



JSPS

# JSPS and its International Programs

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Japan Society for the Promotion of Science



# **Who we are and What we do**

Create World-class  
Knowledge in Diverse  
Fields

*Competitive Research Funding:  
Grants-in-Aid*

Foster Next Generation  
of Researchers who  
Challenge to Create  
New Genres of  
Knowledge

*Research Fellowships for  
Young Scientists*

Improve  
Education/Research  
Functions that  
Leverage Strengths of  
Universities, etc.

*Joint Programs with MEXT*

Build Robust International Research Base

*Collaborations with Overseas Partners*

Build Comprehensive Academic Information Analysis Base

*Research Center for Science Systems-from Researchers' Perspective*

Prime Minister

Cabinet Office

Council for Science, Technology  
and Innovation (CSTI)

Provides frameworks  
for S&T policy  
General coordination

**MEXT**

Ministry of Education,  
Culture, Sports, Science  
and Technology

**METI**

Ministry of Economy,  
Trade and Industry

**MHLW**

Ministry of Health,  
Labour and Welfare

**Other  
Ministries**

Provides S&T  
policies and  
budget



**JSPS**

Japan Society for the Promotion of Science  
(Curiosity-driven Approach)  
Bottom-up Approach

**JST**

Japan Science and Technology Agency  
(Mission-oriented Approach)  
Top-down Approach

**NEDO**

**AMED**

(2015-)

Funding

Universities and Research Institutes

Researchers

## **What is JSPS:**

- It is Japan's core funding agency.
- It places high value on both researcher autonomy and research diversity.

