

### Partnership and Networking (WP1)

No	1. Title of Collaborative Research	Name	Field of Study	Affiliation	Position/Title	Country/region target of the collaborative research
WP1-1	Forum on STI Ecosystem building, Focusing on Conducive Environment for Technology Transfer and Entrepreneurship	Mr. Peh Samnang	STI Ecosystem building & academic-industry collaboration	Ministry of Industry, Science, Technology & Innovation (MISTI)	Deputy Director	Japan and Cambodia
WP1-2	Engagement of line ministries to promote the co-creation of M&E framework for the Cambodia National Research Agenda (NRA)	CHEAT Sophal	Ph.D. of Pathology, Toxicology, Genetic and Nutrition University of Toulouse III, Toulouse (France)	Director of Department of Policy Monitoring, Inspection & Evaluation	Project Director	Cambodia
WP1-3	Integrated Actions and Community Empowerment for Peatland and Mangrove Restoration and Sustainable Development through Bio-village Concept	Prof. Dr. Wahyu Dwianto, M.Agr.	Wood Science and Forest Product Technology	Research Center for Biomass and Bioproducts, National Research and Innovation Agency	Professor	Indonesia, Japan, and ASEAN Countries
WP1-4	Establishment of Science, Technology and Innovation Club	Ngech Horng HEANG	Environmental Engineering	National Institute of Science, Technology and Innovation	Head of Office	Cambodia-Thailand
WP1-5	Capacity Building and Engagement on Environmental Issues and Solutions	THENG Vouchlay	Civil and Environmental Engineering	Faculty of Hydrology and Water Resources Engineering, Institute of Technology of Cambodia	Lecturer-Researcher/ Dr. Eng.	Cambodia and Japan

### Energy and Environment (WP2)

WP2-1	Fuel Flexibility for Generating Facilities in the Low-Carbon Future: Computational-Risk Assessment and Techno-Economic Analysis of Agricultural Wastes Co-Firing in Thermal Power Plants	Dr. Mohammad Nurizat Rahman	Power Generation, Decarbonisation, Combustion, Advanced Computational Fluid Dynamics (CFD)	Generation Unit, TNB Research (Research arm of TNB – Malaysia's largest power utility company), Malaysia	Senior Generation Researcher	ASEAN
WP2-2	Powering Southeast Asia's Future: Identifying and Overcoming Barriers to Implementation	Soksreymeng Sdok	Biochemical Engineering	National Institute of Science, Technology and Innovation (NISTI)	Acting director	1. Phnom Penh, Cambodia 2. De La Salle University, Manila, Philippines 3. National Research and Innovation Agency (BRIN), Indonesia
WP2-3	Advances of Inorganic based Alkali Activated Materials Adsorbents for Heavy Metals Removal in Wastewater Treatment	Wan Mastura Binti Wan Ibrahim	Chemical Engineering and Technology, Green Technology and Environmental Technology	Faculty of Mechanical Engineering and Technology, Universiti Malaysia Perlis (UniMAP)	Senior Lecturer, Dr	Malaysia, Japan, Thailand
WP2-4	Sustainable Production of Value-Added Products and Energies from Oil Palm Residues and Plastic Waste Mixtures in the ASEAN Region	Bridgid Chin Lai Fui	Green Technology, Biomass and Plastics Conversion and Utilisation, Thermochemical Conversion	Curtin University Malaysia	Associate Professor	Malaysia, Thailand, Japan, Indonesia

<b>WP2-5</b>	Analysing issues and challenges of solar energy policy to support the Indonesian long-term development planning 2025-2045	Anugerah Yuka Asmara (PIC)	Science-Technology-Innovation (STI) Policy	Directorate for Policy Formulation of Research-Technology-Innovation (PKRTI), National Research and Innovation Agency (BRIN)	Researcher	Indonesia and Japan
<b>WP2-6</b>	Nano Catalyst Zeolite HZSM-5 Supported Metal Transitions for the Catalytic Conversion of non-edible Oils from Indonesia as an Alternative Source of Biofuel	Muhammad Al Muttaqii	Chemical Engineering and Material Science	National Research and Innovation Agency	Associate Researcher/Doctor	a)Japan-Partnership, Japan, Department of Chemical Engineering, Thermal Fluid Materials Engineering Laboratory, Hiroshima University-JAPAN b)Malaysia, Department of Chemical Engineering, Universiti Teknologi Mara (UiTM) Shah Alam c)Indonesia, Department of Chemical Engineering, University of Jambi (UNJA) d)Indonesia, Department of Chemical Engineering, Institut Teknologi Kalimantan (ITK) e)Indonesia, National Research and Innovation Agency (BRIN)

