

e-ASIA Joint Research Program (e-ASIA JRP)
Joint Research Project in the field of “Environment”
on the topic of
“Climate Change Impact on Natural and Human Systems”

It is our great pleasure to announce the selected projects of the e-ASIA Joint Research Program (e-ASIA JRP)*¹ 9th Call for Proposals in the field of “Climate Change” on the topic of “Climate Change Impact on Natural and Human Systems”.

A total of 33 proposals was submitted in response to the 9th joint call for proposals. After careful consideration based on the peer review results by the 8 funding organizations from 7 countries participating in the call*², the following 4 collaborative projects were selected for support with the approval of the e-ASIA JRP Board. Support to the projects will continue for three years.

“Impact of Climate Change on the Potential Increase of *Opisthorchis viverrini* and *Opisthorchis felinus* Transmission in Thailand, Lao PDR and Russia”

to be conducted jointly by:

Thailand: Banchob Sripa, Professor and Head, Tropical Disease Research Centre, Khon Kaen University

Lao PDR: Somphou Sayasone, Head of Department, Lao Tropical and Public Health Institute

Russia: Natalia Yurlova, Leading Research Scholar, Institute of Systematics and Ecology of Animals SB RAS

This cooperative research project aims to assess the impact of climate change on the potential increased transmission of the liver flukes *Opisthorchis viverrini* and *Opisthorchis felinus* through *Bithynia* snails in Russia, Lao PDR and Thailand and to predict the transmission of the liver flukes under different climate change scenarios (A2,B2 models) in 2050 and 2080.

“Climate change Resilience of Indigenous Socio Ecological systems”

to be conducted jointly by:

Japan: Jorge García Molinos, Associate Professor, Hokkaido University

Russia: Tuyara Gavrilyeva, Research Professor, North-Eastern Federal University

Thailand: Wantanee Kriengsinyos, Associate Professor, Mahidol University

This cooperative research project aims to project current and future risks from climate change and socioeconomic development to the natural capital supporting traditional indigenous socioecological systems (ISS). Two distinctive ISS (Thailand and Siberia) will be used as case studies. RISE will deliver high impact science to inform effective decision making towards regional development, sustainability and climate change adaptation.

“Climate Change and Human Health in Asia: Current Impacts, Future Risks, and Health Benefits of Mitigation Policies”

to be conducted jointly by:

Australia: Yuming Guo, Professor/Head, Monash University

Japan: Masahiro Hashizume, Professor, The University of Tokyo

Thailand: Kraichat Tantrakarnapa, Associate Professor, Mahidol University

Asia is one of the most vulnerable regions to climate change in the world. However, evidence about the impacts of climate change on human health is far limited in this region. This project will examine current evidence on temperature and human health, project future health risks associated with temperature under climate change, and assess health benefits of mitigation policies in Asia.

“Integration of traditional and modern bioproduction systems for a sustainable and resilient future under climate and ecosystem changes”

to be conducted jointly by:

Japan: Osamu Saito, Principal Policy Researcher, Institute for Global Environmental Strategies (IGES)

Philippines: Juan Pulhin, Professor 12 (DSFFG) and Chair, University of the Philippines Los Baños

Indonesia: Pampang Parikesit, Professor/Chair, Universitas Padjadjaran Bandung

This cooperative research project aims to explore scenarios/pathways for a sustainable and resilient future under climate and ecosystem changes by focusing on integration of traditional and modern bioproduction systems such as homegarden, agroforestry, plantation, aquaculture, and urban agriculture in Japan, Philippines, and Indonesia. The project assesses various ecosystem services provided by the bioproduction systems under multiple future scenarios.

On behalf of the e-ASIA JRP, we would like to offer our sincerest congratulations to the project teams, and look forward to the significant impact their results will bring to our society in the future.

*1 The e-ASIA Joint Research Program (e-ASIA JRP)

Through exchange and collaboration, the e-ASIA Joint Research Program (e-ASIA JRP) aims to strengthen scientific and technological research and development capabilities towards resolving shared challenges across the East Asia region. These include challenges associated with materials, alternative energy, agriculture, health research, disaster risk reduction and management, advanced interdisciplinary research towards innovation, and environment.

As part of that objective, the e-ASIA JRP is intended to support collaborative research

among three or more of its member countries. Through joint research among participating countries in agreed fields, it is the goal of the e-ASIA JRP to contribute to economic and human resource development, and to the resolution of various challenges in the region.

e-ASIA JRP's homepage: <http://www.the-easia.org/jrp/>

*2 The list of organizations participating in the 9th joint call for proposals in the field of "Climate Change":

- National Health and Medical Research Council (NHMRC), Australia
URL: <https://www.nhmrc.gov.au/>
- Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN), Indonesia
URL: <https://international.ristekdikti.go.id/>
- Japan Science and Technology Agency (JST), Japan
URL: <http://www.jst.go.jp/EN/index.html>
- Ministry of Science and Technology (MOST), Lao PDR
URL: <https://www.most.gov.la/index.php/en>
- Department of Science and Technology (DOST-PCIEERD), Philippines
URL: <http://pcieerd.dost.gov.ph/>
- Russian Foundation for Basic Research (RFBR), Russia
URL: <http://www.rfbr.ru/rffi/eng/>
- National Science and Technology Development Agency (NSTDA), Thailand
URL: <https://www.nstda.or.th/en/index.php>
- National Research Council of Thailand (NRCT), Thailand
URL: <https://www.nrct.go.th/en>

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