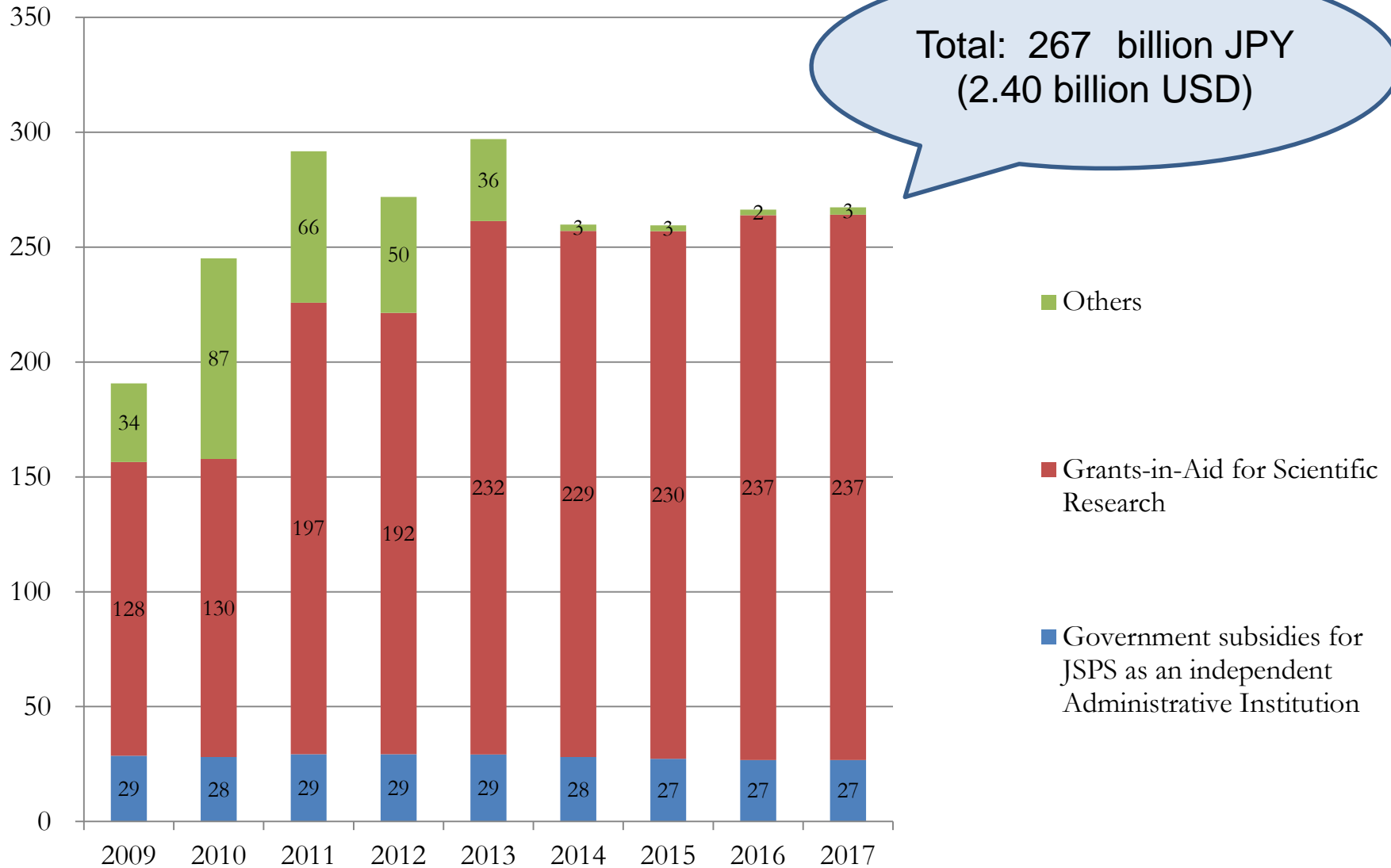
## **What does JSPS support:**

- From basic to applied research conducted based on the free ideas of researchers.
- Covers the entire spectrum of academic fields including humanities, social sciences, and natural sciences.

## **Application Selection:**

- Bottom-up approach; invite applications through open calls.
- Competitive funding; evaluate through peer review.
- Fair and transparent screening; select based on academic merit.

(Unit: Bill. Yen)



- Focus placed on mobilizing researchers.
- Aimed to establish robust international cooperative networks.

