Global Joint Research

SICORP

Strategic International Collaborative Research Program

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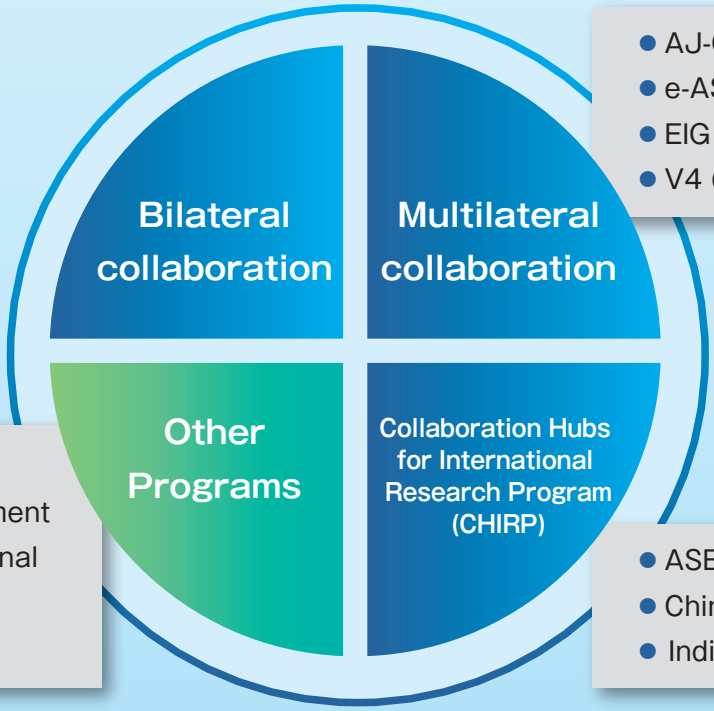
JST has implemented international joint research program SICORP since FY2009, based on inter-ministerial agreements with countries and regions and in S&T research fields that have been strategically prioritized by Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT). SICORP aims to tackle global challenges and bolster Japan's S&T capabilities through collaboration with a broad range of countries. JST liaises with funding agencies in counterpart countries and regions, and provides funding to international joint research projects on an equal partnership basis.

