Collaboration with Japan

Organisers:
Olga Gritsai (University of Amsterdam)
Yoshie Kawahito (Osaka University)

23rd Annual EARMA Conference Malta,
April 24th-26th 2017
Programme

1) "Research funding landscape for Europe-Japan collaboration"
   - Yoshie Kawahito, Osaka University
   - Yasuhiro Isobe, Hiroshima University
   - Katsuhiko Tomita, Kobe University
   - Tamaki Suzuki, Kyoto University

2) "JSPS programmes for Europe-Japan collaboration"
   Prof Nobuo Ueno, Japan Society for the Promotion of Science (JSPS) London

3) "JST programmes for Europe-Japan collaboration"
   Kumiko Nakayama, Deputy Director, Japan Science and Technology Agency (JST) Paris Office
Discussion

- Questions to the speakers

- Practical experience of Europe-Japan collaboration (successes, difficulties, solutions)

- How to promote Europe-Japan collaboration in the future: the role of RMA’s, possible further steps
Introducing RMAN-J: Research Manager and Administrator Network Japan

- What can we do together?

- Forms of collaboration (information exchange, mutual learning visits, bringing together researchers and research areas (match-making); analyzing best practices)

- Possible formats
Research funding landscape for Europe-Japan collaboration seen from a wider perspective

Yoshie KAWAHITO, Osaka University
Yasuhiro ISOBE, Hiroshima University
Katsuhiko TOMITA, Kobe University
Tamaki SUZUKI, Kyoto University
Contents

- Growing attention to international research collaboration in Japan
- Research funding landscape for Europe-Japan collaboration
- Role of RMAs in promoting Europe-Japan research collaboration
- RMAs in Japan
- Our message to RMAs in Europe
Increasing attention to international research collaboration in Japan

- **Backgrounds**
  - Growing demands on researchers to contribute to solve global issues
  - University reform led by the government
  - Important national policies and initiatives
    - The 5th Science and Technology Basic Plan
    - National University Reform Plan
    - The Program for Promoting the Enhancement of Research Universities
  - Expectations for RMAs in Japan to promote international research collaboration
Research funding landscape for Europe-Japan collaboration

How much do you know about the research funding landscape for Europe-Japan Collaboration?
### Research funding landscape for Europe-Japan collaboration

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Example of funding programs</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Mobility</td>
</tr>
<tr>
<td>Europe</td>
<td>• Horizon 2020</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>• Domestic funds in each country</td>
<td>✔</td>
</tr>
<tr>
<td>International</td>
<td>• Human Frontier Science Program</td>
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</tr>
</tbody>
</table>
# Research funding landscape for Europe-Japan collaboration

## Example of funding programs

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<tr>
<td></td>
<td>Mobility</td>
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<tr>
<td>Japan+Europe</td>
<td></td>
</tr>
<tr>
<td>• JSPS Core-to-Core Programme</td>
<td>✓</td>
</tr>
<tr>
<td>• JSPS Bilateral Programme</td>
<td>✓</td>
</tr>
<tr>
<td>• JST SICORP (Bilateral/Multilateral Programme)</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>• Belmont Forum</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>• EU-Japan Joint Call</td>
<td>✓ ✓</td>
</tr>
<tr>
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<td></td>
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<tr>
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</table>

Let’s discover more options today!
Research funding landscape for Europe-Japan collaboration

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<thead>
<tr>
<th>Country/Region</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domestic funds in Japan</strong></td>
<td>Mobility</td>
</tr>
<tr>
<td>Japan</td>
<td>• Internal funds in each university</td>
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<tr>
<td></td>
<td>• JSPS Grants-in-Aid Scientific Research &lt;KAKENHI&gt;</td>
</tr>
<tr>
<td></td>
<td>• JSPS Fellowship programmes</td>
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<td>• Domestic funds in each country</td>
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# Research funding landscape for Europe-Japan collaboration

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<th>Country/Region</th>
<th>Example of funding programs</th>
<th>Purpose</th>
</tr>
</thead>
</table>
| **Japan**      | • Internal funds in each university
  • JSPS Grants-in-Aid Scientific Research (KAKENHI)
  • JSPS Fellowship programmes |
| **Japan+ Europe** | • JSPS Core-to-Core Programme
  • JSPS Bilateral Programme
  • JST SICORP (Bilateral/Multilateral Programme)
  • Belmont Forum
  • EU-Japan Joint Call |
| **Europe**     | • Horizon 2020
  • Domestic funds in each country |
| **International** | • Human Frontier Science Program |

**Mobility**

**Research activities**

*Important for new projects!*
Role of RMAs to promote Europe-Japan collaboration

How could you see research funding landscape for Europe-Japan Collaboration?