## **(1) Supporting International Joint Research and Seminars**

Bilateral Programs  
Core-to-Core Program

## **(2) Providing Platforms for International Training Opportunities for Young Researchers**

Frontiers of Science (FoS)  
Symposiums  
HOPE Meetings with Nobel Laureates

## **(3) Inviting Researchers to Japan**

Postdoctoral Fellowships for Overseas Researchers  
Invitation Fellowships for Research in Japan

## **(4) Sending Young Japanese Researchers Overseas**

Postdoctoral Fellowships for Research Abroad  
Doctoral Fellowships for Research Abroad

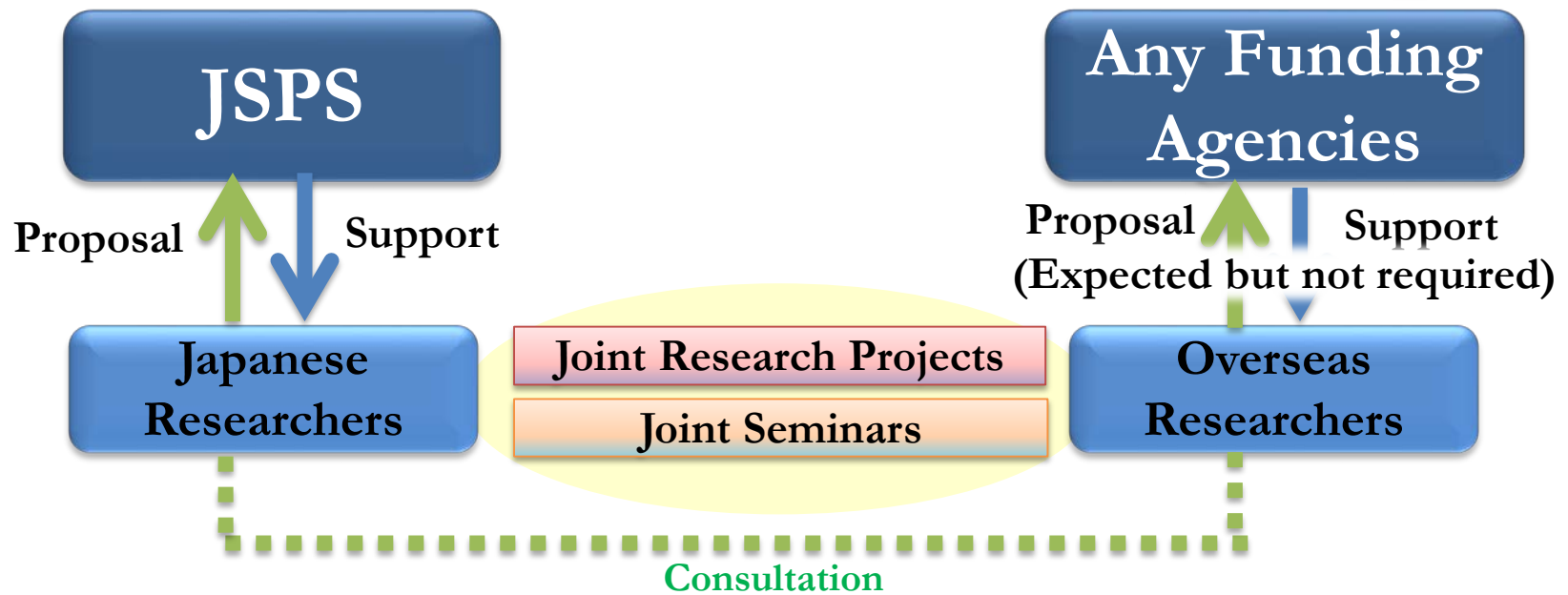
## **(5) Support Globalization of Universities**

