The e-ASIA Joint Research Program

10th Annual Activity Report - Summary (2021.9 - 2022.9)



e-ASIA JRP Secretariat

Basic Information

This yearly report summarizes the activities of the e-ASIA Joint Research Program during the period from the 10th Annual Board Meeting on September 1, 2021 (online) to September 7, 2022.

First Edition:

This report was originally approved on September 9, 2022.

The e-ASIA Joint Research Program Annual Activity Report – Summary

Program Administration

The 10th Annual Board Meeting

- The 10th Annual Board Meeting was held on September 1, 2021, by Zoom virtual platform, Ms. Kaneko, Secretariat General and Mr. Ken Kawabata, e-ASIA Special Program Coordinator served as the meeting's moderators. The Board Members and the representatives, including other participants from 18 out of 22 Member Organizations (MOs)of the Program from 12 out of 14 countries have attended this meeting.
- The status of the challenges caused by COVID-19 was shared by the Ministry of Science, Technology and Innovation of Malaysia (MOSTI), which included Malaysia's vaccination supply, vaccine hesitancy and the emergence of the new variant.

Events	Schedule of 10th call
Open call	15 December 2021
Close call	30 March 2022
Eligibility Check	1 April – 18 April 2022
Review in MOs	25 April – 5 August 2022
Joint Review Meeting (as a part of ABM)	8,9 September 2022
Announcement to applicants	30 November 2022
Contract preparation by each MO	Dec-Feb 2023
Start funding/Implementation	January – March 2023

3. Tentative schedule for the 11th Call for Proposals was shared by the Secretariat that was then approved by the Board.

- Possible focusing topics for the 11th Call for proposals were introduced and discussed. The Board agreed to finalize the call topics by the end of Sep. 2021 by the ad hoc meeting.
- 5. Discussion on the eligibility and review criteria was held. MOs agreed to explain the clear eligibility (including assessment/review) criteria in the Call Guidelines from the upcoming 11th Call for Proposals.

- 6. The Secretariat provided an update on the number of applications received, deemed to be ineligible and reviewed for the 10th Call for Proposals. The Secretariat informed that the selection of candidate proposals to be made by email voting by the Board Members and the announcement of selection to be made by the end of November 2021.
- 7. As the introduction of events, the National Institute of Allergy and Infectious Diseases (NIAID) provided an update on the workshop on 'Climate Change impact on human health'. NIAID asked MOs to advise for additional experts to be included in the scientific planning meeting for this workshop. Also, the Secretariat introduced the 10th anniversary of e-ASIA JRP to be held in 2022.

The 34th ad hoc Board Meeting

- 8. The 34th ad hoc Board Meeting was held via email sent on September 28, 2021.
- 9. The approved 4 items by Ad hoc Board meeting as the following:
 - 10th Annual Board Meeting Draft Minutes
 - Progress & final report new template
 - 9th Annual Activity Report
 - 10th Call Candidate Proposals to be selected

The 35th ad hoc Board Meeting

- 10. The 35th ad hoc Board Meeting was held via email sent on November 22, 2021.
- **11.** The approved the revision and the addition request of the Program Statute by Ad hoc Board meeting as the following:
 - Revisions on the current member organizations
 - Addition of request for submission of 'Notification of the change of Member Organization's name' to the Secretariat
 - Addition of request for submission of 'Notification of new Board Member' to the Secretariat
 - Revision on the modalities of The Annual Board Meeting
 - Revisions on 'List of Program-Related Documents'
- 12. The Secretariat had launched new page on the e-ASIA website in order to help finding the international collaborators, formulating the international teams for participating in the e-ASIA JRP Call for Proposals.

https://www.the-easia.org/jrp/collaborators.html

Member Organizations and Guest Partner

1. List of current Member Organizations and their Board Members and representatives in alphabetical order by country, as of August 2022, is as follows:

*22 Member Organizations from 14 countries

	Country	Name	Title & Organization
1	Australia	Prof. Anne Kelso AO	Chief Executive Officer, National Health and Medical Research Council (NHMRC)
2	Cambodia	Dr. Fidero Kuok	Director General of National Institute of Science, Technology & Innovation, Ministry of Industry, Science Technology and Innovation (MISTI)
3	Cambodia	Dr. Kheng Sim	Deputy-Director of Communicable Disease Control Department, Ministry of Health (MOH)
4	Indonesia	(TBD)	Ministry of Education, Culture, Research and Technology (DIKBUDRISTEK) Previous Responsible Organization: Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN)
5	Japan	Dr. Yasushi Ogasaka	Managing Director of Department of International Strategy, Japan Agency of Medical Research and Development (AMED)
6	Japan	Mr. Shigeo Morimoto	Vice President, Japan Science and Technology Agency (JST) (as the agent of MEXT)
7	Lao PDR	Dr. Rattanaxay Phetsouvanh	Director General of the Department of Communicable Diseases Control, Ministry of Health (MOH)
8	Lao PDR	Mr. Southiphong Vongxaiya	Director of Research and Development Management Division; Cabinet of Lao Academy of Science, Ministry of Education and Sports (MOES)
9	Malaysia	Mr. Teoh Phi Li	Under Secretary of International Division, Ministry of Science, Technology Innovation (MOSTI)
10	Myanmar	Dr. Phyu Phyu Win	Director General, Department of Research and Innovation (DRI), Ministry of Science and Technology (MOST)
11	New Zealand	Prof. Sunny Collings	Chief Executive, Health Research Council (HRC)
12	The Philippines	(TBD)	Department of Science and Technology (DOST)

	Country	Name	Title & Organization
13	Russian Federation	Mr. Alexander Usoltsev	Head of International Relations, Russian Foundation for Basic Research (RFBR)
14	© Singapore	Prof. Andy Hor	Deputy Chief Executive (Research), Agency for Science, Technology and Research (A*STAR)
15	Thailand	Ms. Kunvara Chotiphansophon	Deputy Director, Agriculture Research Development Agency (ARDA)
16	Thailand	Dr. Worajit Setthapun	Deputy Director for Global Partnership, Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)
17	Thailand	(TBD)	Executive Vice President, Thailand National Science and Technology Development Agency (NSTDA)
18	Thailand	Dr. Wiparat De-ong	Executive Director, National Research Council of Thailand (NRCT)
19	Thailand	Associate Prof. Dr. Pongpan Kaewtatip	Vice President, Thailand Science Research and Innovation (TSRI)
20	U.S.	Mr. F. Gray Handley	Associate Director for International Research Affairs, National Institute of Allergy and Infectious Diseases (NIAID)
21	U.S.	Dr. Paul Pearlman	Program Director, Center for Global Health, National Cancer Institute (NCI)
22	★ Vietnam	Ms. Le Thi Viet Lam	Deputy Director General of Department of International Cooperation, Ministry of Science and Technology (MOST)

2. National Science Foundation of Sri Lanka is the Guest Partner organization in the Program since October 2017.

Joint Calls for Proposals

The 10th Joint Calls for Proposals

 The 10th Joint Call for Proposals on the topic of "Materials Informatics and Advanced Material Research by Utilizing Computers" in the field of "Materials" opened from December 15, 2020 to March 29, 2021. Out of the 12 proposals submitted, the following four projects were approved by the Board to be supported:

Countries & Pis		
Japan	Manabu Enoki	Professor, The University of Tokyo
0	Mark Jhon	Senior Scientist, Institute of High
Singapore		Performance Computing, A*STAR
		Associate Professor / Head of
Indonesia	Fergyanto Gunawan	Department, Bina Nusantara
		(BINUS) University
Forms of Funding		
lanan	New funds	Japan Science and Technology
Japan		Agency (JST)
Singapore	In-kind participation	Agency for Science, Technology
		and Research (A*STAR)
	New funds	Ministry of Research and
Indonesia		Technology/ National Agency of
		Research and Innovation
		(RISTEK/BRIN)

i "Data-Driven Design of Mechanical properties in Metallic Layered Structures"