Grant support (For research activities)

Research development

New ideas, networks

Research activities

Output

New ideas, networks

Research activities

Output
Role of RMAs to promote Europe-Japan collaboration

- **Grant support** (For research activities)
  - Research development
- **Support for new project formation** (For researcher exchange)
  - New ideas, networks
  - Research activities
  - New ideas, networks
  - Output
Role of RMAs to promote Europe-Japan collaboration

Grant support (For research activities)

RMAs collaboration!

Support for new project formation (For researcher exchange)
Cases of four Japanese Universities to promote Europe-Japan collaboration

- Joint symposium & internal fund for new project formation
- Searching for research partners & RMAs exchange
- Crossover approach for multiple connections
- Plan & coordination among the three parties

- Hiroshima Univ.
- Kobe Univ.
- Kyoto Univ.
- Osaka Univ.
RMAs in Japan
(since 2011, referred to as **URAs:** University Research Administrators)

Engaged in:
- Grant support
- Project management
- University planning

- **2011**
  MEXT’s Program for the Development of Systems to Foster and Secure Research Administrators

- **2013**
  MEXT’s Program for Promoting the Enhancement of Research Universities

- **2015**
  Research Manager and Administrator Network Japan (RMAN-J) formed

- **2016**
  RMAN-J joined INORMS

Number of RMAs: 700+
Thank you for your attention. Let’s **work together** to promote research collaboration between Europe and Japan!

- Yoshie KAWAHITO, Osaka University
  kawahito@lserp.osaka-u.ac.jp
- Yasuhiro ISOBE, Hiroshima University
  isobe@hiroshima-u.ac.jp
- Katsuhiko TOMITA, Kobe University
  tomita.k@port.kobe-u.ac.jp
- Tamaki SUZUKI, Kyoto University
  suzuki@kura.kyoto-u.ac.jp
Additional Information 01
Case of Hiroshima University
Exchanges between the two universities date back to the early 1950s. Hiroshima University’s founding President sent a letter to a number of universities around the world, asking them to help Hiroshima University resurge from the A-bomb ashes. University of Muenster was one of the universities which kindly and swiftly responded to the President’s request by sending HU seeds and plants for its campus reconstruction.
<table>
<thead>
<tr>
<th>Level</th>
<th>Projects / Events / Agreements</th>
<th>Disciplines</th>
<th>Faculties / Schools / Offices Involved</th>
<th>Related University Missions</th>
<th>Used / Planned Funding</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional</td>
<td>Joint proposal for Horizon 2020 &quot;Memories of War&quot; (2015)</td>
<td>History; Anthropology; Geology; Education; International Relations</td>
<td>Faculty of History &amp; Philosophy; Innovation Office; European Research Services Center</td>
<td>Graduate School of GS. Letters; GS. Integrated Arts and Sciences; GS. Education; GS. Int'l Development and Cooperation Research Planning Office (RPO)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>University-Wide MOU (since 2017)</td>
<td>Various</td>
<td>Int’l Office</td>
<td>Int’l Ex. Group; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meetings 4th DFG Japan Office (2017)</td>
<td>Various</td>
<td></td>
<td>RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ideas Mining Workshop for HU’s PEACE Program (since 2017)</td>
<td>Various</td>
<td>Innovation Office</td>
<td>Int’l Ex. Group; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Departmental MOU (since 2012)</td>
<td>Physics</td>
<td>Faculty of Physics</td>
<td>HGSOR; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Departmental MOU (since 2012)</td>
<td>Philosophy</td>
<td>Faculty of History &amp; Philosophy</td>
<td>GS. Letters; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Mathematical Bridge Calendar&quot; (since 2017)</td>
<td>Education</td>
<td>Innovation Office</td>
<td>GS. Education; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term friendship and academic collaborations)</td>
<td>Chemistry</td>
<td>Faculty of Chemistry &amp; Pharmacy</td>
<td>GS. Science; GS. Engineering; RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Muenster-Hiroshima 2020 (entitled tentatively)&quot;</td>
<td>Various</td>
<td>Vice Rector for Int’l Affairs (also professor of Philosophy)</td>
<td>RPO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HU’s presidential visit (May 2017)</td>
<td>Medicine</td>
<td>Int’l Office; Faculty of Medicine; University Hospital</td>
<td>Int’l Ex. Group; RPO</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations:
University of Muenster (Westfälische Wilhelms-Universität): WWU / Hiroshima University: HU / Memorandum of Understanding: MOU / Graduate School: GS / Research Managers and Administrators: RMAs / Research Planning Office: RPO (most RMAs at HU belong to this office) / Hiroshima Synchrotron Radiation Center: HiSOR / German Research Foundation (Deutsche Forschungsgemeinschaft): DFG / Japanese Ministry of Education, Culture, Sports, Science, and Technology: MEXT / Project of Effective Action with CLMV’s (Cambodia, Laos, Myanmar, and Vietnam) Education: PEACE
Additional Information 02
Case of Kobe University
Kobe Smart City Project by Kobe City Government and Kobe University

