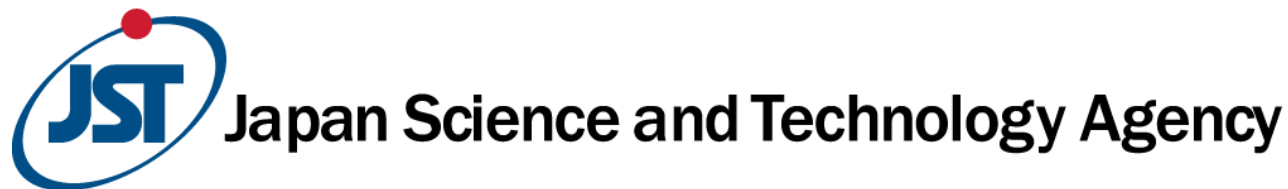
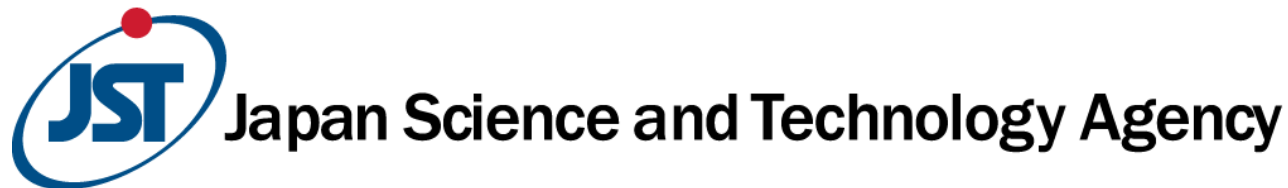


# Press Conference President of JST

February 15, 2022



# **The 3rd Brilliant Female Researchers Award (The Jun Ashida Award) Commemorative Lectures**



# The 3rd Brilliant Female Researchers Award (The Jun Ashida Award) Commemorative Lectures

**Objective:** The purpose of lectures is to widely announce winners and to help them become more active as world-class researchers on the opportunity of the award. In addition, the panel discussion will present role models towards younger generation through winners' talk of their works and experience.

**Intended Audience:** Scientists and researchers in all fields, and general public.

**Date and Time:** March 10, 2022 (Thu) 13:00 pm - 15:00 pm (JST)

**Venue:** Online (Zoom Webinar) for audience. \*The lectures will be held at the JST Tokyo Headquarters.

**Host:** Japan Science and Technology Agency

\* Latest information is posted on the website of Office for Diversity and Inclusiveness as needed.

<https://www.jst.go.jp/diversity/index.html>

## Commemorative Lectures

13:00 Opening speech Dr. Michinari Hamaguchi (President, JST)

13:05 Message from Chair "Looking back on history of the Jun Ashida Award"

Dr. Keiko Torii, (Johnson and Johnson Centennial Professor of Plant Cell Biology, University of Texas at Austin/Investigator, Howard Hughes Medical Institute)

## Lectures by winners of the Jun Ashida Award

13:15 Makiko Sasada, Associate Professor, Graduate School of Mathematical Sciences, The University of Tokyo (30 min.)

13:45 Mami Ima, Assistant Professor, Institute for Advancement of Clinical and Translational Science and Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Hospital (15 min.)

14:00 Mako Kamiya, Associate Professor, Graduate School of Medicine, The University of Tokyo (15 min.)

14:15 Panel Discussion Panelists: Dr. Makiko Sasada, Dr. Mami Ima, Dr. Mako Kamiya, President Hamaguchi and Executive Director Watanabe. (40 min.)

14:55 Closing speech Masaharu Shiozaki (Director, JST)

# The Award for a Brilliant Female Researcher (The Jun Ashida Award)

## ■ Winner and Award **Makiko Sasada**

Associate Professor, Graduate School of Mathematical Sciences,  
The University of Tokyo  
Research Fields: Mathematical sciences (probability theory)



## ■ Evaluation

Dr. Sasada uses algebra and geometric theory, which are seemingly unrelated to statistical physics and probability theory, in order to construct a new theory that explains the macroscopic parameters of systems, such as temperature and density. The macroscopic behaviors are derived from microscopic laws observed by systems, which are comprised of particles such as atoms and molecules.

Social contribution: Her outreach activities include creating the Suri-Joshi website, releasing videos on probability theory, and giving lectures. She is also dedicated to fostering women in the mathematical sciences, including serving as the International Mathematical Union's Committee for Women in Mathematics (CWM) ambassador.

## ■ Research Experience

- 2011 Assistant Professor, Department of Mathematics, Faculty of Science and Technology, Keio University
- 2014 Senior Assistant Professor, Department of Mathematics, Faculty of Science and Technology, Keio University
- 2015 Associate Professor, Graduate School of Mathematical Sciences, The University of Tokyo

## ■ Awards

- 2009 and 2011 Dean's Award, Graduate School of Mathematical Sciences, The University of Tokyo
- 2010 MSJ Takebe Katahiro Prize for Encouragement of Young Researchers
- 2011 JSPS Ikushi Prize
- 2011 The University of Tokyo President's Grand Award
- 2012 ESF-JSPS Frontier Science Conference Series for Young Researchers Excellent Presentation Award

# The Award for a Brilliant Female Researcher (The JST President Award)

## ■ Winner and Award

### Mami Ima

Assistant Professor, Institute for Advancement of Clinical and Translational Science and Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Hospital  
Research Fields: Life science and radiology



## Evaluation

Dr. Ima has developed a new and non-invasive diagnostic imaging method for cancer that minimizes the burden on the human body. Using diffusion-weighted MRI, her method extracts and utilizes information from various images to provide quantitative parameters (IntraVoxel Incoherent Motion) that can evaluate tissue microperfusion without the use of contrast agents. As a researcher linking clinical and basic research, she has made remarkable achievements to guide the selection of treatment methods and predict treatment effects and prognosis.