This cooperative research project aims for the design optimization of mechanical properties in metallic layered structures by data driven approach that integrates various computational simulations and information science techniques. Through collaborative and complementary research in Japan, Singapore and Indonesia, this project is expected to construct new material research and development methods in metallic layered structures

ii "Computational Design of High Entropy Alloys for Catalyst and Battery Applications"

Philippines	Allan Abraham Padama	Professor, University of Philippines Los Baños
Japan	Koji Shimizu	Assistant Professor, The University of Tokyo
Singapore	Teck Leong Tan	Deputy Department Director,

Countries & PIs

		1
		Institute of High Performance
		Computing, A*STAR
		Researcher, National Metal and
Thailand	Tongjai Chookajorn	Materials Technology Center
		(MTEC)
Forms of Fundi	ng	
	New funds	Department of Science and
		Technology, Philippine Council for
Philippines		Industry, Energy and Emerging
		Technology (DOST-PCIEERD)
lenen	New funds	Japan Science and Technology
Japan		Agency (JST)
Cincipara	In-kind participation	Agency for Science, Technology
Singapore		and Research (A*STAR)
	New funds	Program Management Unit for
-		Human Resources & Institutional
Thailand		Development, Research and
		Innovation (PMU-B)

This cooperative research project aims to computationally design high entropy alloys (HEAs) for catalyst and battery applications. Understanding the nature of HEAs, a new class of multi component materials, will lead to their potential industrial applications. Taking advantage of atomistic calculations and materials informatics methods, we reveal the physical properties of the designed HEAs and evaluate their innovative functionalities.

iii "Data-driven computational design of high-performance thermoelec- trics in atomic layers and topological materials"

lanan	Japan Fumiyuki Ishii	Associate Professor, Kanazawa
Japan		University
Theiland	Thailand Tosawat Seetawan	Professor, Sakon Nakhon Rajabhat
Thallanu		University
Indonasia		Lecturer, Sepuluh Nopember
Indonesia Melania S. Muntini		Institute of Technology

Forms o	f Funding

	New funds	Japan Science and Technology
Japan		Agency (JST)
	New funds	Program Management Unit for
Thailand		Human Resources & Institutional
Thaliand		Development, Research and
		Innovation (PMU-B)
	New funds	Ministry of Research and
Indonesia		Technology/ National Agency of
		Research and Innovation
		(RISTEK/BRIN)

This cooperative research project aims to achieve high performance thermoelectrics based on two dimensional atomic layers and topological materials using cutting edge computational tools assist ed by experimental data. By this integrated approach, the project may give better thermoelectric materials design that will contribute to understanding both conventional and exotic thermoelectric

materials as well as to the development of new thermoelectric applications.

iv "Multi-scale Simulations and Design for CO2 recycling related processes"

Japan	Yoshitada Morikawa	Professor, Osaka University
	0 " "	Professor, Institute of Technology
Indonesia	Suprijadi	Bandung (ITB)
Theiland		Professor, Chulalongkorn
Thailand	Joongjai Panpranot	University
Forms of Funding		
Japan	New funds	Japan Science and Technology
		Agency (JST)
Indonesia New funds		Ministry of Research and
	Technology / National Research	
	new runus	and Innovation Agency
		(RISTEK/BRIN)
Thailand	New funds	Program Management Unit for

Human Resources & Institutional
Development, Research and
Innovation (PMU-B)

This cooperative research project aims to mitigate the global worming problem by designing materials for CO₂ recycling and related processes such as CO₂ capture and hydrogenation, direct methanol fuel cell electrocatalysts and next generation secondary batteries, by using multi-scale computer simulation methods with electronic structure theory and machine learning methods in collaboration with experimental groups.