### Bioresources & Biodiversity (WP3)

<b>WP3-1</b>	Insight into plant cell wall degrading enzyme system of plant pathogenic fungi <i>Fusarium</i> sp. PSA-3	Assist. Prof. Paripok Phitsuwan (Ph.D.)	Lignin, Lignin and Carbohydrate Active Enzymes, Biomass Conversion	Division of Biochemical Technology, School of Bioresources and Technology, King Mongkut's University of Technology Thonburi, Bangkoktien, Bangkok 10150, Thailand	Assistant Dean for Special Activity	•Thailand and Japan
<b>WP3-2</b>	Molecular characterization and genetic diversity analysis of local mallard ducks in the Visayas Region, Philippines	Cyrill John P. Godinez	Population-Evolutionary Genetics; Animal Breeding and Genetics; Bioinformatics	Visayas State University	Instructor	Philippines and Japan
<b>WP3-3</b>	In-depth biochemical characterization of metagenome-derived lytic polysaccharide monoxygenase and application in biomass conversion	Verawat Champreda	Lignocellulose degrading enzymes, Metagenomes, and Biomass conversion	National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand	Principal researcher, Director Biorefinery and Bioproduct Technology Research Group	Japan, Thailand, and Malaysia
<b>WP3-4</b>	Development of environmentally-safe bait system for sustainable termite management based on lignocellulosic-biomass waste	Dr. Khoirul Himmi Setiawan	Sustainable termite management	Research Center for Applied Zoology, National Research and Innovation Agency (BRIN), Indonesia	Senior Researcher / Dr.	Indonesia, Japan, Malaysia

<b>WP3-5</b>	The Utilization of Lignin Nanoparticles and Essential Oils as the Active Substances in the Topical Formulation as the Sunscreen Cream	Witta Kartika Restu, Ph.D	Chemical Engineering; Macromolecular Chemistry	Research Center for Chemistry – National research and Innovation Agency (BRIN) Researcher	Researcher	Japan/Kobe/Kobe University; Malaysia/Universiti Sains Malaysia; South Korea/University of Ulsan
<b>WP3-6</b>	Application of potential fungal and bacterial isolates for biodegradation of new and emerging pollutants: textile dyes, textile wax, pesticides, antibiotics and plastics, in ASEAN countries	Dr. Dede Heri Yuli Yanto	Bioresource for bioremediation, applied microbiology and biotechnology	Research Center for Applied Microbiology, National Research and Innovation Agency (BRIN)	Research Professor / Dr.	BRIN (Indonesia), RISH Kyoto University (Japan), Chulalongkorn University (Thailand), Universiti Sains Malaysia (Malaysia), Universiti Teknologi Malaysia (Malaysia), Kyungpook National University (Republic of Korea)
<b>WP3-7</b>	Back to Nature: Unveiling physiological and ecological drivers of translocation success in slow loris	Abdullah Langgeng	Wildlife Conservation, Animal Welfare, Primate Ecology and Behavior, Wildlife Physiology	Wildlife Research Center, Kyoto University	DSc Student	Indonesia, Japan, France
<b>WP3-8</b>	Genomic characterization and Identification of selective genes underlying fruit quality traits of four wild Durian species from Indonesia and Malaysia for sustainable utilization	Dr. Agr. Yayan Wahyu Candra Kusuma, MSc.	Molecular Ecology, Biodiversity Conservation, Population and Conservation Genetics	Research Center for Ecology and Ethnobiology - BRIN	Senior Researcher/ Dr. Agr.	Indonesia, Malaysia and Japan
<b>WP3-9</b>	Innovation of Agarwood-Forming Mushroom as Bio-Induction Products - An Effort to Accelerate Agarwood Resin Production in Maluku Province	Dr. Ir. Rohny S. Maail, S.Hut, M.Si, IPU	Bioresources - Non Wood Forest Product	Department of Forest Products Technology, Faculty of Agriculture, Pattimura University, Ambon, Indonesia	Senior Researcher and Lecturer	Japan

#### Disaster Prevention and Risk Reduction (WP4)

<b>WP4-1</b>	Rainfall-Runoff Forecasting using Multiple Ensemble Technique for Dam Operations and Flood Advisory Improvements in Cagayan River Basin	Arlen S. Alejandro	Water resources engineering	National Irrigation Administration-Magat River Integrated Irrigation System-Dam and Reservoir Division (NIA-MARIIS-DRD)	Hydrologist	Philippines, Japan
<b>WP4-2</b>	Comparative assessment of riverbank erosion, causes, and ecosystem-based countermeasures in Asian countries	DOAN VAN BINH	Water Resources Engineering/Management	Vietnamese-German University, Vietnam	Lecturer	Vietnam, Japan, Philippines
<b>WP4-3</b>	Flooding adaptation and good practice for cultural heritage sites in Thailand and ASEAN+.	Witiya Pittungnapoo	Architecture, flood resilient design and cultural heritage preservation.	Naresuan University	Deputy Dean for Academic and Research Affairs/ Associate Professor	Thailand, Vietnam, ASEAN+, and Japan