Support through JSPS Overseas Offices



# Individual Support





	FY2016		FY2017		FY2018	
	Projects	Seminars	Projects	Seminars	Projects	Seminars
# of application	197	29	258	27	213	24
# of Taiwan	6	4	16	0	13	1
# of selected projects	46	6	45	5	46	5
# of Taiwan	2	1	2	0	2	1

Bilateral joint projects and seminars open to agencies of countries in diplomatic relations with Japan regardless of whether or not they have an MoU with JSPS.

#### Support for Japanese Team :

##### Joint Research:

Up to USD 18 thousand/year/project  
for two years

##### Joint Seminar:

Up to USD 18 thousand/ seminar



# Organizational Support

# Creating Research Hubs – Core-to-Core Program– JSPS

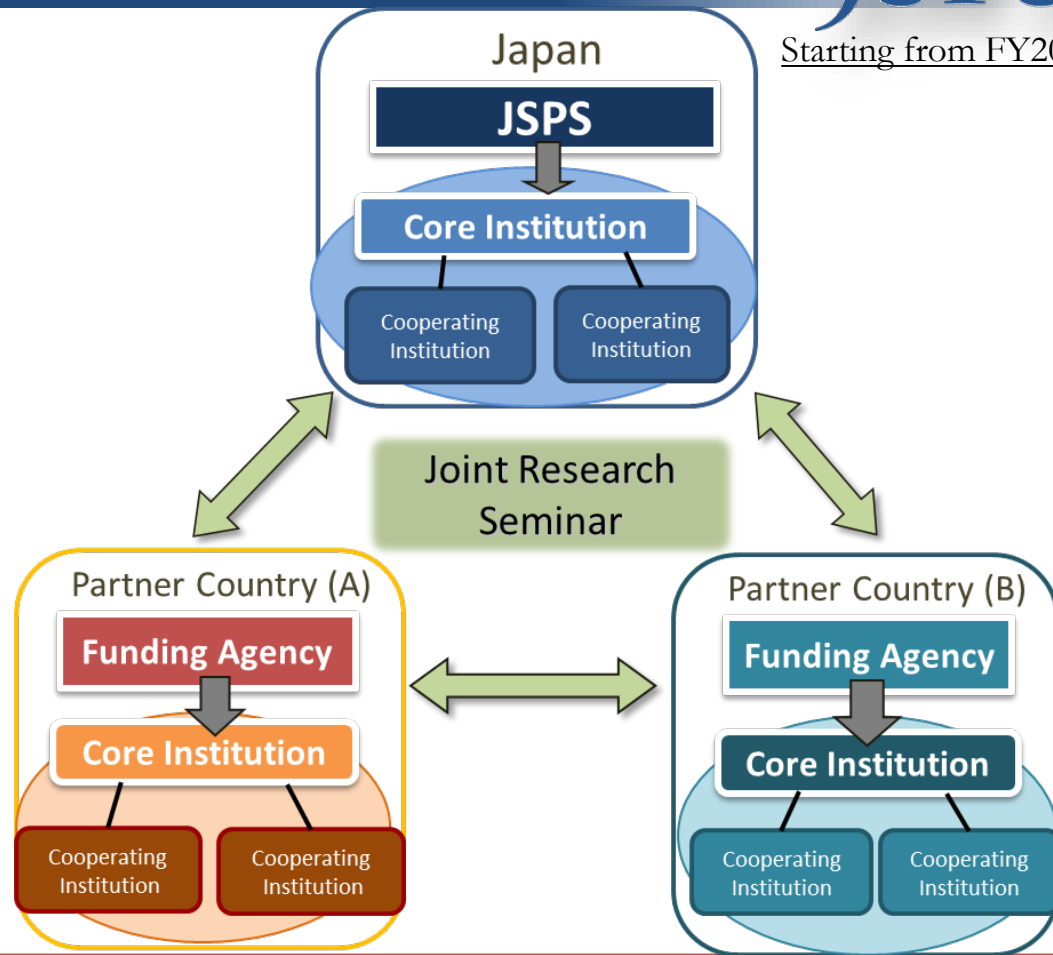
Starting from FY2012

## A. Advanced Research Networks

- Target: **Any country** in the world
- Objective:
  - 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
- Grants: Up to USD 160 thousand /year
- \*Partner institutions are required to cover their own expenses. (cf. international exchange fees etc.)
- Project Duration: 5 years

## B. Asia-Africa Science Platforms

- Target: Asian and/or African countries / regions
- Objective:
  - Japanese research institutions take the lead in building research hubs and fostering young researchers to contribute to Asian/African region
- Grants: Up to USD 70 thousand /year from JSPS
- Project Duration: 3 years



Number of applications/selected proposals

	FY2014		FY2015		FY2016		FY2017		FY2018	
	App.	Sel.	App.	Sel.	App.	Sel.	App.	Sel.	App.	Sel.
A. Advanced	41	8	45	7(1) *	54	7(3) *	55	8	59	8(2) *
B. Asia-Africa	56	10	41	10	77	12(1) *	70	12(1) *	77	10