 The 10th Joint Call for Proposals on the topic of "Infectious Diseases and Cancer" in the field of "Health Research" opened from December 15, 2020 to March 29, 2021. Out of the 34 proposals submitted, the following seven projects were approved by the Board to be supported:

Thailand	Tavan Janvilisri	Professor, Mahidol University
		Associate Professor, South Dakota
USA	Joy Scaria	State University
Australia	Llapriatta Vantar	Associate Professor, University of
Australia	Henrietta Venter	South Australia
Dhilippingo	Angelyn Lao,	Associate Professor, De La Salle
Philippines		University
Forms of Funding		
Theiland	New funds	National Research Council of
Thailand		Thailand (NRCT)
USA	New funds	National Institute of Allergy and
USA		Infectious Diseases (NIAID)
Australia	In-kind participation	National Health & Medical
Austialia		Research Council (NHMRC)
Dhilippipos	New funds	Department of Science and
Philippines		Technology, Philippine Council for

i "Alternative therapeutics to tackle AMR pathogens"

	Health Research and Development
	(DOST-PCHRD)

This cooperative research project aims to i) deliver new non-antibiotic therapies to treat multidrug resistant bacterial pathogens and ii) measure the efficacy of these therapies and their impact on AMR. The ultimate goal is to decrease the use of antibiotics and so delay the development of resistance or even to remove resistance mechanisms in bacterial sub-populations.

ii "Ending HIV transmission by Optimizing Pre-exposure prophylaxis in East Asia (HOPE)"

		Doctor / Head of HIV economics	
Australia	Jason Jiat Shern Ong	and Health Preference Research,	
		Monash University	
Thailand	Nittava Phanunhak	Executive Director, Institute of HIV	
Thailanu	Nittaya Phanuphak	Research and Innovation	
Dhilippings	Noel Juban	Professor, University of the	
Philippines	NOEI JUDAN	Philippines Manila	
USA	Weiming Tang	Doctor, The University of North	
03A		Carolina at Chapel Hill	
Forms of Fundir	Forms of Funding		
Australia	New funds	National Health & Medical	
Australia		Research Council (NHMRC)	
Thailand	New funds	Thailand National Science and	
		Technology Development Agency	
		(NSTDA)	
		Department of Science and	
Philippines	New funds	Technology, Philippine Council for	
		Health Research and Development	
		(DOST-PCHRD)	
	New funds	National Institute of Allergy and	
USA		Infectious Diseases (NIAID)	

Countries & PIs

This project aims to reduce HIV transmission in East Asia by optimizing the

effectiveness of pre-exposure prophylaxis (PrEP). It establishes a network of regional experts to co-design strategies with key populations in Australia, Thailand and the Philippines. Interventions to optimize adherence among PrEP users will be informed by innovative methods (crowdsourcing, discrete choice experiments) and implemented in each country.

iii "Promotion of photodynamic medicine for cancer"

Japan	Shun-ichiro Ogura	Associate Professor, Tokyo Institute of Technology
		Doctor / Associate Professor,
Indonesia	Anom Bowolaksono	Faculty of Mathematics and
		Natural Sciences (FMIPA)
USA	Taifo Mahmud	Professor, Oregon State University
Forms of Funding	<u>g</u>	
	New funds	Japan Agency for Medical
Japan		Research and Development
		(AMED)
		Ministry of Research and
Indonesia	New funds	Technology/ National Agency of
		Research and Innovation
		(RISTEK/BRIN)
USA	In-kind participation	National Cancer Institute (NCI)

Countries & Pls

This cooperative research project aims to develop a new platform of aminolevulinic acid-based photodynamic medicine that can be used for different purposes, ranging from screening of early-stage cancers, diagnosis, to total treatment of cancers. Simultaneously, we will screen and develop small molecules that can improve the efficiency of photodynamic medicine.

iv "Development of genome platform for virulence and antimicrobial resistance of Helicobacter pylori in ASEAN countries"

