

Priority Topics for future collaboration proposed by SAC Members in Hanoi

	Materials	Alternative Energy	Agriculture(Food)	Disaster Risk Reduction and Management	Advanced Interdisciplinary Research towards innovation	Environment (Climate Change, Marin Science)	Health Research(Infectious Diseases, Cancer)
Past calls	(1st) “Nanotechnology and Materials” (4th) “Functional Materials” (6th) “Functional Bio–Nanotechnology for Innovative Materials System	(5th) “Bioenergy” (7th) “Bioenergy”	(1st) “Biomass and Plant Science”	(5th) “Disaster Risk Reduction and Management” (7th) “Torrential Rainfall, Associated Flood and Land Slide”	(5th) “Intelligent Infrastructure for Transportation” (6th) “Intelligent Infrastructure for Energy”		(2nd) “Infectious Diseases” (3rd) “Infectious Diseases” (5th) “Infectious Diseases”, “Cancer” (6th) “Infectious Diseases”, “Cancer”
Japan	1) Functional Bio–Nanotechnology for Innovative Materials System 2) Materials Informatics for Materials Integration		Utilization of Genetic resources of native animal species in Asia for Healthy and Functional Food	Resilience against Natural Disasters for Sustainable City	Intelligent Infrastructure for Water		Diagnosis, prevention and therapy of cancers caused by infectious diseases.
Lao PDR		a) Biomass power generation and heat utilization b) Biofuel for Transportation c) Building low carbon society					
NZ							Infectious Diseases and Cancer
Philippines	Nanotechnology from indigenous materials (Cellulose nanopaper from bamboo)	a) Small wind turbine design, development and testing; b) Functional materials for alternative energy sources, c) energy conversion, harvesting and storage	a) Nanotechnology for agriculture (· Nanocapsules, nanoparticles and nanoemulsions as smart delivery systems of active ingredients for disease and pest control in plants · Nanomaterials for water or liquid agrochemical retention in the soil for slow release to the plants) b) Animal genetic resources conservation, improvement and utilization (· DNA marker–aided selection and breeding and assisted reproduction biotechnologies for native pig conservation and utilization · Genetic characterization, improvement and utilization of Philippine native chickens) c) Aquaculture, biodiversity, genomics (· Propagation of Philippine native catfish (Clarias macrocephalus) to protect its wild population)		a) Smart grid (Intelligent smart grid technologies, Power grid data analytics, Smart grid, Communications and information technologies, Distributed energy resources and network integration, Intelligent Micro–grid applications) b) Mechatronics (Mechatronics applications to Internet of Things, Robotics and intelligent autonomous systems, Electromechanical Human–Machine Interaction, Embedded Sensors Networks for Mechatronic Applications)	a) Marine Science – Marine Geology; b) Climate Change – Functional materials and nanocomposites for adsorptive gas separation, storage and removal (e.g. carbon dioxide capture, storage of methane and hydrogen)	(1) Functional foods; and (2) Diagnostics for infectious diseases (IDs) and non–communicable diseases (NCDs)(rased by DOST–PCAARRD after SAC meeting in Hanoi)
Russia						Environment, 'Climate Change Global Warming, Heat Wave, Marine geology	Infectious Diseases and Cancer Medicare
Thailand		Biomass Energy; Biofuel; Biodiesel; Bioethanol; Co–firing	Agricultural Adaptation to Climate Change for Sustainable production and Consumption			Best Practices on Waste Management and Waste to Energy	a) Biomedical research for Precision medicine b) Regenerative Medicine
USA							1.Standardized and specific health statistic information on morbidity and mortality of important diseases by demographic variables such as age, sex, urban/rural, etc 2.“One Health” studies of the relationships between human & animal health and the environment, e.g., influenza, arboviruses, antibiotic use in agriculture 3. Infectious diseases 4. Infection–associated cancers, HIV/AIDS–related cancers 5. Study of oral cancer and risk factors 6. Screening, early detection, and treatment of nasopharyngeal cancer 7. Evaluation of natural products and traditional medicines
Vietnam			1) Advanced technology for agriculture, farming and food 2) Biosecurity for improving market access for farmers 3) Soil, water and managing natural resources 4) adoption of advanced technology, R&D, focusing on flexible delivery of extension services				