharyya, WFP-PH; Dr. Miriam Caryl Carada, UPLB; Dr. Jesus Fernandez, SEAMEO RECFON; Dr. Kitti Sranacharoenpong, Mahidol University; Mr. Nov Saovorak, MOEYS; Mr. Houmphanh Keo Ounkham, MOES; Mr. Dexter A. Galban, DepEd; Mr. Pierre Ferrand, FAO; Ms. Mercedes Castillo, AgriCooPh; Mr. Frank Roy M. Ribo, KAMMPIL; Mr. Chhong Sopha, FNN; Ms. Chintanaphone Keovichith, LFN; Ms. Ma. Elena V. Rebagay, AFA; Ms. Irish P. Baguilat, AFA; Ms. Maripaz Bernice A. Galang, AFA; Datuk Dr. Habibah Abdul Rahim, SEAMES
8th UC Graduate Forum	Chiang Mai, Thailand 18-19 May 2023	75	Indonesia Malaysia Philippines Thailand Japan Taiwan	Maejo University	Maejo University: Assoc. Prof. Dr. Napat Ruangnapakul; Assoc Prof. Dr. Siriwat Sakthonwasee; Assoc. Prof. Dr. Preeda Nathewet; and 54 students from UC members

Title of Activity	Venue and Date	Total No. of Participants	Country	Activity Partner	Main Speaker or Presenter
<b>National (13)</b>					
Inception Meeting with TESDA for the Evaluation of PAFSE Project	Zoom 22 Jul 2022	10	Philippines	TESDA Central Office	Prof. Paul Ramirez Dr. Rodmyr Datoon
High-Level Policy Forum on Rural Transformation in the Philippines	Quezon City, Philippines and Zoom 8-9 Sep 2022	97	Philippines	IFAD and IFPRI	Usec. Rosemarie Edillon, NEDA; Assoc. Prof. Karen Quillooy-Custodio, UPLB; Dr. Agham Cuevas, UPLB-CEM; Ms. Marlene Ramirez, ASIADHRRA; Dr. Roehlano Briones, PIDS; Mr. Abdelkarim Sma IFAD; Dr. Devesh Roy, IFPRI; Dr. Pratap Singh BIRTHAL, ICAR; Samarendu Mohanty, CIP
Rice Straw Biogas Hub Project Meeting with Innovate UK, Aston University, Straw Innovation, Inc. and Koolmill	SEARCA 21 Sep 2022	12	Philippines Great Britain	UK, Aston University, Straw Innovation, Inc. and Koolmill	Craig Jameison, CEO-Straw Innovation; Dr. Victoria Espaldon, Project Leader; Dr. Jessica Villanueva-Peyraube, Project Consultant; Dr. Victor Luis, Project Consultant; Dr. Romeo Labios, Project Consultant
Project SAYA Presentation to Onion Farmers	Zoom 28 Oct 2022	15	Philippines	Jollibee Group Foundation, Inc.	Dr. Ronaldo Saludes
Inception Meeting of the DA BAR funded project titled "Process Documentation and Assessment of the implementation of the DA- BAR's Technology Business Incubation Program"	SEARCA 2 Nov 2022	20	Philippines	DA-BAR, UPLB	Mr. Joell Lales; Asst. Prof. Paul Ramirez
Forum on Philippine Biotech Regulations (National Biotechnology Week 2022)	Pasay City, Philippines 21 Nov 2022	54	Philippines	Biotechnology Coalition of the Philippines (BCP), ISAAA, Inc.	Ms. Julieta Fe L. Estacio, NCBP; Ms. Ma. Lorelie U. Agbagala, NCBP; Ms. Geronima P. Eusebio, DA- BPI
Technical Investors' Forum on Biotechnology	Pasay City 22 Nov 2022	80 (hybrid)	Philippines	DA-Biotechnology Program Office, IRRI, BCP	Dr. Sarah Evanega
Project Presentation: Program on Accelerating Farm School Establishment (PAFSE)	Virtual 8 Dec 2022	10	Philippines	TESDA	Asst. Prof. Paul Ramirez Dr. Rodmyr Datoon
SEARCA Intellectual Property and Knowledge and Technology Transfer (SIPAKTT) Guidebook Final Presentation	Los Baños, Laguna, Philippines 28 Mar 2023	17	Philippines	ATOP	Atty. Christopher Cruz
Roundtable Discussion on Rice Straw Innovation for Bio-energy, Batch 1 - Laguna	SEARCA 12 Apr 2023	28	Philippines	Straw Innovations, Aston University, Koolmill	Dr. Victoria Espaldon, Project Leader; Dr. Jessica Villanueva-Peyraube, Project Consultant; Dr. Victor Luis- Project Consultant; Dr. Romeo Labios, Project Consultant
Roundtable Discussion on Rice Straw Innovation for Bio-energy, Batch 2 - Nueva Ecija	Nueva Ecija, Philippines 14 Apr 2023	38	Philippines	Straw Innovations, Aston University, Koolmill	Dr. Victoria Espaldon, Project Leader; Dr. Jessica Villanueva-Peyraube, Project Consultant; Dr. Victor Luis, Project Consultant; Dr. Romeo Labios, Project Consultant
Inception Meeting of the DA-BAR project titled Benchmarking of the Agricultural Research for Development (R4D) Management System with Selected Asian Countries	SEARCA, and Zoom 24 Apr 2023	11 (Onsite) 1 (Online)	Philippines	DA-BAR	Dr. Merlyne Paunlagui, Study Leader; Ms. Dulce Elazegui, Study Leader; Ms. Stella Faye Estrella, SEARCA

Title of Activity	Venue and Date	Total No. of Participants	Country	Activity Partner	Main Speaker or Presenter
Learning Alliance Workshop Group Launch	Manila, Philippines 27 Jun 2023	45	Philippines	Grow Asia-PPSA	Dr. Nur Azura Adam, Ms. Amy Melissa Chua, Ms. Reianne P. Quillooy, Mr. Jerome Cayton C. Barradas

## Annex 17. Publications and Paper Presented by SEAMEO SEARCA Staff, Alumni, and Scholars, FY 2022/2023

### Policy Briefs and Agriculture and Development Notes (2)

#### SEARCA Staff

Darvin-De Torres, Bernice Anne C., Orencio, Pedcris M. and Bandong, Ruth Jazrel M. 2022. Enhancing the Public Policy Process for Family Farming through Grassroots Participation. SEARCA Policy Paper 2022-1. SEARCA, Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=534>