Japan Yoshio Yamaoka	Professor, Dean of Faculty of
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		Medicine, Oita University
Indonesia	Muhammad Miftahussurur	Vice Rector, Airlangga University
Thailand	Ratha-korn Vilaichone	Professor, Thammasat University Hospital
Forms of Funding	<u>g</u>	
Japan	New funds	Japan Agency for Medical Research and Development (AMED)
Indonesia	New funds	Ministry of Research and Technology/ National Agency of Research and Innovation (RISTEK/BRIN)
Thailand	New funds	Thailand National Science and Technology Development Agency (NSTDA)

This cooperative research project aims to develop genome database in ASEAN countries to predict Helicobacter pylori (Hp) carcinogenesis and antimicrobial resistance (AMR) using bacterial genome wide association study and in vitro experiments including human gastric organoid system. We will establish genome data platform to identify the virulence and AMR mutations used for individual-level treatment regimens and promote international collaboration.

v "Targeting MYCN/NCYM for cancer therapy"

lanan	Yoshitaka Hippo	Department Head, Chiba Cancer
Japan		Center
Australia	Tao Liu	Group Leader, The University of
Australia		New South Wales
Indonesia	Edy Meiyanto	Professor, Gadjah Mada University
Forms of Funding		
		Japan Agency for Medical
Japan	New funds	Research and Development
		(AMED)

Australia	New funds	National Health & Medical
		Research Council (NHMRC)
Indonesia	New funds	Ministry of Research and
		Technology/ National Agency of
		Research and Innovation
		(RISTEK/BRIN)

The aim of this project is to develop novel therapeutic strategies for liver cancer by targeting MYCN/NCYM. The effects of anti-cancer agents inhibiting MYCN/NCYM function, obtained either from natural resources or through chemical synthesis, will be examined using patient-derived organoid and mouse models for potential translation into clinical trials. Multi-omics will reveal the molecular mechanisms underlying the tumor suppressive effects.

vi "Vector sero-surveillance tools to accelerate malaria elimination"

Countries & PIs	<u>Jountries & Pis</u>			
Australia	Freya Fowkes	Deputy Director, Malaria and		
		Infectious Disease Epidemiology,		
		Burnet Institute		
		Head of Entomology Laboratory,		
Thailand	Victor Chaumeau	Shoklo Malaria Research Unit		
		(SMRU)		
		Clinician Scientist, Myanmar		
Myanmar	Aung Pyae Phyo	Oxford Clinical Research Unit		
		(MOCRU)		
	Sovannaroth Siv	Malaria Program Manager/ Chief of		
Cambodia		Technical, Cambodia		
		National Centre For Parasitology,		
		Entomology & Malaria Control		
Lao P.D.R.	Phoutnalong Vilay	Vice of unit, Ministry of Health		
Forms of Funding				
Australia	New funds	National Health & Medical		
Australia		Research Council (NHMRC)		
Theiland	In kind participation*	National Science and Technology		
Thailand	In-kind participation*	Development Agency (NISTDA)		

Countries & Pls

Development Agency (NSTDA)

Myanmar	In-kind participation	Ministry of Education (MOE)
Cambodia	In-kind participation	Ministry of Health (MOH)
Lao P.D.R.	In-kind participation	Ministry of Health (MOH)

*Funding modality had been changed from "New" to "In-kind" due to legal issue. (NHMRC, MOE, MOH of Cambodia, MOH of Laos approved by mail based on 10 May 2022)

This cooperative research project aims to develop antibodies to mosquito salivary antigens as tools to measure exposure to malaria vectors and risk of malaria transmission in the Greater Mekong Subregion. We will assess whether these novel sero-surveillance tools can be used to measure the impact of preventive interventions on vector exposure and malaria transmission at an individual and population level.

vii "Innovative point-of-care diagnostics and environmental surveillance tools for the elimination of Asian schistosomiasis"