Programs in SICORP

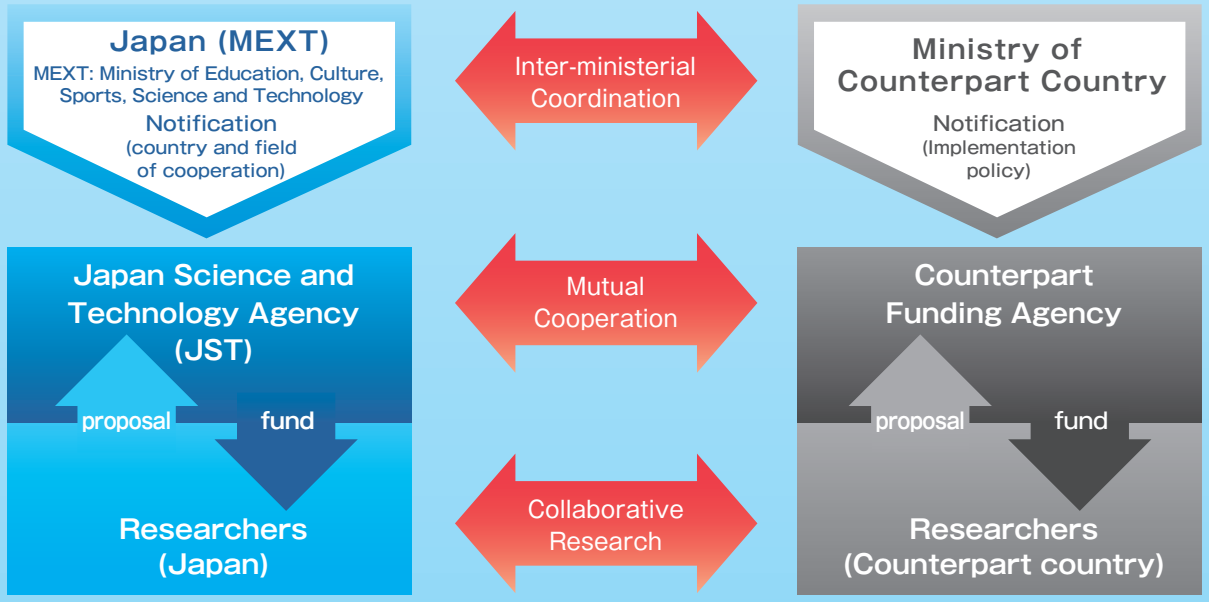


- AJ-CORE
- e-ASIA JRP
- EIG CONCERT-Japan
- V4 (Czech, Hungary, Poland and Slovakia)

- Belmont Forum
- Infrastructure Development for Promoting International S&T Cooperation
- J-RAPID

- ASEAN Countries
- China
- India

Program Structure



Multilateral international collaboration programs can vary by funding mechanism.
For details, please check the SICORP website or contact JST's Department of International Affairs.

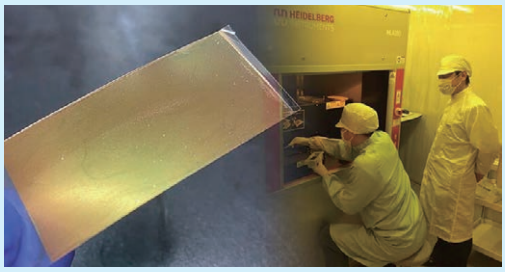
SICORP

Bilateral Collaboration

▶ Research period : 3 - 5 years
Funding : ¥5 - 100 million per project per year to the Japanese side
Start : FY2009 -

Accelerating scientific and technological development through international collaboration

Active international collaboration is key to the excellence of mutual scientific and technological endeavors. Aiming at further development of science and technology, JST is enhancing active international research collaborations through solid partnerships with counterpart countries.



Theme	【Germany】 Novel plasmonic materials and nanostructures for ultrasensitive and reproducible SERS/OW/LSPR biosensing for biomedical applications
Project Leader	TAMIYA Eiichi, Professor, AIST-Osaka University Advanced Photonics and Biosensing Open Innovation Laboratory

SICORP | Multilateral collaboration

AJ–CORE

Africa-Japan Collaborative Research

▶ Research period : 3 years
Funding : ¥6 million per project per year to the Japanese side
Start : FY2021 -

Africa-Japan multilateral research and innovation partnership

AJ-CORE (Africa-Japan Collaborative Research) is a multilateral research framework connecting three (or more) countries: Japan, South Africa, and at least one other African country.
Researchers from other African countries cooperate on an equal-partnership basis with those from Japan and South Africa, together contributing to issues of local and global significance.

e-ASIA JRP

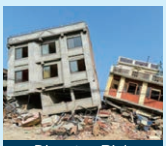
The East Asia Science and Innovation Area Joint Research Program

▶ Research period : 3 years
Funding : ¥11.7 million per project per year to the Japanese side
Start : FY2012 -

Tackling Asia's regional challenges through equal partnership

The e-ASIA Joint Research Program (e-ASIA JRP) is an international joint initiative between public funding organizations of the East Asia Summit member countries. With a central focus on Southeast Asia, the e-ASIA JRP co-funding mechanism aims to strengthen regional research and development capabilities and resolve common challenges in the region.

Fields of Cooperation


Disaster Risk Reduction and Management


Alternative Energy


Agriculture (Food)

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

EIG CONCERT-Japan

Coordinating European Research and Technology Development with Japan

▶ Research period : 3 years
Funding : ¥6 million per project per year to the Japanese side
Start : FY2013 -

Aiming to further develop science and technology cooperation between Europe and Japan

CONCERT-Japan began as a platform for international research cooperation activities under the EU's Seventh Framework Programme for Research and Technological Development (FP7).
After the conclusion of the FP7 iteration in December 2014, activities continued under the new European Interest Group (EIG) CONCERT-Japan name with 13 science, technology and innovation (STI) funding agencies from 11 European countries and Japan (as of 2019) partnering to further research collaboration and exchange. Through STI policy knowledge sharing, research exchange, network building and joint funding calls, the program supports Japanese-European research collaboration in a variety of fields.