Gregorio, Glenn B., Barradas, Jerome, and Medina, Danellie Joy. 2023. We Can be Friends: Harvesting the Benefits of Coexistence Farming. SEARCA Policy Brief. Philippine Agriculture and Fisheries Biotechnology Program and International Service for the Acquisition of Agri-biotech Applications (ISAAA) Inc., and SEARCA, Los Baños, Laguna, Philippines. <https://www.searca.org/pubs/briefs-notes?pid=563>

#### Journal Articles (37)

#### SEARCA Scholars and Alumni

Kurnianto, Heri. 2022. Prevalence, Risk Factors and Infection Intensity of Fasciolosis in Dairy Cattle in Boyolali, Indonesia. *Vet World* 15(6):1438-1448. [10.14202/vetworld.2022.1438-1448](https://doi.org/10.14202/vetworld.2022.1438-1448)

Da Costa, Delfim. 2022. Effects of Slash-and-Burn Practices on Soil Quality at Different Landscape Positions in the Raumoco Watershed, Municipality of Lautem, Timor-Leste. *Open Journal of Ecology* 12(7). [https://www.scirp.org/pdf/oje\\_2022072614260599.pdf](https://www.scirp.org/pdf/oje_2022072614260599.pdf)

Lailatul, Rahmah Nur. 2023. Optimization of Phenolic Compounds and Antioxidant Extraction from Piper betle Linn. Leaves Using Pressurized Hot Water. *Journal of Applied Science and Engineering* 26(2). [https://doi.org/10.6180/jase.202302\\_26\(2\).0003](https://doi.org/10.6180/jase.202302_26(2).0003)

Anggraini, Erise, Wei Hong Lau, Ganesan Vadmalai, Lih Ling Kong, Mazidah Mat. 2022. Review: The effect and possible mitigation of UV radiation on baculoviruses as bioinsecticides. *Biodiversitas* 23(7): 3721-3735. <https://doi.org/10.13057/biodiv/d230749>

Rozman, A.S.; Hashim, N.; Maringgal, B.; Abdan, K. A. 2022. A Comprehensive Review of Stingless Bee Products: Phytochemical Composition and Beneficial Properties of Honey, Propolis, and Pollen. *Applied Sciences* 12(13):6370. <https://doi.org/10.3390/app12136370>

Julia Su Chen Ng, Colas Chervier, Marc Ancrenaz, Daisuke Naito, Alain Karsenty. 2022. Recent forest and land-use policy changes in Sabah, Malaysian Borneo: Are they truly transformational? *Land Use Policy* 121. <https://doi.org/10.1016/j.landusepol.2022.106308>

Junaidi, Tri Rini Nuringtyas, Anne Clement-Vidal, Albert Flori, Afdholiatu Syafaah, Fetrina Oktavia, Sigit Ismawanto, Martini Aji, Siti Subandiyah, Pascal Montoro. 2022. Analysis of reduced and oxidized antioxidants in Hevea brasiliensis latex reveals new insights into the regulation of antioxidants in response to harvesting stress and tapping panel dryness. *Heliyon* 8(7). <https://doi.org/10.1016/j.heliyon.2022.e09840>

Junaidi, Anne Clément-Vidal, Tri Rini Nuringtyas, Eric Gohet, Siti Subandiyah, Pascal Montoro. 2022. A Meta-Analysis of Latex Physiology Studies Reveals Limited Adoption and Difficulties to Interpret Some Latex Diagnosis Parameters in Hevea brasiliensis. *HAYATI Journal of Biosciences* 30(2): 358-371. <https://doi.org/10.4308/hjb.30.2.358-371>

Kenny Oriol A. Olana, Ana Marquiza M. Quilicot and Eugene B. Lañada. 2022. Candida albicans in backyard chicken flocks raised in a small community in Leyte, Philippines: Prevalence and risk factors associated. *Annals of Tropical Research* 44(1): 114-122. <https://doi.org/10.32945/atr4419.2022>

Chooi Lin Phooi, Elisa Azura Azman, Roslan Ismail, Jasmin Arif Shah, and Evelyn Shin Rou Koay. 2022. Food Waste Behaviour and Awareness of Malaysian. *Hindawi Scientifica*. <https://doi.org/10.1155/2022/6729248>

H. Rohasmizah, M. Azizah. 2022. Pectin-based edible coatings and nanoemulsion for the preservation of fruits and vegetables: A review. *Applied Food Research* 2(2). <https://doi.org/10.1016/j.afres.2022.100221>

Gita Addelia Nevara, Sharifah Kharidah Syed Muhammad, Norhasnida Zawawi, Nor Afizah Mustapha, Roselina Karim. 2022. Alternative Dietary Fiber Sources from Kenaf (Hibiscus cannabinus L.) Seeds and Their By-products. *Jurnal Gizi Pangan* 17(3):167-176. <http://journal.ipb.ac.id/index.php/jgizipangan>

Andi Nur Cahyo, Rudi Hari Murti, Eka T.S. Putra, Fetrina Oktavia, Sigit Ismawanto, Pierre Mournet, Denis Fabre, Pascal Montoro. 2022. Screening and QTLs detection for drought factor index trait in rubber (Hevea brasiliensis Müll. Arg.). *Industrial Crops and Products* 190. <https://doi.org/10.1016/j.indcrop.2022.115894>

Nolos R.C., Zamroni A., Evina K.P. Drivers of Deforestation and Forest Degradation in Palawan, Philippines: An Analysis Using Social-Ecological Systems (SES) and Institutional Analysis and Development (IAD) Approaches. *Geography, Environment, Sustainability* 15(4): 44-56. <https://doi.org/10.24057/2071-9388-2022-081>

Trisnaning, P., Zamroni, Akhmad, Sugarbo, Oky, Nur Eka, Prasetya, Haris, Sagala, S., Hardiansyah, Muhammad. 2022. Quality of surface water due to sand mining activity: a case study from the Progo River, Daerah Istimewa Yogyakarta Province, Indonesia. *IOP Conference Series: Earth and Environmental Science*. [10.1088/1755-1315/1098/1/012031](https://doi.org/10.1088/1755-1315/1098/1/012031)