April 26th 2017

Katsuhiko TOMITA
(tomita.k@port.kobe-u.ac.jp)
Kobe City

5th largest city in Japan population of 1,540,000
Basic policies of the Japanese government & Kobe Smart City Project

- **Realization of a Super Smart Society**

  Drastic transformation of social and economic structures
  Increasingly complexity of global issues
  Increase of serious problems in cities

  Resolution by realizing a **Super Smart Society** (⇒ Society 5.0)
  (1.0: Hunting Society ⇒ 2.0: Agrarian Society ⇒ 3.0: Industrial Society ⇒ 4.0: Information Society)

  **Super Smart Society** [Government initiative]
  - Smart grid
  - Smart mobility
  - Smart infrastructure
  - Smart regional community care
  - Smart manufacturing

Launched in 2015

**Kobe Smart City Project** [Kobe City initiative]

<my role as RMA is total project coordination>
The Kobe Smart City Project: international aspects

<My aim>

The active promotion of the Kobe Smart City Project in order to collaborate in advanced areas concerning Smart Cities in the EU

<2016 (past)>

• Mutual exchange programs between Barcelona and Kobe
  ① Sharing Best Practices to promote Smart Cities
  ② Workshop on effective utilization of governmental open data

<2017 ~ (from now on)>

• Collaboration to create a mutual exchange program between x? and Kobe

x?
in EARMA Member

KOBE

RMA’s role in EARMA
Promotion of Information Technology

Kobe City × Barcelona City
Open data Visualization Workshop

“World Data Viz Challenge 2016”

① Fostering an innovative kind of workforce
② Creating open data case studies
Promotion of Information Technology

1st Stage
June @Barcelona

2nd Stage
October @Kobe
Promotion of Information Technology

New Partnership with the Sentilo Community

We welcome Kobe as a new Sentilo supporter

We’re very happy that Kobe Municipality, in Japan, has joined the Sentilo community as a new supporter. Kobe is the sixth-largest city in Japan and is the capital city of Hyogo Prefecture. With a population around 1.5 million, the city is part of the Keihanshin metropolitan area along with Osaka and Kyoto.

Kobe representatives state, about joining the Sentilo Community: “We are glad to participate in the Sentilo community as supporters. Kobe is promoting city development by utilizing ICT, and we can learn a lot of things from the case of Sentilo of Barcelona City. Now, we are considering how we can utilize Sentilo for our city development, and we really appreciate if we continue to exchange information in each other.”

Kobe is considered one of the most smart cities in Asia, with programs intended to green their building stock or to transform its municipal water and waste management practices.

Kobe Municipality website:

http://www.city.kobe.jp/foreign/english/
Additional Information 03
Case of Kyoto University
Kyoto University; Joint Symposium and Internal Fund for new Project Formation
- Model on the KU-Bordeaux collaboration on the Material Science Field

**International Fund**

**Binational Fund (Japan-Europe)**

**JSPP International Joint Research Program**
(2013-2015, KU-BD) (Prof. Sagawa, KU)

**KU-Internal Support**

**1st Kyoto-Bordeaux Symposium**
May 5-6, 2014, Bordeaux, 11 Research Topics

**SPIRITS (2014-2016)**
KU Supporting Program for Interaction-based Initiative Team studies (Prof. Fukami, KU)

**2nd Kyoto-Bordeaux Symposium**
May 21-23, 2015, Kyoto, 8 Research Topics

**JST-SICORPS**
“Development of optically active flexible materials based on molecular assembly-templated chiral hybrid nanostructures”
(2015-2018, KUM-KU-BD) (Prof. Ihara, KUM)