Countines & Lis			
Australia	Pengfei Cai	Doctor / SRO, QIMR Berghofer	
		Medical Research Institute	
		Department Head / Chief Science	
Philippines	Mario Antonio II Jiz	Research Specialist, Research	
		Institute for Tropical Medicine	
lanan	Vasubita Saka	Professor, Asahikawa Medical	
Japan	Yasuhito Sako	University	
Forms of Funding	Forms of Funding		
Australia	New funds	National Health & Medical	
Australia		Research Council (NHMRC)	
Philippines	New funds	Department of Science and	
		Technology, Philippine Council for	
		Health Research and Development	
		(DOST-PCHRD)	
	New funds	Japan Agency for Medical	
Japan		Research and Development	
		(AMED)	

Countries & Pls

This cooperative research project aims to develop inexpensive point-of-care

(POC) diagnostics for Asian Schistosomiasis that are rapid and field-friendly, and to develop innovative environmental DNA (eDNA) detection tools for surveillance of schistosomiasis. Accurate and rapid diagnostics are a key cornerstone for control and elimination of schistosomiasis in Asia. Our research project will develop and trial molecular and immunology based POC, and molecular based eDNA detection methods in a schistosomiasis-endemic area of the Philippines.

- The 10th Joint Call for Proposals on the topic of "Marine Science and Climate Change" in the field of "Environment" opened from December 15, 2020 to March 29, 2021. Out of the 20 proposals submitted, the following four projects were approved by the Board to be supported:
- i. "Construction of carbon recycling systems to produce alternative fish oil and its application for producing health-beneficial aquacultural and poultry products"

Japan	Satoshi Nakai	Professor, Hiroshima University
Indonasia	O a a a a li a a ta	Professor, Sepuluh Nopember
Indonesia	Soeprijanto	Institute of Technology
		Professor, College of Engineering
Dhilippipos	Varaniaa Miga	and Agro-Industrial Technology
Philippines	Veronica Migo	(CEAT), University of the
		Philippines Los Baños (UPLB)
Forms of Funding	g	
lanan	New funds	Japan Science and Technology
Japan		Agency (JST)
	New funds	Ministry of Research and
Indonesia		Technology/ National Agency of
Indonesia		Research and Innovation
		(RISTEK/BRIN)
	New funds	Department of Science and
Philippines		Technology, Philippine Council for
		Agriculture, Aquatic and Natural
		Resources Research and
		Development (DOST-PCAARRD)

This collaborative research aims to construct carbon recycling systems where the heterotrophic microorganisms, thraustochytrids are cultivated using food and beverage-processed waste and wastewater to produce polyunsaturated fatty acids (PUFAs) such as docosahexaenoic and eicosapentaenoic acids (DHA and EPA) and to demonstrate that the resultant biomass can be used as alternative fish oil to produce PUFAs-enriched aquacultural and poultry products.

ii. "Application of eDNA metabarcoding in faunal biodiversity assessment of Indo-Pacific mangroves vulnerable to climate change"

Countries & Pls

Japan	Tadashi Kajita	Professor, University of the	
		Ryukyus	
Indonasia		Professor, University of Sumatera	
Indonesia	Mohammad Basyuni	Utara	
		Associate Professor IV / Acting	
Dhilippipos	Vanue Loopardae	Dean, School of Graduate	
Philippines	Venus Leopardas	Studies, Mindanao State University	
		at Naawan	
Forms of Funding	Forms of Funding		
lanan	New funds	Japan Science and Technology	
Japan		Agency (JST)	
	New funds	Ministry of Research and	
Indonesia		Technology/ National Agency of	
indonesia		Research and Innovation	
		(RISTEK/BRIN)	
	New funds	Department of Science and	
Philippines		Technology, Philippine Council for	
		Agriculture, Aquatic and Natural	
		Resources Research and	
		Development (DOST-PCAARRD)	