( ) \* Number of projects which includes Taiwan as a partner

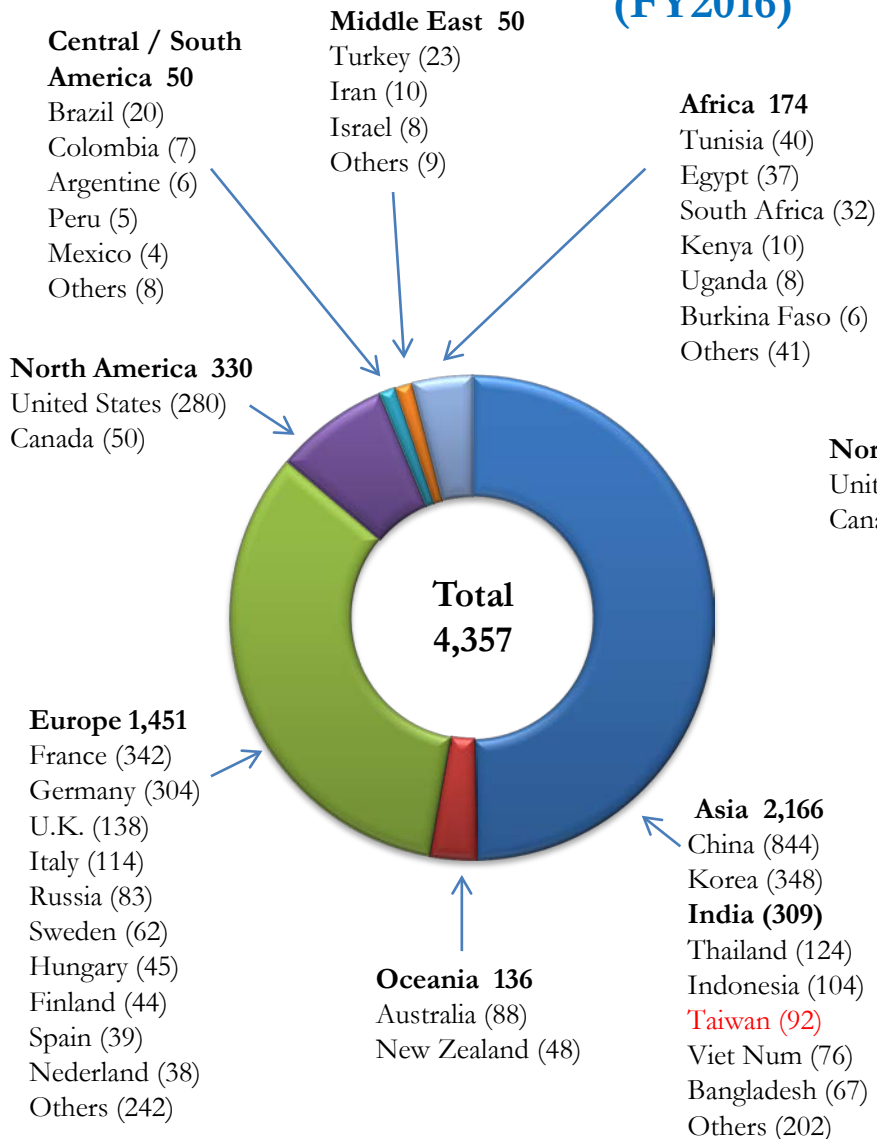


# **Sending and Inviting Researchers**

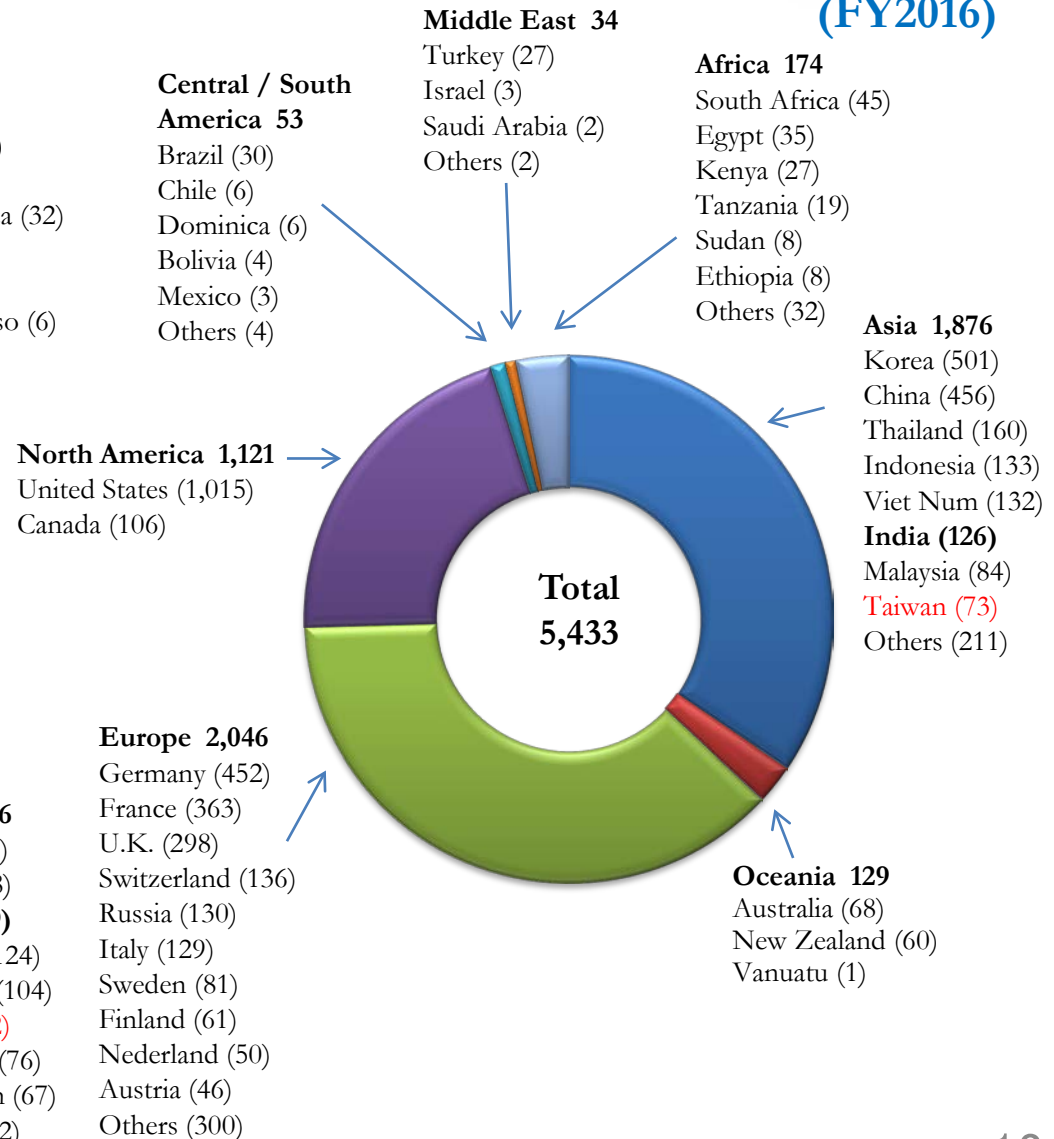
# Number of Researchers Exchanged under JSPS Programs