**CNRS-Laboratoire International Associe (LIA)**
“Chiral Nanoobjects for Photonic Application”
(2015-2019, Bordeaux-KU-KUM)

**Erasmus+ International Student Exchange**
(2016-2018, BD-KU)

**Double Degree Program**
For Ph.D from 2017

**Concluded Student Exchange Agreement; KU-BD**

**RMAs support from both Kyoto (KURA) and Europe (KU-European Center)**
Additional Information 04
Case of Osaka University
Osaka University (OU)

National Research University
11 departments, 16 graduate schools
23 research institutes & centers, 2 hospitals, 4 libraries
3,196 faculty,
3,249 researchers, administrative and medical staff
23,371 students
Numbers are as of May 1st, 2016

No.63 in QS World University Ranking 2016/2017

No.18 in the TR the World’s Most Innovative Universities 2015
No.5 Immunology, No.1 Biology & Biochemistry,
No.2 Chemistry, No.1 Plant & Animal Science

on TR’s list of “The World’s Most Influential Scientific Minds” for 2016

No.1 in Japan
#DOITALL  Osaka University at a Glance (as of 2017)

11 Schools
Letters
Human Sciences
Foreign Studies
Law
Economics
Science
Medicine
Dentistry
Pharmaceutical Sciences
Engineering
Engineering Science

16 Graduate Schools
Letters
Human Sciences
Law and Politics
Economics
Science
Medicine
Dentistry
Pharmaceutical Sciences
Engineering
Engineering Science
Language and Culture
International Public Policy
Information Science and Technology
Frontier Biosciences
Law School
Child Development

Research Institutes, Centers and Facilities
Research Institute for Microbial Diseases
The Institute of Scientific and Industrial Research
Institute for Protein Research
Institute of Social and Economic Research
Joining and Welding Research Institute
Low Temperature Center
Research Center for Ultra-High Voltage Electron Microscopy
Radioisotope Research Center
Research Center for Environmental Preservation
Center for International Education and Exchange
International Center for Biotechnology
Research Center for Solar Energy Chemistry
The Museum of Osaka University
Health Care Center
Global Center for Medical Engineering and Informatics
Center for Mathematical Modeling and Data Science
Center for Scientific Instrument Renovation and Manufacturing Support
Center for Japanese Language and Culture
Institute for NanoScience Design
Intellectual Property Center
Research Center for Nuclear Physics
Cybermedia Center
Institute of Laser Engineering

4 University Libraries
Main Library
Life Sciences Library
Science and Engineering Library
International Studies Library

2 University Hospitals
Osaka University Hospital
Osaka University Dental Hospital

Osaka University Nakanoshima Center

Administration Bureau
Example of internal fund for international collaboration

**International Joint Research Promotion Program**

- This program is a first step toward the establishment of international joint labs in all research fields.
- The Visiting Researcher (overseas researcher) must conduct research at Osaka University during at least one month in total each year.
- Max. 3 years
- 60,000$/FY
Cases of collaboration with European RMAs and OU

RMAs in Aarhus University visited OU in May 2014
- Seminar on RMA system
- Training program on grant writing

RMAs in UvA visited OU in February 2016
- Workshop on International collaboration for RMAs
- Joint-research-potentials mining

[Contact] Yoshie Kawahito (kawahito@lserp.osaka-u.ac.jp)
Research Management and Administration Section,
Office of Management and Planning, Osaka University
JSPS (Japan Society for the Promotion of Science)

- JSPS Programmes for Japan-Europe collaboration -

Nobuo Ueno
Director
JSPS London

For EARMA
26 April 2017
Rooster: Harbinger of new knowledge that promises a brilliant future for humankind.

Japan Society for the Promotion of Science

日本学術振興会

The Japanese largest funding agency

- Established through an endowment by Emperor Showa in 1932

Photo of JSPS steering meeting in May 1937. The 1st funding began in 1939.
Funding Agency for “Science”

• JSPS idea
  We support *curiosity-driven* researches in natural/social sciences, engineering and humanities. No priority field.

