

**EXECUTIVE PROGRAMME OF COOPERATION
IN THE FIELD OF SCIENCE AND TECHNOLOGY
BETWEEN
THE GOVERNMENT OF ITALY AND THE GOVERNMENT OF JAPAN
FOR THE YEARS 2017-2019**

Within the framework of the Agreement between the Government of Italy and the Government of Japan on Cooperation in Science and Technology, which was signed in Tokyo, on 7th October, 1988, the delegations of Italy and Japan held the 13th Session of the Joint Committee on 7th December, 2016.

The Italian delegation was headed by Ambassador Domenico Giorgi, Ambassador of Italy to Japan. The Japanese delegation was headed by Ambassador Takeshi Nakane, Ambassador for Science and Technology Cooperation.

The members of the two delegations are listed in **Annex I**.

The Government of Italy and the Government of Japan share the view that cooperative activities between the two Countries could be promoted with the Executive Programme for the years 2017 - 2019.

The institutions in charge of the co-ordination of the present Executive Programme are:

For the Italian Side: Ministry of Foreign Affairs and International Cooperation, Directorate General for Cultural and Economic Promotion and Innovation,

For the Japanese Side: International Science Cooperation Division, Disarmament, Non-Proliferation and Science Department, Ministry of Foreign Affairs.

1. New Executive Programme: Joint Research Projects of Particular Relevance

In the period June 8th, 2016 - July 21st, 2016 a call for proposals was published by the Italian Side in order to collect proposals in the following priority areas:

- Agriculture and Food Science
- Basic Sciences (Physics, Mathematics, Chemistry)
- Biotechnologies and Health

- Energy and Environment
- Information and Communication Technologies, including Robotics and Automotive
- Nanosciences and Advanced Materials
- Space Sciences
- Technologies applied to Cultural Heritage.

Submitted proposals were evaluated by the Italian Side according to the following criteria and were confirmed by the Japanese Side:

- Scientific relevance
- Methodology and documentation
- Competence and skill of the research teams
- Added value of the bilateral cooperation
- Added value in addressing societal challenges
- Exploitation and dissemination of results
- Technology transfer
- Appropriateness of the budget requested with respect to methods and expected results.

Pursuant to the criteria referred above, the two Countries have selected 11 joint research projects of particular relevance. The list of the projects is given in **Annex II**. The Italian side will consider granting a unilateral financing contribution to significant bilateral research projects listed in **Annex II**.

2. GENERAL ADMINISTRATIVE AND FINANCIAL MATTERS

The activities and initiatives foreseen in this Programme are to be implemented in line with relevant rules, laws and regulations prevailing in each Country and will be carried out within the limits of the annual budget.

3. OTHERS

This Executive Programme for the period January 1st, 2017 - December 31st 2019 will continue until the start of the next Executive Programme, or the end of 2020, whichever is the earlier.

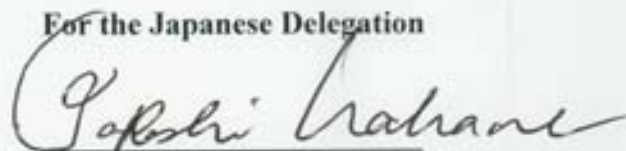
Any modification to the text of this Executive Programme has to be carried out through diplomatic channels.

The present document, including Annexes I and II, which are integral parts of it, has been drawn up and signed in Tokyo on 7th December 2016, in two originals in the English language.

For the Italian Delegation

A handwritten signature in black ink, consisting of a large, stylized initial 'D' followed by several loops and a long horizontal stroke.

For the Japanese Delegation

A handwritten signature in black ink, written in a cursive style that clearly reads 'Goshi Nakano'.

ANNEX I
MEMBERS OF THE DELEGATIONS

Head of the Italian delegation

Domenico Giorgi Ambassador of Italy to Japan

Members

Pierluigi Trombetta First Counsellor
Embassy of Italy in Tokyo

Alberto Mengoni Science and Technology Attache'
Embassy of Italy in Tokyo

Head of the Japanese delegation

Takeshi Nakane Ambassador for Science and Technology Cooperation
Ministry of Foreign Affairs

Members

Ai Gonda Principal Deputy Director
International Science Cooperation Division Disarmament,
Non-Proliferation and Science Department, Ministry of Foreign Affairs

Kinuka Shibamura Official
International Science Cooperation Division Disarmament,
Non-Proliferation and Science Department, Ministry of Foreign Affairs

ANNEX II
SIGNIFICANT RESEARCH PROJECTS

RESEARCH AREA	PROJECT TITLE	ITALIAN COORDINATOR	JAPANESE COORDINATOR
Agriculture and Food Science	Toxin-antitoxin systems in lactic acid bacteria of technological interest	Claudia FOLLI Università di Parma	Mitsuoki KAWANO Niigata University of Pharmacy and Applied Life Sciences (NUPALS)
Basic Sciences	Strangeness in the compact stars? High precision experimental and theoretical studies of the strange matter nuclear interactions at low-energies - StrangeMatter	Catalina Oana CURCEANU Istituto Nazionale di Fisica Nucleare	Masahiko IWASAKI RIKEN Nishina Center
Basic Sciences	Linear, non-linear and time resolved THz spectroscopy using the latest generation radiation sources	Stefano LUPI Università di Roma "La Sapienza"	Akinori IRIZAWA The Institute of Scientific and Industrial Research (ISIR), Osaka University
Biotechnologies and Health	Bone Marrow Models for Platelet Production	Alessandra BALDUINI Università di Pavia	Koji ETO Center for iPS Cell Research and Application, Kyoto University
Biotechnologies and Health	Identification of new biomarkers in rare and seronegative rheumatic diseases	Carlo Francesco SELMI Università di Milano	Minoru SATOH University of Occupational and Environmental Health
Energy and Environment	A supramolecular Approach to artificial Photosynthesis	Sebastiano CAMPAGNA Università degli studi di Messina	Ken SAKAI Kyushu University
ICT	MAterials, technoloGY and reliability for GaN vertical devices (MAGYGAN)	Enrico ZANONI Università degli Studi di Padova	Hiroshi AMANO Nagoya University, Center for Integrated Research of Future Electronics
Nanosciences and Advanced Materials	Solid State Actuators for Micro/Nanorobotics	Luca PELLEGRINO CNR	Teruo KANKI Institute of Scientific and Industrial Research (ISIR), Osaka University
Nanosciences and Advanced Materials	Guidelines for the setting-up of a protocol for characterizing Bioactive and Antibacterial biomaterials - GLOBAL	Silvia Maria SPRIANO Politecnico di Torino	Seiji YAMAGUCHI Chubu University
Space Sciences	The JEM-EUSO program and its pathfinders MINI-EUSO and EUSO-SPB for the study of the extreme Universe and the Earth observation in UV from Space	Mario Edoardo BERTAINA Università degli Studi di Torino	Toshikazu EBISUZAKI Computational Astrophysics Laboratory, RIKEN
Technologies applied to Cultural Heritage	Wireless Structural heAlth moniTORing for Cultural Heritage applications (SnATCH)	Andrea MASSA Università di Trento	Toshifumi MORIYAMA University of Nagasaki