This collaborative research project aims to develop a standardized biomonitoring tool by using aquatic environmental DNA for Indo-Pacific mangrove ecosystem. The eDNA approach will serve as a new indicator for evaluating species biodiversity in mangrove ecosystems. Incorporating with Species Distribution Model analyses, the study will provide prediction of species distribution under different climate change scenarios.

iii. "Marine Heat Waves in the Western Pacific: Detection, Mechanisms and Their Impacts on the Coral Reef Ecosystem"

	Assoc. Professor / Secretary of		
Anindya Wirasatriya	Department, Diponegoro		
	University		
	Professor / Head of Physical		
Toshio Suga	Oceanography Laboratory, Tohoku		
	University		
	Assistant Professor, Marine		
Maria Vanessa	Science Institute (MSI),		
Rodriguez	University of the Philippines (UP)		
	Diliman		
g			
New funds	Ministry of Research and		
	Technology/ National Agency of		
	Research and Innovation		
	(RISTEK/BRIN)		
New funds	Japan Science and Technology		
	Agency (JST)		
New funds	Department of Science and		
	Technology, Philippine Council for		
	Agriculture, Aquatic and Natural		
	Resources Research and		
	Development (DOST-PCAARRD)		
	Toshio Suga Maria Vanessa Rodriguez <u>9</u> New funds New funds		

Countries & Pls

This cooperative research project aims to identify Marine Heat Wave (MHW) events in the western Pacific and investigate their mechanisms and impacts on the coral reef.

MHW is new subject in climate change, characterized by extremely high ocean temperatures that persist for days to months, can extend up to thousands of

kilometres and can penetrate multiple hundreds of metres depth.

iv. "Enhancing Climate Change Resilience of Social-Ecological Systems in the Coral Triangle and Its Surrounding Areas"

0001111103 0 1 13				
Japan		Ph D. (Sci.) / Senior Researcher,		
	Rempei Suwa	Japan International Research		
		Center for Agricultural Sciences		
		(JIRCAS)		
	Rene Rollon	Professor, Institute of		
Dhilippings		Environmental Science &		
Philippines		Meteorology (IESM), University of		
		the Philippines (UP) Diliman		
Indonesia	Analuddin	Professor, Halu Oleo University		
Forms of Funding	g			
lanan	New funds	Japan Science and Technology		
Japan		Agency (JST)		
Philippines	In-kind participation	(Own budget)		
Indonesia	New funds	Ministry of Research and		
		Technology / National Research		
		and Innovation Agency		
		(RISTEK/BRIN)		

Countries & PIs

This cooperative research project aims to improve mental health and well-being of informal carers of people with dementia by: (1) developing and evaluating an iSupport Virtual Assistant to support dementia carers through a partnership of Australia, Indonesia, New Zealand, and Vietnam; and (2) building capacity of researchers and Non-Government Organisation (NGO) partners to support this development and evaluation.

 v. "Cooperation of Vietnam, Myanmar and Russia in the development of new targeted agents against viral and parasitic infections based on plant metabolites"

		Reseacher, Ufa Federal Recearch		
Russia	Irina Smirnova	Center of the Russian Academy of		
		Science		
Vietnam	Van Loc Tran	Associate Professor, Institute of		
		Chemistry		
Myanmar	Myint Myint Khine NiL	Professor, University of Yangon		
Forms of Funding				
Russia	New funds	Russian Foundation for Basic		
Russia		Research (RFBR)		
Vietnam	New funds	Ministry of Science and		
		Technology (MOST)		
Myanmar	In-kind participation	Ministry of Education (MOE)		

This cooperative research project aims to develop new targeted agents based on natural metabolites of the flora of Vietnam, Myanmar and Russia, modify their chemical structures to enhance their activity for treatment of infectious and parasite diseases. Researchers will concentrate in finding out active candidates for the care of diseases caused by SARS-COV-II and dengue virus as well as by the malaria parasites.