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- Kenny Oriol A. Olana and Loinda R. Baldrias. 2022. Very Low Seroprevalence of Porcine Reproductive and Respiratory Syndrome among Backyard Pigs in Leyte Province and Factors associated with S/P Ratios. *Mindanao Journal of Science and Technology* 20(2): 190-205.
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- Siti Norazura Jamal, Belal J. Muhialdin, Noor Baity Saidi, Lai Kok Song, Mohd Termizi Yusof and Dhilia Udie Lamasudin. 2022. The effect of lactic acid fermentation of *Bactronophorus thoracites* on antimicrobial activity against rice pathogens. *Malaysian Journal of Microbiology* 18(6): 592-601. <http://dx.doi.org/10.21161/mjm.221499>
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- Jamal, S. and Muhialdin, Belal and Saidi, Noor Baity and Song, L. and Yusof, Mohd. Termizi and Lamasudin, Dhilia Udie. (2022). The effect of lactic acid fermentation of *Bactronophorus thoracites* on antimicrobial activity against rice pathogens. *Malaysian Journal of Microbiology*. 10.21161/mjm.221499.
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- R Widyastuti, NMD Haq, DN Pristihadi, H Maheshwari, C Sumantri, A Boediono. 2022. The Viabilities of Freeze-Thaw Pasundan-Bull Sperms After a Short-term Exposure to Media with Different pHs. *Tropical Animal Science Journal*. 45(3):270-276.
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- Manuel Da Costa et.al. 2022. The presence antibiotic resistance of *Salmonella* spp. in chicken meat at Dili City Market of Timor-Leste. *Journal of Veterinary Practitioner* 23: 258.
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- Tata, M.H.L., Puspanti, A., Widuri, S.A., Noorcahyati, Sitepu, B.S., Mawazin. 2022. Bajakah and Akar Kuning to Support Bioprospecting of Traditional Medicine from Peat Swamp Forests: Prospect and Challenges. *Jurnal Manajemen Hutan Tropika* 28(2): 113 -119.
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- Shampazuraini, S., Martini, M. Y., Mohd Fauzi, R., Zulkefly, S., Mark, B., and Isharuddin, M. 2022. Yield and intercropping indices of sweet corn and okra grown in young rubber plantation. *Emirates Journal of Food and Agriculture* 34(5):358-368.
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- Mohd Azlin Mohd Nor, Salit Mohd Sapuan, Mohd Zuhri Mohamed Yusoff, Edi Syams Zainudin. 2022. Mechanical, thermal and morphological properties of woven kenaf fiber reinforced polylactic acid (PLA) composites. *Fibers and Polymers* 23 10): 2875-2884.
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- Natalino de Araújo, Diomedes A. Racelis, Roberto G. Visco, Rodel D. Lasco, and Analyn L. Codilan. 2023. Energy Use in the Management of Selected Coffee-based Agroforestry Farms in Timor-Leste. *IOSR Journal of Environmental Science, Toxicology and Food Technology* 17(4): 16-24. 10.9790/2402-1704011624
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- Satriagasa, M.C.; Tongdeenok, P.; Kaewjampa, N. 2023. Assessing the Implication of Climate Change to Forecast Future Flood Using SWAT and HEC-RAS Model under CMIP5 Climate Projection in Upper Nan Watershed, Thailand. *Sustainability* 15(6): 5276. <https://doi.org/10.3390/su15065276>
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- Anggraini E., Vadamalai G., Kong L.L., Mat M., Lau W.H. Complete Genome Sequences of *Oryctes rhinoceros* nudivirus Strains Detected in Haplotype-G *Oryctes rhinoceros* from Johor, Malaysia. *Microbiol Resour Announc* 12(3). 10.1128/mra.00019-23
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- Natalino de Araújo, Menzuela Ancheta-Comora, Edilyn Lopez and Charles Frank Caramihan, Garry Marapao. 2023. Urban Heat Island (Uhi) Effect: The Rise of Land Surface Temperature in Cebu City, Philippines. *American Academic Scientific Research Journal for Engineering, Technology, and Sciences* 93(1): 9-20.
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- Agostinho da C. Moniz, Natalino de Araújo, Donata O. de Araujo. 2023. Effect of Organic Matter on Growth of Arabica Coffe (Coffea Arabica) Variety. *American Academic Scientific Research Journal for Engineering, Technology, and Sciences* 92 1): 199-203.
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- Andrea S. Asih, Akhmad Zamroni, Saurina T. Sagala, Keshia N. Tingson, and Adam S. Putra. 2023. Heavy Metals in Surface Sediments of the Coastal Area Around Daerah Istimewa Yogyakarta, Indonesia: Their Relations to Land-Use Types. *Iraqi Geological Journal* 56(1E): 156-168. <https://doi.org/10.46717/igj.56.1E.11ms-2023-5-21>
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- Pengly Koun, Pierre-Antoine Vernet, Titouan Filloux, Veng Sar, Vang Seng, Porntip Srimongkol, Phakphoom Tantachasatid, Reaksmy Sen, Sambo Pheap, Florent Tivet, Alexis Thoumazeau. 2023. Early effects of conservation agriculture on soil organic carbon dynamics of Mollisols in Cambodia. *Soil Use Manage* 40: 1-14. [wileyonlinelibrary.com/journal/sum](https://www.wileyonlinelibrary.com/journal/sum)
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- Julia Su Chen Ng, Colas Chervier, Jean-Marc Roda, Zaiton Samdin and Rachel Carmenta. 2023. Understanding Stakeholders' Perspectives on the Collaborative Governance Challenges in Sabah's (Malaysian Borneo) Jurisdictional Approach. *The Journal of Development Studies* 59(11): 1699-1717. <https://doi.org/10.1080/00220388.2023.2222212>
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- Sokun Khoeun, Joseph S. Masangkay, Billy P. Divina and Joseph P. Olarve. 2023. Histopathological Characterization of Lungs from Slaughtered Swine in Selected Abattoirs in Laguna, Philippines and Its Relation to Serological Profiling for Porcine Pleuropneumonia (PPP), Porcine Reproductive and Respiratory Syndrome (PRRS) and Enzootic Pneumonia (EP). *Journal of Environmental Science and Engineering B* 12: 96-103. <https://doi.org/10.17265/2162-5263/2023.02.005>
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- Phoukeo Saokhamkeo and Rapee Dokmaithes and Jamnian Chompoo and Cherdpong Kheerajitt. 2023. Factors influencing the practice of commercial rice production for food security in Vientiane capital, Laos. *Asian Journal of Agriculture and Rural Development, Asian Economic and Social Society* 13(2): 113-119. <https://doi.org/10.55493/5005.v13i2.4777>
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### Conference Paper Presented (1)