EIG CONCERT JAPAN
Connecting and Coordinating European Research and Technology Development with Japan

http://www.concert-japan.eu/

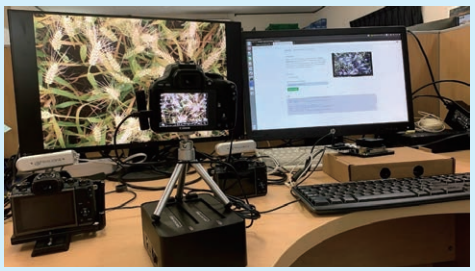
Theme	Food Crops and Biomass Production Technologies ①Phytopathogens: a good Opportunity to Improve crop yieldS and quality under changing Environmental conditions (POISE) ②Towards a multi-approach study focused on Improving Resource Use Efficiency in Cereals under climate change
Project Leaders	①ITOH Kimiko, Niigata University, Professor ②MITSUI Toshiaki, Niigata University, Professor

Collaboration Hubs for International Research Program (CHIRP)

Research period : 5 years
Funding : ¥5 - 100 million per project per year to the Japanese side
Start : FY2015 -

Measuring the spread of local societal outcomes from the formation of international partnerships based on hubs

This program promotes long-term collaboration in International Joint-Research Hubs together with ASEAN countries, India and China. It aims to stimulate open innovation through cooperation between Japanese and local researchers, and connect with industry to provide direct solutions to locally and globally shared challenges.



Remote collaborative development environment at the University of Tokyo's Field Phenomics Research Laboratory: Development of Edge-Computing toolkit through remote collaboration with Indian counterpart.

Theme	Data Science-based Farming Support System for Sustainable Crop Production under Climatic Change	
Project Leaders	Japan	NINOMIYA Seishi, Project Professor, Graduate School of Agricultural and Life Science, The University of Tokyo
	India	Uday Desai, Professor Emeritus, Indian Institute of Technology Hyderabad

Other Programs

Belmont Forum

Research period : 3 - 5 years
Funding : ¥5 - 10 million per project per year to the Japanese side
Start : FY2012 -

A high level group meeting of the worldwide organizations involved in funding global environmental change research

The Belmont Forum gathers the world's major and emerging funders of global environmental change research and international science councils to mobilize and coordinate resources towards its mission of advancing environmental sustainability research. The Forum works closely with the scientific community as well as other key actors such as the Future Earth initiative.

http://www.belmontforum.org/

J-RAPID

Research period : 6 months - 1 years
Funding : ¥several million per project per year to the Japanese side
Start : FY2011 -

Putting to use the lessons learned from urgent research and investigation of large-scale disasters towards restoration and mitigating future disasters

The J-RAPID program supports collaboration between Japanese and overseas researchers in response to disasters, aiming to play an initial response role by promptly supporting research activities before more standard projects are implemented by the national government, academic societies, or others. J-RAPID supports joint projects in partnership with overseas funding agencies and research institutes.

Theme	Real-time monitoring of novel coronavirus (SARS-CoV-2) infections using wastewater-based epidemiology approach	
Project Leaders	Japan	HARAMOTO Eiji, Professor, Interdisciplinary Center for River Basin Environment, University of Yamanashi
	US	Kyle Bibby, Associate Professor, Department of Civil and Environmental Engineering and Earth Sciences, University of Notre Dame

Please check the SICORP website for details.

SICORP
Strategic International Collaborative Research Program

SUSTAINABLE DEVELOPMENT GOALS

https://www.jst.go.jp/inter/english/index.html

Facts and Figures

Strategic International Collaborative Research Program (SICORP)
※incl. SICP

594 projects with **42** Countries and Regions since 2003
(2003 - Jul. 2021)

Program Scheme

JST implements “top-down type” programs that provide support to international research projects with countries and regions and in fields of cooperation designated by MEXT on the basis of inter-ministerial coordination.

As of Oct 2021

Partners and Research Areas

SICORP | Bilateral Collaboration

＊1:The projects were transferred to AMED from 2015.