• JSPS funds
  – Grant to research projects:
    (Grant-in-Aid, “KAKENHI”: €2,000,000,000/70,000 projects)
    • For researchers at Japanese Institutions, regardless of their nationality.
  – Fellowships: 6,000 Japanese pre-/post-docs.
  – International collaborations: Bi- & multi-lateral etc.

Mobility by International programmes (per year): 10,000 researchers from pre-docs to professors
What we do

- Support for research initiatives
  Competitive research funding: Grants-in-Aid

- Fostering the next generation of researchers
  Research fellowships for young scientists

- Support for university reform
  Joint programs with MEXT

- International collaborations
  Collaborations with overseas partners
Four JSPS Overseas in Europe, 10 in the world

Number of Researchers by JSPS International Programmes (FY2015)

<table>
<thead>
<tr>
<th></th>
<th>Europe → Japan</th>
<th>Japan → Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe → Japan</td>
<td>1,368</td>
<td></td>
</tr>
<tr>
<td>Japan → Europe</td>
<td>2,168</td>
<td></td>
</tr>
</tbody>
</table>
International Collaboration Programmes

**INSTITUTION**
- Multilateral
  - Core-to-Core Programme

**GROUP**
- Bilateral
  - Based on MoUs
  - Open Partnership Joint Projects/Seminars

**INDIVIDUAL**
- Europe → Japan
  - Postdoctoral Fellowships
  - Invitation Fellowships
- Japan → Europe
  - Postdoctoral Fellowships for Research Abroad
  - Overseas Research Fellowships
  - Overseas Challenge Program for Young Researchers
International Collaboration Programmes

Core-to-Core Programme, Bilateral Programme, Fellowships

Visiting researchers are expected to do collaborative works in host researchers’ labs.

Host

Researcher

Host

Researcher
International Collaboration Programmes

Europe → Japan

Postdoctoral Fellowships, Invitation Fellowships

M.phil  PhD  Postdoc (6 years after PhD)  Mid-career  Professor  Distinguished Professor

Postdoctoral Fellowships

(Standard) 1 - 2 years

(Short-term) 1 - 12 months

Invitation fellowships

(Long-Term) 61 days – 10 months

(Short-Term) 14 - 60 days

(Short-Term S) 7 - 30 days

Summer Programme

2 months

- Support all research fields
- 633 European researchers to Japan in FY2015
International Collaboration Programmes

Europe → Japan
Postdoctoral Fellowships, Invitation Fellowships

- Eligibility
- Duration etc.
International Collaboration Programmes

Japan → Europe
Fellowship programmes

- **Overseas Research Fellowships**
  - 2 years, 142 awardees to Europe

- **Research Fellowships for Young Scientists**
  - 2 - 3 years, 5708 awardees

- **Overseas Challenge Program for Young Researchers**
  - 3 - 12 months, 140 awardees

- **KAKENHI**
  - “Fostering Joint International Research”
  - 6 – 12 months, 400 awardees
International Collaboration Programmes

Bilateral Programme “based on MoU”

<table>
<thead>
<tr>
<th>Funding Agencies etc.</th>
<th>MoU</th>
<th>Support</th>
<th>Proposal</th>
<th>Joint projects</th>
<th>Seminars</th>
<th>Scientist Exchanges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overseas Researcher group</td>
<td>JSPS</td>
<td>Support</td>
<td>€ 20,000/yr for 2 yrs</td>
<td>Proposal</td>
<td></td>
<td></td>
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<tr>
<td>Japanese Researcher group</td>
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</tbody>
</table>

177 Projects in FY2016

<table>
<thead>
<tr>
<th>Country</th>
<th>Agency 1</th>
<th>Country</th>
<th>Agency 2</th>
<th>Country</th>
<th>Agency 3</th>
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<tbody>
<tr>
<td>Austria</td>
<td>FWF</td>
<td>Germany</td>
<td>DAAD, DFG</td>
<td>Russia</td>
<td>RFBR</td>
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<tr>
<td>Belgium</td>
<td>FNRS, FWO</td>
<td>Hungary</td>
<td>HAS</td>
<td>Slovakia</td>
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<tr>
<td>Czech</td>
<td>CAS</td>
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<td>CNR</td>
<td>Slovenia</td>
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<td>Finland</td>
<td>AF</td>
<td>Netherlands</td>
<td>NWO</td>
<td>Spain</td>
<td>CSIC</td>
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<td>France</td>
<td>CNRS, Inria, Inserm, MAEDI, IHES</td>
<td>Norway</td>
<td>RCN</td>
<td>Sweden</td>
<td>STINT, VINNOVA</td>
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<td>Poland</td>
<td>PAN</td>
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<td>Ukraine</td>
<td>SFFR</td>
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</tbody>
</table>
International Collaboration Programmes

Bilateral Programme without MoU
“Open Partnership”

Funding Agencies etc.