#### SEARCA Staff

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- Anna Gale C. Vallez, Gerlie T. Tatlonghari, Donna Bae N. Malayang. Attaining Community Food Security through School-plus-Home Gardening in the Philippines. 8 Mar 2023, SEAMEO Centre Policy Research Network (CPRN) Summit 2023, Penang, Malaysia.
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**Annex 18a. In-house Orientation, Seminars, and Workshops for SEAMEO SEARCA Staff, FY 2022/2023**

Title of Activity	Venue and Date	No. of Participating Staff
<b><i>In-House Training Session</i></b>		
Refresher and Orientation of Human Resource Integrated System	MS Teams, 22, 23, 26, 25, 30, 31 Aug 2022	69
Social and Business Etiquette for Global Ambassadors	SEARCA, 15-16 Nov 2022	38
Writing Netiquette (Blending of e- Communication Application)	SEARCA and SEARCA Residence Hotel; 25 Nov and 6, 9, 15 Dec 2022	91
Executive Coaching Program	SEARCA, 17 Feb - 8 May 2023	7
Workshop for the development of SIPAKTT Guidelines	SEARCA and Zoom, 24 May - 6 Sep 2022	7
<b><i>Virtual Health and Wellness Seminar</i></b>		
Work Life Balance and Wellness in the Workplace	MS Teams, 4 Nov 2022	60
Healthy Hearts and Eyes	MS Teams, 17 Feb 2023	96
Hypertension, Cholesterol Management and Skin Health	MS Teams, 15 May 2023	94

**Annex 18b. SEARCA Staff Development and Professional Enrichment, FY 2022/2023**

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Almazan, Bernisse Sabina	Hitting targets through innovative collection and receivable strategies	Zoom, 31 Aug 2022	Participant
Angeles, Darlyn	Workshop on Theory-based Evaluation for the Program on Accelerating Farm School Establishment (PAFSE)	SEARCA 13 Sep 2022	Organizer and Facilitator
	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
Antonio, Amy	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
Artates, Fernando	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Bantayan, Rosario	2022 Regional multi-stakeholder learning conference for the Research project: Climate-Smart Villages (CSVs) as Platforms to Resilience Building, Women Empowerment, Equity, and Sustainable Food Systems	Silang, Cavite, Philippines 3 Oct 2022	Participant
	Asia-Pacific Symposium on Agrifood Systems Transformation	Virtual, 5-7 Oct 2023	Participant
Barradas, Jerome Cayton	Agricultural Biotechnology: Resource Sharing, Experiences, and Lessons Learned	Zoom, 16-17 Aug 2022	Participant
	ASEAN Food and Agriculture Road to COP27/Manila Workshop	Pasay City, Philippines 27 Sep 2022	Participant
	Animal Biotechnology Opportunities and Regulations in the Philippines	Zoom, 29 Sep 2022	Participant
	16th Pan-Asia Farmers Exchange Program	Clark Freeport, Mabalacat, Pampanga 10-14 Oct 2022	Resource Person
	Grow Asia Forum 2022	Singapore, 18 Oct 2022	Participant
	Enviocon: Biotechnologies for a Healthy Environment	Pasay City, Philippines 23 Nov 2022	Participant
	DOST National Science and Technology Week	Pasay City, Philippines 24-25 Nov 2022	Participant
	Inclusive Value Chains Leadership Network In-Person Workshop	Makati City, Philippines 13 Dec 2022	Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Batangantang, Imelda	International Conference on Open Systems and Sustainable Agri-Machinery Assembly and Manufacturing (OSSAAM)	Bacolod City, Philippines 5-6 Jul 2022	Participant
	1st Laguna Robot LEGOlympics 2022	Los Baños, Laguna, Philippines 15 Jul 2022	Facilitator
	Workshop on Theory-based Evaluation for the Program on Accelerating Farm School Establishment (PAFSE)	SEARCA, 13 Sep 2022	Organizer and Facilitator
	60th Philippine Economic Society (PES) Annual Meeting and Conference with the theme From Bouncing Back to Leaping Forward Towards a Future Ready Philippines	Philippines, 9-11 Nov 2022	Participant
Baticados, Glenn	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
	Regional Agri-Aqua Innovation System Enhancement (RAISE) Program	SEARCA 10 Aug 2022	Speaker
	Orientation Meeting for DA External Pool of Experts for R4D Programs	Quezon City, Philippines 23 Aug 2022	External Expert
	Higher Education Institution Readiness for Innovation and Technopreneurship (HEIRIT) Preparatory Program for Starting TBIs for 2022	Department of Science and Technology - Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD) 16 Sep 2022	Technical Panel Member
	Conduct of Progress Review of Technology Business Incubation Projects	Quezon City, Philippines 20 Sep 2022	Technical Panel Member
	21st Philippines Robotics Olympiad	Quezon City, Philippines 22-23 Sep 2022	Judge
	DOST PCIEERD TP Evaluation of TBI Proposals	DOST PCIEERD, 11-14 Oct 2022	Technical Panel Member
	World Food Day Colloquium	Stuttgart, Germany 18-20 Oct 2022	Representative
	Hyper Interdisciplinary Conference Session on Powering with AI and Metrics: Enhancing Hybrid Energy Systems	Pasay City, Philippines 5 Nov 2022	Panelist
	Establishing the Spin-Off Co.	Roxas City, Capiz, Philippines 10-11 Nov 2022	Resource Speaker
	Advanced Intellectual Property Licensing Course	Manila, Philippines 18 Nov 2022	Resource Speaker
	Leveraging Digital Technologies and Experiences for Agricultural and Rural Development in Asia and the Pacific (IFAD-ADB Joint Symposium in Conjunction with MAFRA)	Seoul, Republic of Korea 23-24 Nov 2022	Discussant
	Workshop on Pathways to Net Zero for Agrifood and Land Use Systems in Asia	Bangkok, Thailand, 14-16 Dec 2022	Participant
Cabardo, Christopher	International Conference on Open Systems and Sustainable Agri-Machinery Assembly and Manufacturing (OSSAAM)	Bacolod City, Philippines 5-6 Jul 2022	Speaker
	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
	21st Philippines Robotics Olympiad	Quezon City, Philippines 22-23 Sep 2022	Representative
	Prior Art Searching and Patent Drafting for Software Patents	SEARCA 7 Oct 2022	Participant
	World Robot Olympiad	Dortmund, Germany 17-19 Nov 2022	Judge