The 11th Joint Call for Proposals

4. The 11th Joint Calls for Proposals on the topic of "Urban and biological wastes to energy and biofuels", "New fuel cell science and technologies", "Alternative energies in the tropics and sub-tropics" in the field of "Alternative Energy", Calls for Proposals on the topic of "Infectious Diseases (including Antimicrobial Resistance)" and "Cancer" in the field of "Health Research", Calls for Proposals on the topic of "Greener Digital Cities" in the field of "Advanced Interdisciplinary Research towards Innovation" were opened from December 15, 2021 to March 30, 2022. These calls were participated by the following Member Organizations (listed in alphabetical order):

Participating Member Organizations and their funding modalities for the 11th Calls for Proposals

Fields	Alternative Energy			Health Research		Advanced Interdisciplinary Research towards Innovation
Topics	Urban and biological wastes to energy and biofuels	New fuel cell science and technologies	Alternative energies in the tropics and sub- tropics	Infectious Diseases (including Antimicrobial Resistance)	Cancer	Greener Digital Cities
NHMRC (Australia)				New		
JST (Japan)	New	New	New			New
AMED (Japan)				New	New	
MOST (Myanmar)	In-kind					In-kind
DOST- PCAARRD (Philippines)						New
DOST- PCIEERD (Philippines)	New	New	New			New
DOST- PCHRD (Philippines)				New	New	New
A*STAR (Singapore)	New	New	New			
NSTDA (Thailand)				New	New	
NRCT (Thailand)						New
PMU-B (Thailand)	New, In-kind	New, In-kind	New, In-kind	New, In-kind		

NIAID (USA)		New Re-Budgeting In-kind	New Re- Budgeting In-kind	
NCI (USA)		New Re-Budgeting In-kind	New Re- Budgeting In-kind	

The selection of the proposals for all these three calls is still in progress.

Researcher Interaction

1. <u>The e-ASIA Joint Research Program Workshop on Greener Digital Cities</u>

The workshop was held on November 29, 2021 and December 1, 2021 via Zoom conference due to COVID-19 pandemic. This workshop was co-organized by Japan Science and Technology Agency (JST) and e-ASIA JRP Secretariat and supported by Ministry of Science and Technology (MOST), Myanmar, Department of Science and Technology (DOST-PCHRD), (DOST-PCAARRD), (DOST-PCIEERD), Philippines, Agency for Science, Technology and Research (A*STAR), Singapore and National Research Council of Thailand (NRCT), Thailand. There were 117 participants including 34 invited speakers (Indonesia, Japan, Malaysia, Myanmar, Philippines, Singapore and Thailand).

This workshop was divided into three sessions: (1) Analysis & Modeling (2) Simulation & Optimization and (3) Implementation. Holding this workshop aimed to explore potential collaboration opportunities to prepare

for the e-ASIA JRP's 11th joint call on "Greener Digital Cities" through

- 1. learning smart city policies from the governments
- 2. hearing project ideas from academia
- 3. promoting collaborations of 3+ countries
- <u>The e-ASIA Joint Research Program Workshop on Climate Change and Health</u> The workshop will be held on 6-7 September 2022 at East West Center Honolulu, Hawaii. The format of the workshop will be hybrid (In-person and Live Streaming). The objective of the workshop is to promote the networking among the researchers for the next 12th Call for Proposals and sharing their knowledge

to the others.

Event

1. The e-ASIA 10th Anniversary Event

This event was held on 11-12 July 2022 at Mercure Bangkok Sukhumvit 24, Thailand. This was to celebrate the e-ASIA Joint Research Program's accomplishment since the program's establishment in June 2012. We invited all member organizations, SAC members, former board member based in Thailand, PIs and executive guests. There were over 58 on-site participants and over 40 online participants. On the 1st day, we had seven PIs who were invited as speakers to showcase their research outcomes. Networking lunch and networking dinner were also provided on both days. On the 2nd day, it was limited to e-ASIA member organizations only. We discussed on two discussion points: "Possible expansion of the international collaboration" and "Possible revision of the current research fields". For more information, please visit the following website: http://www.the-easia.org/jrp/

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