Overseas Researcher group

Support expected

Joint projects
Seminars

Japanese Researcher group

JSPS

Support
€ 20,000/yr for 2 yrs

Proposal

74 Projects in FY2016

<table>
<thead>
<tr>
<th>Country</th>
<th>Projects</th>
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<th>Projects</th>
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<td>Russia</td>
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<td>Denmark</td>
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<td>Italy</td>
<td>2</td>
<td>Spain</td>
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<td>Latvia</td>
<td>1</td>
<td>Sweden</td>
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<td>Finland</td>
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<td>4</td>
<td>Switzerland</td>
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<tr>
<td>France</td>
<td>8</td>
<td>Netherlands</td>
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<td>Georgia</td>
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<td>Germany</td>
<td>7</td>
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</tbody>
</table>
International Collaboration Programmes

Core-to-Core Programme

Multilateral & Institutional collaboration

• Promote International collaboration in cutting edge fields by creating world-class research hubs.
• Foster new generations of talented young researchers in Japan and other countries.

37 Projects in FY2017 with European countries

<table>
<thead>
<tr>
<th></th>
<th>Belgium</th>
<th>Netherlands</th>
<th>Denmark</th>
<th>Norway</th>
<th>Finland</th>
<th>Russia</th>
<th>France</th>
<th>Sweden</th>
<th>Germany</th>
<th>Switzerland</th>
<th>Italy</th>
<th>UK</th>
<th>Belgium</th>
<th>Netherlands</th>
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<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>18</td>
<td>3</td>
<td>24</td>
<td>7</td>
<td>8</td>
<td>23</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Up to €150,000 /yr for 5 yrs

Their own funds required
JSPS Alumni Associations in Europe

• maintain and develop linkages with Japan
  ➔ long-lasting collaboration, not “one time visit.”

• Exclusive programmes for the members
  “BRIDGE fellowship”

• Symposiums & Networking events

<table>
<thead>
<tr>
<th>Country</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denmark</td>
<td>35 members</td>
</tr>
<tr>
<td>Finland</td>
<td>88 members</td>
</tr>
<tr>
<td>France</td>
<td>626 members</td>
</tr>
<tr>
<td>Germany</td>
<td>443 members</td>
</tr>
<tr>
<td>Sweden</td>
<td>166 members</td>
</tr>
<tr>
<td>UK &amp; Ireland</td>
<td>658 members</td>
</tr>
</tbody>
</table>
• 30,000 new projects every year
• 70,000 ongoing projects in total
• Total annual budget €2,000,000,000
• €40,000 ~ €4,000,000/project for 2~5 yrs

• Research grants for
  – Japan-based researchers
  – Curiosity-driven research
  – All research activities
    including international collaboration
Thank you for your kind attention

Feel free to contact us!

<table>
<thead>
<tr>
<th>JSPS Office</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSPS London Office</td>
<td><a href="mailto:enwuire@jsps.org">enwuire@jsps.org</a></td>
</tr>
<tr>
<td>JSPS Bonn Office</td>
<td><a href="mailto:info@jsps-bonn.de">info@jsps-bonn.de</a></td>
</tr>
<tr>
<td>JSPS Stockholm Office</td>
<td><a href="mailto:jsp-s-sto@jsps-sto.com">jsp-s-sto@jsps-sto.com</a></td>
</tr>
<tr>
<td>JSPS Strasbourg Office</td>
<td><a href="mailto:jsp@unistra.fr">jsp@unistra.fr</a></td>
</tr>
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</table>
Additional Information
UK-Japan Research Collaboration