Counterpart country/ Region	Research area	Counterpart agency	Research term
Canada	Sustainable Water Use	Natural Sciences and Engineering Research Council of Canada (NSERC)	2014-2017
	Epigenetics of Stem Cells ＊1	Canadian Institutes of Health Research (CIHR)	2013-2017
China	Delivery of Fundamental Technologies for the Use of Plant-Microbe Symbiosis and Microbial Flora: Identification and Control of Biological Function	National Natural Science Foundation of China (NSFC)	2017-2020
	Research and Development to Find Solutions to Environmental and Energy Issues in Urban Areas	Ministry of Science and Technology (MOST)	2016-2018
	Genomics of Biodiversity: Exploring the Formation Mechanisms and Conservation of Biodiversity	National Natural Science Foundation of China (NSFC)	2015-2018
	Highly Efficient Energy Utilization	Ministry of Science and Technology (MOST)	2013-2015
EU	Advanced Biofuels and Alternative Renewable Fuels	European Commission Directorate-General for Research & Innovation (EC DG RTD)	2021-2023
	Technologies for first responders	European Commission Directorate-General for Migration and Home Affairs (EC DG HOME)	2019-2022
	Power Electronics	European Commission Directorate-General for Research & Innovation (EC DG RTD)	2016-2020
	Development of New Materials for the Substitution of Critical Metals	European Commission Directorate-General for Research & Innovation (EC DG RTD)	2013-2016
	Superconductivity	European Commission Directorate-General for Research & Innovation (EC DG RTD)	2011-2014
Finland	Information Systems for Accessibility and Support of Older People	Finnish Funding Agency for Technology and Innovation (Tekes)／Academy of Finland (AF)	2015-2017
France	Molecular technology	L'Agence nationale de la recherche (ANR)	2014-2019
	Information and Communication Science and Technologies (ICT)		2010-2013
Germany	Hydrogen Technologies	Bundesministerium fur Bildung und Forschung (BMBF)	2021 selection
	Optics and Photonics [Second Stage]		2020-2023
	Optics and Photonics [First Stage]		2018-2021
	Nanoelectronics	Deutsche Forschungsgemeinschaft (DFG)	2010-2014
Israel	ICT for a Resilient Society	Ministry of Science and Technology (MOST)	2015-2021
New Zealand	Functional Foods	Ministry of Business, Innovation and Employment (MBIE)	2015-2016
	Bioscience and Biotechnology		2009-2013
Russia	"Rational nature management including Arctic Research" and "Energy efficiency"	Ministry of Science and Higher Education of the Russian Federation (MON)	2019-2021
Singapore	Development of Fundamental Technology for Biodevices Enabling	Agency for Science, Technology and Research (A*STAR)	2015-2018
	Dynamic Analysis and Control of Cells		
Sweden	Innovative Solutions, Community Design and Services for Elderly People	Verket for innovationssystem (VINNOVA)	2016-2021
Switzerland	Research on Hydrogen as a renewable energy carrier	Swiss National Science Foundation (SNSF)	2018-2021
UK	Marine Sensors Proof of Concept	The Natural Environment Research Council (NERC)	2017-2021
USA	Digital Science for Post-COVID-19 Society	National Science Foundation (NSF)	2021-2023
	Big Data and Disaster Research (BDD)		2014-2017
	Metabolomics for a Low Carbon Society		2011-2016
USA/UK/ France/Canada	COVID-19 Research in Non-Medical Sciences	National Science Foundation (NSF) UK Research and Innovation (UKRI) Agence nationale de la Recherche (ANR) National Research Council Canada (NRC)	2021

Partners and Research Areas

SICORP | Multilateral collaboration

＊1:The projects were transferred to AMED from 2015.