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Cadiz, Monalinda	Online Training on Scientific Writing	Zoom, 15 Aug 2022	Resource Person
	AFNR Consultation Workshop	SEARCA 1 Mar 2023	Participant
	SEARCA Seed Fund for Research and Training (SFRT) Grant Inception Meeting	Zoom, 15 May 2023	Resource Person
Caguioa, Regine	The Impact of Quiet Quitting by Sprout Solutions	Zoom, 21 Sep 2022	Participant
	Philippine HR Expo and Symposium 2022	Manila, Philippines 23-24 Nov 2022	Participant
Calingasan, Jam Amily	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Carandang, Loise Ann	Asia-Pacific Symposium on Agrifood Systems Transformation	Virtual, 5-7 Oct 2022	Participant
	PREZODE Side Event at the FAO Science and Innovation Forum	Virtual, 13 Oct 2022	Participant
Carlos, Lichelle Dara	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
	2022 Annual Philippine-American Academy of Science and Engineering Meeting and Symposium	Virtual, 11-14 Oct 2022	Participant and Poster Presenter
	Agham at Teknolohiya: Kabalik sa Maunlad at Matatag na Kinabukasan National and Science Technology Week, University of the Philippines Baguio	Virtual, 25 Nov 2022	Resource Speaker
	LINC Virtual Startup Ecosystem Mapping in Laguna, Batangas State University	Virtual, 29 Nov 2022	Participant
	54th Bureau of Plant Industry Council Meeting for Presentation on Seed industry Development Program	Virtual, 16 Dec 2022	Resource Person
	PH-Israel Tech Innovation Showcase: Food of the Future: Behind the Scenes of Israel's Innovative Agriculture	ZOOM, 17 Jan2023	Participant
	PH-Israel Tech Innovation Showcase: Net-Zero Cities: Mainstreaming Clean Tech for a Climate-resilient Future	ZOOM, 2 Feb 2023	Participant
Corales, Ma. Christina	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
	Training-Workshop on Halal Slaughtering and Certification	Putrajaya, Malaysia 23-25 Aug 2022	Organizer and Presenter
	Workshop on Theory-based Evaluation for the Program on Accelerating Farm School Establishment (PAFSE)	SEARCA 13 Sep 2022	Organizer and Facilitator
	First International Conference on School-plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1)	Coron, Palawan, Philippines 8-12 Nov 2022	Presenter
	Climate Investment Forum	Quezon City, Philippines 21 Nov 2022	Participant
	Sustainability Forum PH 2022	Virtual, 28 Nov 2022	Participant
	EEG-Philippines 2nd National Conference	ZOOM, 22-24 Mar 2023	Presenter
	AGRICONNECT 2023	Bangkok, Thailand 24-25 May 2023	Participant
Cuaresma, Maria Cristeta	6th Virtual Summer Course Program: Multidisciplinary Approach: Essential for Sustainable Environment-Friendly Development organized by The Faculty of Animal Science of Universitas Gadjah Mada (UGM)	Zoom, 13-26 Jul 2022	Speaker
	Regional Training Workshop on Halal Slaughtering and Certification co-organized with UPM	Putrajaya, Malaysia 23-25 Aug 2022	Participant
	Info-session on SEARCA Scholarships	Zoom, 24 Sep 2022	Speaker
	Roundtable Discussion on Sustainable Food and Agriculture Systems in Southeast Asia	Manila City, Philippines 18-19 Apr 2023	Moderator

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
De Torres, Bernice Anne	IFAD Philippines Gender Network General Assembly	Davao City, Philippines 12-13 Dec 2022	Participant and Presenter
	IFAD Philippines Annual Country Programme Review	Davao City, Philippines 14-15 Dec 2022	Participant
	Launch of Myanmar National Pulses Roadmap	Nay Pyi Taw, Myanmar 14 Mar 2023	Representative
	AGRICONNECT 2023	Bangkok, Thailand 24-25 May 2023	Participant
Domingo, Leah Lyn	SEAMEO Knowledge Management (KM) Learning and Sharing Forum	Virtual, 7 Jul 2022	Participant
	Post-SONA Economic Briefing	Pasay City, Philippines 26 Jul 2022	Participant
	2022 National Public Relations Congress	Makati City, Philippines 1-2 Sep 2022	Participant
	Philippine Economic Society (PES) 60th Annual Meeting and Conference	Manila City, Philippines 9 Nov 2022	Participant
	Economic Forecast for 2023	Makati City, Philippines 9 Nov 2022	Participant
	52nd SEAMEO Council Conference	Mandaluyong City, Philippines 8-9 Feb 2023	Delegate and Awardee
	Sonic Branding: The Power of Sound in Communication	Zoom, 22 Feb 2023	Participant
	Economic Briefing: The Philippine Economy, among the Fastest Growing in the Indo-Pacific Region	Canlubang, Laguna, Philippines 23 Feb 2023	Participant
	Nordic Innovation Forum: Redefining Technology Trends	Makati City, Philippines 22 Mar 2023	Participant
	Roundtable Discussion on Sustainable Food and Agriculture Systems	Pasay City, Philippines 18-19 Apr 2023	Organizer
	Webinar on How Technology is Shaping Public Relations with Experts from Europe and Africa	Zoom, 25 May 2023	Participant
	Webinar: How Technology is Shaping Public Relations with Experts from India and Asia Pacific	Zoom, 30 May 2023	Participant
	Thailand Regional Agriculture Innovation Network (RAIN) Launch and Orientation	Bangkok, Thailand 21 Jun 2023	Participant
	Business Continuity Foundation Course	Zoom, 25-26 Nov 2022	Participant
Dumaraos, Renante	PECB ISO/IEC ISO 27001:2022 Information Security Management Systems Lead Auditor	Zoom, 20-24 Feb 2023	Participant
Estareja, Zara Mae	National Academy of Science and Technology (NAST) 44th Annual Scientific Meeting	Manila City, Philippines 14 Jul 2022	Exhibitor
	Essentials of Social Media Management: Amplify your Brand and Engage your Market (Inquirer Academy)	Online, 5-6 Sep 2022	Participant
	54th Council Meeting Presentation on "Seed industry Development Program", Bureau of Plant Industry	Virtual, 16 Dec 2022	Presenter
	International Ecotourism Travel Mart (IETM) 2023	Silang, Cavite, Philippines 29-31 Mar 2023	Exhibitor
Felix, Nathan	Knowledge Co-Creation Program (Young Leaders): Agricultural and Rural Development (Farming Experience) funded by the Japan International Cooperation Agency (JICA)	Virtual, 19 Jul - 5 Aug 2022	Participant
	2022 National Public Relations Congress by the Public Relations Society of the Philippines (PRSP)	Makati City, Philippines 1-2 Sep 2022	Participant
	Training of Trainers: Learning from the Best Communication and Partnership Practices of #Y4AGRI by the Albay Young Farmer's Program (AYFP)	Albay, Philippines 21 Sep 2022	Resource Speaker