Outputs in Top 10 citation percentile (%) of Joint Publications

Outputs in Top 1 citation percentile (%) of Joint Publications

Data source: Scopus
International Collaboration Programmes

Japan → Europe
Fellowship programmes

Agreement between JSPS and ERC

JSPS

Fellowship holders

Fellowship holders

Fellowship holders

JSPS Fellowships for Young Scientists

erc ERC

Grant holders

Grant holders

Grant holders

ERC Grants
JST programmes for Europe-Japan collaboration

Collaboration with Japan, EARMA 2017
26th April, 2017

Kumiko Nakayama
Deputy Director, JST Paris Office
# Major Funding Agencies in Japan

<table>
<thead>
<tr>
<th>Funding Agency</th>
<th>Budget (EUR)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSPS</td>
<td>2.58 Billion</td>
<td>Fostering young researchers and awarding Grants-in-Aid for scientific research</td>
</tr>
<tr>
<td>JST</td>
<td>0.88 Billion</td>
<td>Responsible for implementing S&amp;T policies in Japan</td>
</tr>
<tr>
<td>AMED</td>
<td>1.05 Billion</td>
<td>Engaging in R&amp;D in the field of medicine and providing funding</td>
</tr>
<tr>
<td>NEDO</td>
<td>1.16 Billion</td>
<td>Playing an important part in Japan's economic and industrial policies</td>
</tr>
</tbody>
</table>

1 EUR = 120 JPY

JST’s Outline

・JST is one of the major funding agencies responsible for the implementation of science and technology policy in Japan.

President: Dr. Michinari Hamaguchi

Establishment: October 1, 1996

Annual budget in FY2016: About 106 billion yen (882 million EUR) EUR=120 JPY

# of Employees: 1,227 (including about 200 PhDs) * As of March 2016

# of Institutes JST funds: 294 Universities, 126 Research Institutes and 470 Companies * As of Dec. 2014

# of R&D Projects JST funds: 4,485 Projects * As of Dec. 2014

# of Patents that JST holds: Approx. 5,800 * As of Dec. 2014
JST’s Primary Functions

1. Establishing R&D Strategies

2. Promoting S&T Innovation
   - Strategic Basic Research Programs
   - R&D Programs for Industry-Academia Collaboration
   - Promotion for International Cooperation
   - Leveraging the Intellectual Property

3. Building Infrastructure for S&T Innovation
   - Dissemination of Scientific and Technological Information
   - Promoting Science Education
   - Promoting Communication on S&T
JST Programmes for Global Collaboration

Bilateral International Collaboration

- SICP
- SICORP
- J-RAPID

Promoting Globalization on Strategic Basic Research Programs

Multilateral International Collaboration

- BELMONT FORUM
- e-ASIA JRP

R&D Support of Collaboration with Developing Countries (Partnership with JICA)

- SATREPS

SICORP: Strategic International Collaborative Research Program
J-RAPID: Japanese Grants for Rapid Response Research
CONCERT-Japan: Connecting and Coordinating European Research and Technology Development with Japan
SATREPS: Science and Technology Research Partnership for Sustainable Development
Strategic International Collaborative Research Program (SICORP)

- Based on intergovernmental agreements or agreements at ministerial-level meetings
- Countries and research fields of cooperation are designated by MEXT

Program Scheme

- JST and the counterpart agency fund joint research projects in the designated field.

1) Acceleration type
   5M~10M JPY/project/year
   (40K ~80K EUR/project/year)

2) Core-Team type
   10M~30M JPY/project/year
   (80K ~240K EUR/project/year)

3) Consortium type
   30M~50M JPY/project/year
   (240K ~400K EUR/project/year)

4) Collaboration Hubs for International Research Program (CHIRP)
   50M ~100M JPY/project/year
   (400K~800K EUR/project/year)

※1 EUR=125 JPY
S&T Cooperation with European Countries

Share of Funding under SICORP (FY2011-2015)

Bilateral Collaboration (On-going)

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Counterpart Funding Agency</th>
<th>Research Area</th>
<th>Number of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>EC-DG RTD</td>
<td>Power Electronics</td>
<td>1</td>
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<tr>
<td>France</td>
<td>ANR</td>
<td>Molecular Technology</td>
<td>12</td>
</tr>
<tr>
<td>Finland</td>
<td>Tekes/AF</td>
<td>Information Systems for Accessibility and Support of Older People</td>
<td>3</td>
</tr>
<tr>
<td>Sweden</td>
<td>Vinnova</td>
<td>Innovative Solutions, Community Design and Services for Elderly People</td>
<td>4</td>
</tr>
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</table>
## Multilateral Collaboration (On-going)