# JSPS

## ◆ Foreign Researchers → Japan (FY2016)



## ◆ Japanese Researchers → Abroad (FY2016)



## Overseas Research Fellowships<Individual Support>

Since 1982

**FY 2016: 411 persons / 24 countries**

**FY 2017: 405 persons / 27 countries**

Tenure: 2 years

Financial Support:

USD 42 -58 thousand / year /  
person

## Challenge Program for Young researchers

### ■ New Program (from FY 2017)

- ✓ This program gives doctoral students an opportunity to go overseas to challenge a new research environment
- ✓ Period of Overseas Stay: 3 to 12 months
- ✓ Financial Support: JPY 1 - 1.4 million (USD 9,000-13,000)/ dispatch
- ✓ Number of Participants: About 140

# Fellowship Programs to Japan

Ph.D



## Career Stages of Researchers

Nobel Prize  
level

Ph.D. Courses

6 years after Ph.D.

Mid career

Professor

Postdoctoral Fellowships  
for Research in Japan

Invitational Fellowships  
for Research in Japan

### Standard

1 - 2 years

About 240 (Open recruitment)

### Long-term

2 - 10 months

About 60

### Short-term

14 - 60 days

About 180

### Short-term S

7 - 30 days

A Few

### Summer Program

2 months  
About 100

(Nomination Only)

### Strategic Program

3 - 12 months  
About 50

### Short-term

1 - 12 months  
About 150

## Number of invited fellows <Taiwan>

		2017	2016	2015
Postdoctoral Fellowships		22	26	26
Invitation Fellowships	Long	1	1	2
	Short	3	2	3
	Short-S	0	0	0



# Fostering Young Researchers



# HOPE Meetings with Nobel Laureates

JSPS

## Outline

- Give opportunities for excellent PhD students and young researchers in the Asia-Pacific and Africa to engage in interdisciplinary discussions with Nobel laureates and their own peers.
- Foster future scientific leaders in the region
- Cultivate participants' wider perspectives and deepen their knowledge through various programs with the laureates and their peers.

## The 10<sup>th</sup> HOPE Meeting with Nobel Laureates

### Date& Place:

March 12-15, 2018, Yokohama

**Theme:** Physics, Chemistry, Physiology/  
Medicine and related fields

### Participants :

108 PhD students and young researchers  
from Japan, Australia, Bangladesh, China, Egypt, India,  
Indonesia, Israel, Kenya, Korea, Malaysia, Mongolia,  
Myanmar, Nepal, New Zealand, Philippines, Singapore,  
South Africa, Taiwan, Thailand, Turkey

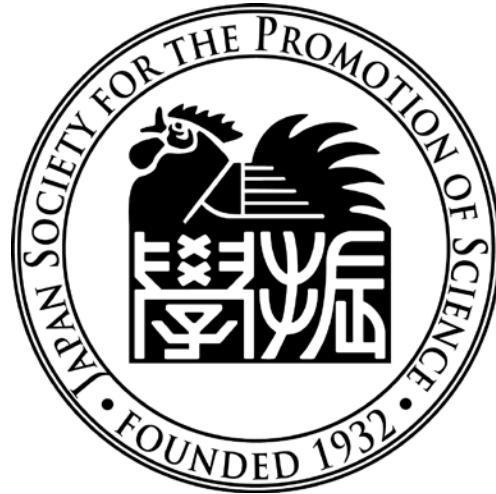


### Participating Nobel Laureates (10th Meeting)

Prof. Makoto Kobayashi (Physics 2008)  
Prof. Takaaki Kajita (Physics 2015)  
Prof. J. Georg Bednorz (Physics 1987)  
Prof. K. Barry Sharpless (Chemistry 2001)  
Prof. Ada Yonath (Chemistry 2009)  
Prof. J. Fraser Stoddart (Chemistry 2016)  
Prof. Tim Hunt (Physiology/Medicine 2001)



Thank you for your kind attention.



### **Crowing Rooster**

Harbinger of new knowledge that promises  
a brilliant future for humankind