Name of Participant	Title of Activity	Venue and Date	Nature of Participation
	CCComDev Webinar on Advancing Rural Communication Services for Family Farming by the UPLB College of Development Communication ComDev Asia	Virtual, 16 Dec 2022	Participant
	6th Session of the Webinar Series on Nanotechnology: Empowering Young Filipino Researchers for an Emerging Technology Ready Philippines by Nanohubs	Virtual, 20 Jan 2023	Participant
	The AI Revolution in Media and Communication: Content Creation, News Production and Social Media by the Philippines Communication Society and TVUP	Virtual, 29 Mar 2023	Participant
Genosa, Eidelmine Elizabeth	How to Overcome Unconscious Bias in the Workplace	Zoom, 12 Jul 2022	Participant
	HR Forum 2022	Makati City, Philippines 28 Oct 2022	Participant
	Cyberbullying in the Workplace and what HR Can Do	Zoom, 16 Nov 2022	Participant
	Philippine HR Expo and Symposium 2022	Manila City, Philippines, 23-24 Nov 2022	Participant
Gilbuena, Gilbert	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Gonzales, Pauline	Virtual Agribusiness Opportunities Forum on Coconut	Zoom, 4-6 Oct 2022	Participant
Gregorio, Glenn	Roundtable Discussion on Sustainable Food and Agriculture Systems in Southeast Asia	Manila City, Philippines 18-19 Apr 2023	Plenary Speaker and Participant
	Roundtable Discussion by the Embassy of Canada	Manila City, Philippines 9 May 2023	Participant
	The Outstanding Young Men Impact Summit	Sta. Rosa, Laguna, Philippines 13 May 2023	Participant
	UN ESCAP UN ESCAP Session on Connecting Local, National and Regional Strategies to Achieve Carbon Neutrality in Asia and the Pacific	Thailand 16 May 2023	Participant
	International Rice Congress 2023 High-Level Advisory Committee call	Zoom, 17 May 2023	Participant
	8th University Consortium Graduate Forum (UCGF) themed "Future of Agriculture Sustainability: Organic Intelligent Agriculture"	Chang Mai, Thailand 18-19 May 2023	Participant
	Towards the Wise Use of Bioresources: From Basic Science to Industrial Applications organized by AAACU, Nagoya University and National Institute of Genetics (NIG)	Japan, 31 May 2023	Participant
	RAIN Launch and Orientation	Thailand, 21 Jun 2023	Participant
	Regional Workshop on Mapping the Extent of Curricular Integration of One Health Concepts in Basic Education in Southeast Asia organized by SEAMEO Tropical Medicine and Public Health (TROPMED) Network, the Southeast Asia One Health University Network (SEAOHUN)	Bangkok, Thailand 22-23 Jun 2023	Participant
Hedreyda, Joseph Matthew	International Ecotourism Travel Mart (IETM) 2023	Silang, Cavite, Philippines 29-31 Mar 2023	Exhibitor
Jalotjot, Zacyl	Seminar on Future-Proofing Philippine Communities: A Multisectoral Dialogue on Bridging Climate Knowledge to Action	Zoom, 12 Oct 2022	Participant
	PES Conference themed From Bouncing Back to Leaping Forward Towards a Future Ready Philippines	Quezon City, Philippines 9 Nov 2022,	Participant
	Monitoring and Evaluation of Gulayan sa Paaralan of Schools and Home Gardens in Cavinti, Laguna	Sta. Cruz, Laguna, Philippines 2-3 Mar 2023	Evaluator
	Monitoring and Evaluation of <i>Gulayan sa Paaralan</i> of Schools in Cavinti, Laguna	Cavinti, Laguna, Philippines 22-23 Mar 2023	Evaluator