<table>
<thead>
<tr>
<th>Program</th>
<th>Country/Region</th>
<th>Counterpart Funding Agency</th>
<th>Research Area</th>
<th>Number of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>V4-Japan</td>
<td>Czech Republic, Hungary, Poland, Slovakia</td>
<td>MEYS/NKFIH/NCBR/SAS/IVF</td>
<td>Advanced Materials</td>
<td>5</td>
</tr>
<tr>
<td>EIG CONCERT-Japan</td>
<td>Spain, Turkey, Germany, France</td>
<td>MINECO/TÜBİTAK/DLR/CNRS</td>
<td>Food and Biomass Production Technologies</td>
<td>5</td>
</tr>
<tr>
<td>Belmont Forum</td>
<td>16 countries/regions and 3 international organizations</td>
<td></td>
<td>Food Security and Land-Use Change</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Arctic Observing and Research for Sustainability</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Climate Predictability and Inter-Regional Linkages</td>
<td>2</td>
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<tr>
<td></td>
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<td></td>
<td>Sustainable Urbanisation Global Initiative: Food-Water-Energy Nexus</td>
<td>Under review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Transformations to Sustainability</td>
<td>Under review</td>
</tr>
</tbody>
</table>
European Interest Group (EIG) for Japan
14 countries
Flexible structured platform for communication and coordination among STI agencies of European countries and Japan are interested in cooperation

EIG CONCERT-Japan Consortium
9 countries
Institutions entered into a simple Memorandum of Cooperation to continue the collaboration established in the ERA-NET CONCERT-Japan in further joint calls

Funding Organisations Forum (FOF)
Ad hoc group of institutions taking part in a particular collaborative funding activity (e.g. joint call, thematic workshop, etc.)

Multilateral joint calls (& thematic workshops?)
Thematic/strategic workshops
Seminars/conferences
Prioritisation

ERA-NET CONCERT-Japan
EIG CONCERT-Japan

Japan Science and Technology Agency
4th Joint Call Pre-Announcement

“Efficient Energy Storage and Distribution” Joint Call: will soon be launched!

- Support period: 3 years
- Having mobility and networking dimensions
- Project consortium should consist of at least 3 partners (1 from Japan and 2 from two different European countries).

Participating Funding Institutions (expected):

- **Japan**: Japan Science and Technology Agency (JST)
- **France**: Centre national de la recherche scientifique (CNRS)
- **Spain**: Ministry of Economy and Competitiveness (MINECO)
- **Germany**: German Federal Ministry of Education and Research (BMBF)
- **Turkey**: Scientific and Technological Research Council of Turkey (TÜBITAK)
- **Lithuania**: Agency for Science, Innovation and Technology (MITA)
- **Norway**: Research Council of Norway (RCN)
- **Slovakia**: Slovak Academy of Sciences (SAS)
- **Czech Republic**: Czech Academy of Sciences (CAS)
The Joint Call Text and Submission process will soon be published on the EIG CONCERT-Japan website: concert-japan.eu

For more information on the EIG CONCERT-Japan, feel free to contact the Joint Call Secretariat: concert-japan-jcs@cnrs.fr

## Overseas Branch Office

<table>
<thead>
<tr>
<th>Country</th>
<th>City</th>
<th>Date of Foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>Paris</td>
<td>1984/2/1</td>
</tr>
<tr>
<td>U.S.A</td>
<td>Washington D.C.</td>
<td>2004/12/1</td>
</tr>
<tr>
<td>Singapore</td>
<td>Singapore</td>
<td>2009/7/1</td>
</tr>
<tr>
<td>China</td>
<td>Beijing</td>
<td>2002/4/22</td>
</tr>
</tbody>
</table>

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Deputy Dir.: Ms. Naoko Yasuo
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Deputy Dir.: Ms. Kumiko Nakayama
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**Singapore Office**
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E-mail: info-138667@jstsg.org

**Beijing Office**
Director: Mr. Hidekazu Chayama
Deputy Dir.: Mr. Taku Iwaki
E-mail: jstbj@jst.org.cn
Thank you for your kind attention

info@jstparis.net
Paris Office
Japan Science and Technology Agency (JST)