As of Oct 2021

Program	Research area	Research term
AJ-CORE (Africa-Japan Collaborative Research)	Environmental Science	2021-2023
e-ASIA JRP	Materials "Material Informatics and advanced material research by utilizing computers"	2021 selection
	Environment "Marine Science and Climate Change"	2021 selection
	Countermeasures for COVID-19 Urgent Joint Call	2020-2021
	Advanced Interdisciplinary Research towards Innovation (Water Resource Management)	2021-2023
	Environment (Climate Change Impact on Natural and Human Systems)	2021-2023
	Agriculture (Food)	2020-2022
	Materials (Nanotechnology)	2020-2022
	Disaster Risk Reduction and Management (Torrential Rainfall, Associated Flood and Land Slide)	2019-2022
	Alternative Energy (Bioenergy)	2019-2022
	Materials (Nanotechnology)	2017-2021
	Advanced Interdisciplinary Research towards Innovation "Intelligent Infrastructure for Energy"	2017-2021
	Alternative Energy "Bioenergy"	2017-2019
	Disaster Risk Reduction and Management	2016-2019
	Advanced Interdisciplinary Research towards Innovation "Intelligent Infrastructure for Transportation"	2016-2019
	Infectious Diseases ＊1	2015-2017
	Materials (Nanotechnology)	2014-2017
	Biomass and Plant Science, Nanotechnology and Materials	2012-2015
EIG CONCERT-Japan	Sustainable Hydrogen Technology as Affordable and Clean Energy	2021 selection
	ICT for Resilient, Safe and Secure Society	2021-2023
	Smart Water Management for Sustainable Society	2020-2022
	Functional Porous Materials	2019-2022
	Efficient Energy Storage and Distribution	2018-2021
	Food Crops and Biomass Production Technologies	2017-2021
	Photonic Manufacturing	2014-2016
'Science, Technology and Action' Nexus for Development (STAND)	Sustainable development in South East Asia - marine science, water related issues or urban environment etc.-	2021-2022
Japan, China and Korea	Energy Saving, Disaster Prevention, Water Cycle	2013-2015
V4 (Czech, Hungary, Poland and Slovakia)	Advanced Materials (2nd Edition)	2021-2024
	Advanced Materials (1st Edition)	2015-2018

Collaboration Hubs for International Research Program (CHIRP)

As of Oct 2021

Counterpart country/ Region	Research area	Counterpart agency	Research term
ASEAN Countries	Environment/Energy, Bioresources, Disaster prevention		2020-2024 2015-2020
India	Information and Communications Technology	Department of Science & Technology (DST)	2016-2021
China	Environmental and Energy: Japan-China E2C Environmental and Energy: Collaboration Projects	Ministry of Science and Technology (MOST)	2019-2023 2019-2021

Other Programs

Belmont Forum

Research area	Research term
Towards Sustainability of Soils & Groundwater for Society	2021-2023
Disaster Risk, Reduction and Resilience (DR3)	2020-2022
Resilience in Rapidly Changing Arctic Systems	2020-2022
Transdisciplinary Research for Ocean Sustainability	2020-2023
Science-driven e-Infrastructures Innovation	2019-2022
Transformations to Sustainability	2018-2022
Sustainable Urbanisation Global Initiative: Food-Water-Energy Nexus	2018-2022
Climate Predictability and Inter-Regional Linkage	2016-2019
Scenarios of Biodiversity and Ecosystem Services	2015-2016
Arctic Observing and Research for Sustainability	2015-2019
Food Security and Land-Use Change (type1, type2)	2014-2017

J-RAPID

Disaster supported (name)	Counterpart agency	Research term
The Coronavirus Disease 2019 (COVID-19)	USA (NSF), UK (UKRI), France (ANR)	2020
Anak Krakatau volcano eruption and tsunami in Indonesia	Ministry of Research, Technology and Higher Education (RISTEKDIKTI)	2019
The 2016 Kumamoto Earthquake	USA, New Zealand, Thailand, Nepal	2016
April 2015 Nepal earthquake	Ministry of Population and Environment (MoPE)	2015-2016
Typhoon Yolanda	Department of Science and Technology (DOST)	2014
2011 Thai floods	National Science and Technology Development Agency (NSTDA)	2012
The Great East Japan Earthquake	USA (NSF / NIH / NCAR), UK (ADMLC), France (ANR), Indonesia (LIPI)	2011-2012

Japan Science and Technology Agency
Department of International Affairs
7, Gobancho, Chiyoda-ku, Tokyo, 102-0076 JAPAN
Tel. +81-3-5214-7375
https://www.jst.go.jp/inter/english/index.html

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