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Labios, Jean Rebecca	Asia-Pacific Symposium on Agrifood Systems Transformation	Virtual, 5-7 Oct 2022	Participant
	PREZODE Side Event at the FAO Science and Innovation Forum	Virtual, 13 Oct 2022	Participant
Lapitan, Rochella	Scientific Meeting Workshop on CIRAD-Sustainable Agricultural Systems in Southeast Asia (SALSA)	Zoom, 21-23 Nov 2022	Participant
Malaiba, Sharon	Economic Forecast for 2023	Makati City, Philippines 9 Nov 2022	Participant
	SEAMEO High Officials Meeting	Bangkok, Thailand 29-30 Nov 2022	Participant
	Sustainability Talks	Makati City, Philippines 7 Dec 2022	Participant
	52nd SEAMEO Council Conference	Mandaluyong City, Philippines 8-10 Feb 2023	Participant
	Economic Briefing 2023	Canlubang Laguna, Philippines 23 Feb 2023	Participant
	NORDIC Innovation Forum	Makati City, Philippines 22 Mar 2023	Participant
	Roundtable Discussion on Sustainable Food and Agriculture Systems	Pasay City, Philippines 18-19 Apr 2023	Organizer
	UN ESCAP Session on Connecting Local, National and Regional Strategies to Achieve Carbon Neutrality in Asia and the Pacific	Bangkok, Thailand 16 May 2023	Participant
	What is the Current Thinking on Youth and Agriculture in the Philippines?	SEARCA 7 Jun 2023	Participant
	Thailand Regional Agriculture Innovation Network (RAIN) Launch and Orientation	Bangkok, Thailand 21 Jun 2023	Participant
Malayang, Donna Bae	Inclusive Value Chains Leadership Network In- Person Workshop	Makati City, Philippines 13 Dec 2022	Participant
	Pathways to Net Zero for Agrifood and Land Use Systems in Asia: Long-term Strategies, Carbon Neutrality, Transparency, and the Carbon Market	MS Teams 14-16 Dec 2022	Participant
Mallari, Jerrel Edric	1st Laguna Robot LEGOlympics 2022	SEARCA 15 Jul 2022	Facilitator
	Workshop on Theory-based Evaluation for the Program on Accelerating Farm School Establishment (PAFSE)	SEARCA 13 Sep 2022	Organizer and Facilitator
Martinez, Beatrisa	Chief of Staff Leadership Program of the Asian Institute of Management	Zoom, 17 Oct-14 Nov 2022	Participant
	UN ESCAP Session on Connecting Local, National and Regional Strategies to Achieve Carbon Neutrality in Asia and the Pacific	Bangkok, Thailand 16 May 2023	Participant
	Regional Workshop on Mapping the Extent of Curricular Integration of One Health Concepts in Basic Education in Southeast Asia organized by SEAMEO Tropical Medicine and Public Health (TROPMED) Network, the Southeast Asia One Health University Network (SEAOHUN)	Bangkok, Thailand 22-23 Jun 2023	Participant
Medina, Danellie Joy	8th Annual Public Policy Conference (APPC) Webinar 4: Environmental Resilience and Climate Change and Closing Program	Zoom, 22 Sep 2022	Participant
	Animal Biotechnology Opportunities and Regulations in the Philippines	Zoom, 29 Sep 2022	Participant
	The Socio-economic Benefits of Biotech Crops - Global, Local, and Specific Cases	Zoom, 23 Nov 2022	Participant
	DOST National Science and Technology Week	Pasay City, Philippines 24-25 Nov 2022	Participant
Miraflores, Charles Van	Data Privacy Protection Auditor Training and Personnel Certification Program	Zoom, 22-26 Aug 2022	Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Miranda, Cirila	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Nadres, Arlene	National Academy of Science and Technology (NAST) 44th Annual Scientific Meeting	Manila City, Philippines 14 Jul 2022	Exhibitor
	International Ecotourism Travel Mart (IETM) 2023	Silang, Cavite, Philippines 28 Mar - 1-2 Apr 2023	Exhibitor
Nur Azura Adam	SEAMEO Centres Policy Research Network (CPRN) Summit 2023	SEAMEO RECSAM, Malaysia 6-9 Mar 2023	Participant
	1st National Scientific Conference and 13th General Assembly Meeting of the UP Society of Research, Extension, and Professional Staff, Inc. (UP REPSS)	Baños, Laguna, Philippines 7-8 Mar 2023	Plenary Speaker
	Technical Training on Edible Landscaping for the Establishment and Enhancement of Agricultural Technology Parks (ATPs) and Mini-ATPs in Cambodia	Siem Reap, Cambodia 22-25 May 2023	Resource Person
Oabina, Arnel	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Panopio, Ma. Gerardyn	The 1st Procurement and Purchasing Practitioners' Summit	Manila City, Philippines 21-22 Nov 2022	Participant
Pasiona, Sonny	Reimagining Rural Development in the 21st Century: Perspectives on Rural Revitalization, Social Entrepreneurship and Youth	Virtual, 19 Jul 2022	Participant
	Capacitating and Investing in the Youth for a Productive and Resilient Future	Virtual, 11 Aug 2022	Resource Speaker
	Training on Effective Partnering for Sustainable Development	Virtual, 24-28 Oct 2022	Participant
	Philippine Economic Society (PES) 60th Annual Meeting and Conference	Quezon City, Philippines 9 Nov 2022	Participant
	Economic Forecast for 2023	Makati City, Philippines 9 Nov 2022	Participant
	First International Conference on School-plus-Home Gardens cum Biodiversity Enhancement Enterprise (SHGBEE1)	Coron, Palawan, Philippines 10-12 Nov 2022	Presenter
	University Consortium (UC) Faculty Forum	Muñoz, Nueva Ecija, Philippines 7-9 Dec 2022	Presenter
	Asia Clean Energy Forum	Pasig, Philippines 13-16 Jun 2023	Participant
Quilapio, Kristine	The Impact of Quiet Quitting by Sprout Solutions	Zoom, 21 Sep 2022	Participant
	Strategic Training Management under the DLSU-School of Professional and Continuing Education (DLSU-SPaCE Diploma in Human Capital Management)	Zoom, 8, 15, 22, and 29 Oct 2022	Participant
	HR Forum 2022	Makati City, Philippines 28 Oct 2022	Participant
	Strategic Performance Management under the DLSU-School of Professional and Continuing Education (DLSU-SPaCE Diploma in Human Capital Management)	Zoom, 12, 19, 26 Nov, and 3 Dec 2022	Participant
Ramos, Nova	Association of Southeast Asian Nations (ASEAN) Philippine Higher Education Internationalization Champions of Nation-building and Sustainability (ASEAN ICONS)	Pasay City, Philippines 26 Aug 2022	Participant
	Food for Thought: Securing Food Security Amid the Instability	Virtual, 30 Aug 2022	Participant
	Launch of the Note on Critical, Emerging and Enduring Issues for Food Security and Nutrition of the High-level Panel of Experts on Food Security and Nutrition (HLPE-FSN)	Virtual, 30 Sep 2022	Participant
	Asia-Pacific Symposium on Agrifood Systems Transformation	Virtual, 5-7 Oct 2022	Participant
	Asia Clean Energy Forum	Pasig, Philippines 13-16 Jun 2023	Participant