Social contribution: she helps disseminate science information globally by establishing international working groups with related fields, and promoting networking among domestic and overseas researchers. She also fosters future researchers.

# The Award for a Brilliant Female Researcher (The JST President Award)

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## ■ Winner and Award

### Mako Kamiya

Associate Professor, Graduate School of Medicine, The University of Tokyo

Research Fields: Chemical Biology

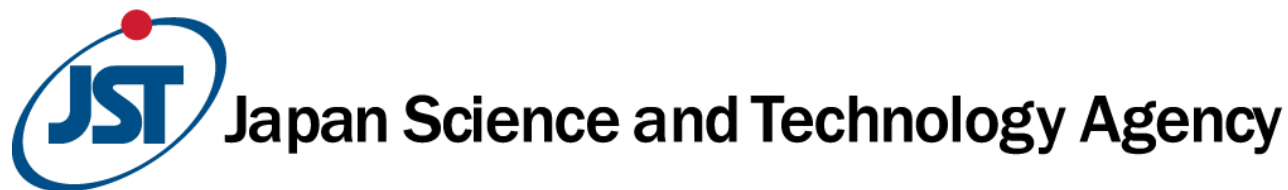


## Evaluation

Dr. Kamiya is engaged in the development of various kinds of novel photo-functional probes such as fluorescent probes for innovative bioimaging. Her research is characterized by the rational design of these probes through precise functionalization of small-molecular dyes. Especially, in recent years, she has been conducting highly original research, including development of activable Raman probes for multiplexed functional imaging.

Social contribution: she is actively involved in the training of future researchers and in activities to transmit the excitement of science to the general public.

# Call for FY2022 Fostering the Next Generation Human Resources Program



# Call for FY2022 Fostering the Next Generation Human Resources Program

JST is currently calling for organizations in 3 programs that support human resource development activities for science and technology in cooperation with universities.

## Global Science Campus (Support up to 4 years)

Aiming to develop the next generation of prominent science and technology (S&T) human resources who can play an active role globally in the future, this program, "Global Science Campus" (GSC), supports universities's activities of advanced and systematic educational programs including international activities, **calling for and selecting high school students** with outstanding level of motivation and abilities in each region.

Amount of Funding: Up to ¥30 million/year

Number of Projects: 4 projects planned

Deadline of Application: (Tue.) March 8th 2022 12:00 am (JST)

JST holds the National Presentation Meeting every year as an opportunity for GSC students to share their research results. In FY2021, Yuzuha Kusunoki won the MEXT Minister's Award in her research "Breeding biology of Daurian Redstarts *Phoenicurus aureus* in Daisen, Tottori prefecture."





# Call for FY2022 Fostering the Next Generation Human Resources Program

## Fostering Next-generation Scientists Program (Support up to 5 years)

This program supports activities for **elementary and junior high school students** who have higher motivation and outstanding ability in science and mathematics field with systematic educational program aiming at further expanding their abilities.

Amount of Funding: Up to ¥10 million/year      Number of Projects to be selected: 10 planned

Deadline of Application: (Thu.) March 10th 2022 12:00 am (JST)

## Support for Girl Students Choosing Science Courses (Support up to 4 years)

The program aims to support girl **junior- and senior-high school students** by increasing their interests in scientific fields and by assisting teachers and parents to understand their selection of S&T fields as future careers, and to promote a system that continuously supports girl students who are unsure of selecting scientific courses for their future careers.

Amount of Funding: Up to ¥3 million/year      Number of Projects to be selected: 10 to 15

Deadline of Application: (Fri.) February 25th 2022 12:00 am (JST)



# Today's Lecture



Dr. Nakayama

## Dr. Nakayama Ichiro

**President, the Japan Fisheries Research and Education Agency (FRA)  
Research Fellow, Institute of Industrial Science, The University of Tokyo**

- Project Leader, Development of Next Generation Sustainable Aquaculture System, “Sustainable Society” mission area, JST-Mirai Program.

### Education:

B.S.(in Fisheries), School of Fisheries Sciences, Hokkaido University (1984)

M.A., Graduate School of Environmental Science, Hokkaido University (1987)

Ph.D., Docteurdel' Universite Paris VI (1991)

### Career:

National Research Institute of Aquaculture, Fisheries Research and Education Agency (1994)

Deputy Director of Director General for Council for Science and Technology, Cabinet Office (2001)

Japan Fisheries Research Agency (2003)

Counsellor, Resources Enhancement Promotion Department, Fisheries Agency (2011)

National Research Institute of Fisheries Engineering, Japan Fisheries Research and Education Agency (2015-2018)

Aquaculture Research Adviser, R&D Central Research Center, Nippon Suisan Kaisha, Ltd. (2018)

President, Japan Fisheries Research and Education Agency (2021)