

## 16th (FY2019) JSPS Prize recipients

| NAME                | AFFILIATION   | RESEARCH TITLE   |
|---------------------|---|--|
| ANDO Kazuya         | Associate Professor, Faculty of Science and Technology, Keio University   | Creation and Development of Spin Current Source Driven by Magnetic Dynamics  |
| IKEDA Fumiyo        | Professor, Medical Institute of Bioregulation, Kyushu University  | Understanding the Regulatory Mechanisms of Inflammation by Ubiquitin   |
| ISHIZAKI Akihito    | Professor, Institute for Molecular Science, National Institutes of Natural Sciences                                   | Theoretical Development of Quantum Dissipative Dynamics and Its Application to Primary Processes of Photosynthesis                                 |
| UCHIDA Ken-ichi     | Group Leader, Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science         | Development of Fundamental Physics of Spin Caloritronics and Its Application to Thermal Energy Engineering   |
| KATO Kengo          | Associate Professor, Department of Statistics and Data Science, Cornell University                                    | Research on Statistical Theories for Analyzing Big Data and High-dimensional Data  |
| KAWAI Shigeki       | Principal Researcher, International Center for Materials Nanoarchitectonics, National Institute for Materials Science | Inner Structure Analysis of Surface Absorbed Molecules, and Syntheses and Evaluation of Nanocarbon Films Based on Surface Reaction                 |
| KURANAGA Erina      | Professor, Graduate School of Life Sciences, Tohoku University  | Elucidation of the Working Principle of Collective Cell Migration of Epithelial Tissues  |
| KURAMOTO Hisanori   | Associate Professor, Institute for Research in Humanities, Kyoto University   | A Reconstruction of Chinese Buddhist History during the Six Dynasties, Sui and Tang Periods, Based on Comprehensively Collected Stone Inscriptions |
| KOSHINO Mikito      | Professor, Department of Physics, Osaka University  | Pioneering Theoretical Studies on and Development of Novel Properties of Multi-Layer Graphene  |
| SATAKE Akiko        | Professor, Faculty of Science, Kyushu University  | Unraveling Mechanisms of General Flowering Based on Genetic Information  |
| SHIMOJI Michinori   | Associate Professor, Faculty of Humanities, Kyushu University   | A Descriptive Grammar of the Irabu Dialect of Ryukyuan: A Typological Study on Its Accent and Syntactic Phenomena                                  |
| SHIMOBABA Tomoyoshi | Professor, Graduate School of Engineering, Chiba University   | 3D Information Processing Based on Principles of Computer Holography   |
| TAGO Atsushi        | Professor, School of Political Science and Economics, Waseda University   | Expansion of the Research Frontiers of the Scientific Study of World Politics from the Perspectives of Non-hegemonic States                        |
| TSUDA Yuichi        | Associate Professor, Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency                 | Pioneering Work and Its Verification on Precision Landing to an Asteroid and Interplanetary Flight Technology                                      |
| NISHIMASU Hiroshi   | Associate Professor, Graduate School of Science, The University of Tokyo  | Structure and Engineering of CRISPR-Cas9 Genome-editor Nucleases   |
| NOMURA Masahiro     | Associate Professor, Institute of Industrial Science, The University of Tokyo   | Heat Flux Control by Phononic Nanostructures and Application to Energy Harvesting  |
| FUJISAWA Shigeyoshi | Team Leader, RIKEN Center for Brain Science   | Studies on the Physiological Mechanisms of Temporal and Spatial Memory in the Hippocampus  |
| MAEKAWA Yasunori    | Professor, Graduate School of Science, Kyoto University   | Mathematical Justification of the Theory of Boundary Layer in Fluid Dynamics   |
| MASUDA Naoki        | Associate Professor, Department of Mathematics, State University of New York at Buffalo                               | Pioneering Research on Theory and Data-analysis Methods for Temporal Networks  |
| MATSUSHITA Tomonao  | Associate Professor, Faculty of Agriculture, Kyushu University  | Research on Multistep Regulation of Gene Expression by Plant Photoreceptor Phytochrome   |
| MATSUDA Ryotaro     | Professor, Graduate School of Engineering, Nagoya University / Institute for Advanced Research, Nagoya University     | Study on Molecular Recognition and Trapping Functions of Nanoporous Metal Complexes  |
| MANAGI Shunsuke     | Distinguished Professor, Director of Urban Institute, School of Engineering, Kyushu University                        | Research on the Development of the Inclusive Wealth Index  |
| YAMASHITA Makoto    | Professor, Graduate School of Engineering, Nagoya University  | Creation of Highly Reactive Boron Compounds and Elucidation of Their Characteristic Reactivity   |
| YORIMITSU Hideki    | Professor, Graduate School of Science, Kyoto University   | Development of Novel Synthetic Organic Reactions Based on the Breaking of Aromaticity  |