Name of Participant	Title of Activity	Venue and Date	Nature of Participation
Silvoza, Jose Orlando	Hitting Targets Through Innovative Collection and Receivable Strategies	Zoom, 31 Aug 2022	Participant
Suarez, Joyce Kristienne Kamille	How to Build a Highly Effective Finance and Accounting Team	Zoom, 9 May 2023	Participant
Talatala, Mina	Capacitating and Investing in the Youth for a Productive and Resilient Future	Webinar, 11 Sep 2022	Attendee
	60th Philippines Economic Society Annual Meeting and Conference	Quezon City, Philippines 9 Nov 2022	Exhibitor
Tatlonghari, Gerlie	ASEAN Food and Agriculture Road to COP27/Manila Workshop	Pasay City, Philippines 27 Sep 2022	Participant
	2022 International Institute of Rural Reconstruction (IIRR) Regional Learning Conference	Hybrid (Zoom), 3 Oct 2022	Reactor
	Regional Workshop on Potential Use of Essential Oils Therapy against COVID-19 Infection Using Indigenous Knowledge	Hybrid (Zoom), 7 Oct 2022	Moderator
	Grow Asia Forum 2022	Singapore, 18 Oct 2022	Participant
	Scientific Meeting Workshop on CIRAD-Sustainable Agricultural Systems in Southeast Asia (SALSA)	Hybrid (Zoom) 21-23 Nov 2022	Participant
	2022 Inter-Regional Research Symposium	Bangkok, Thailand 23-25 Nov 2022	Participant
	IFAD Philippines Gender Network General Assembly	Davao City, Philippines 12-13 Dec 2022	Participant
	Centres Policy Research Network (CPRN) Summit 2023	Penang, Malaysia 6-9 Mar 2023	Participant
	National Launching of Fruit and Vegetables for Sustainable Healthy Diets (FRESH) Initiative	Pasay City, Philippines 16 May 23	Participant
Vallez, Anna Gale	Training-Workshop on Soil and Nutrient Management and Assessing Soil Health	Zoom, 30-31 Aug 2022	Participant
	Regional Workshop on Potential Use of Essential Oils Therapy against COVID-19 Infection using Indigenous Knowledge	Hybrid (Zoom), 7 Oct 2022	Participant
	1st SEA-SBNP Learning Exchange Forum	Zoom, 24 Oct 2022	Participant
	Scientific Meeting Workshop on CIRAD-Sustainable Agricultural Systems in Southeast Asia (SALSA)	Zoom, 21-23 Nov 2022	Participant
	Mainstreaming Wildlife Conservation into the One Health Framework	Zoom, 18 Nov 2022	Participant
	CPRN Summit 2023	Penang, Malaysia 6-9 Mar 2023	Paper Presenter
Vargas, Katerina	Revolutionizing Agricultural Innovations Through Sustainability - Asian Association of Agricultural Colleges and Universities (AAACU); 23rd Biennial Conference and General Assembly and 50th Founding Anniversary	Thailand 3-10 Jul 2022	Participant and Poster Presenter

#### Annex 19. SEAMEO SEARCA Senior Fellows, FY 2022/2023

Name and Designation	Field of Expertise	Appointment
Dr. Victor Bruce J. Tolentino Former Monetary Board Member, Bangko Sentral ng Pilipinas	Economics and Communication	15 March 2023 – 15 March 2025
Dr. Cielito F. Habito Chairman, Brain Trust: Knowledge and Options for Sustainable Development, Inc.	Economics	15 March 2023 – 15 March 2025
Dr. Ma. Concepcion C. Lizada Professor Emeritus, College of Home Economics, UP Diliman	Postharvest Physiology	15 March 2023 – 15 March 2025
Dr. Eero A.J. Nissila Managing Director and Chair Newfields Consulting Ltd.	Plant Breeding and Genetics	15 March 2023 – 15 March 2025
Dr. Gil C. Saguiguit, Jr. Former SEARCA Director	Economics, Agricultural and Rural Development	15 March 2023 – 15 March 2025



Name and Designation	Field of Expertise	Appointment
Dr. Howarth Bouis Founding Director, HarvestPlus, and Emeritus Fellow, Foreign Policy Research Institute (FPRI)	Biofortification	15 March 2023 – 15 March 2025
Dr. Keijiro Otsuka Professor, Faculty of Economics, Kobe University	Agricultural and Industrial Development	15 March 2023 – 15 March 2025
Dr. Paul S. Teng Dean and Managing Director National Institute of Education International (NIEI), Nanyang Technological Institute (NTI)	Agricultural Systems Research	15 March 2023 – 15 March 2025
Dr. Shu-Jen Wang Professor Department of Agronomy, College of Bioresources and Agriculture, National Taiwan University	Plant Physiology	15 March 2023 – 15 March 2025
Dr. William G. Padolina Academician, National Academy of Science and Technology (NAST), Philippines and Former Deputy Director General, International Rice Research Institute (IRRI)	Research Management and Science Policy	15 March 2023 – 15 March 2025
Dr. Rex Victor O. Cruz Professor Emeritus, Institute of Renewable Energy, College of Forestry and Natural Resources, UPLB, and Academician, National Academy of Science and Technology (NAST), Philippines	Forestry and Natural Resource Management	15 March 2023 – 15 March 2025
Dr. Reiner Wassmann Former IRRI Senior Scientist and Climate Change Expert/Focal Person	Climate and Environmental Science	15 March 2023 – 15 March 2025
Dr. Ben S. Malayang III Professor Emeritus and Former President, Silliman University, Philippines	Environmental Policy and Governance	15 March 2023 – 15 March 2025
Dr. Emerlinda R. Roman Professor Emeritus and former UP System President	Agricultural Business Management	15 March 2023 – 15 March 2025
Dr. Eufemio T. Rasco, Jr. Academician, National Academy of Science and Technology (NAST), Philippines	Plant Breeding	15 March 2023 – 15 March 2025
Dr. Eing Ming Wu Executive Director, Edu-Connect Southeast Asia Association	Management and Governance	15 March 2023 – 15 March 2025
Dr. Julian Gonsalves Senior Advisor, IIRR	Natural Resource Management	15 February 2022 – 15 February 2024
Dr. Thelma R. Paris Former Senior Scientist, IRRI and Professor, UPOU	Gender Studies and Rural Development	25 March 2022 – 25 March 2024



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