

**EXECUTIVE PROGRAMME OF CO-OPERATION
IN THE FIELD OF SCIENCE AND TECHNOLOGY
BETWEEN
THE GOVERNMENT OF JAPAN
AND THE GOVERNMENT OF ITALY
FOR THE YEARS 2010-2011**

Within the framework of the Scientific and Technological Co-operation Agreement between Japan and Italy, which was signed in Tokyo, on 7th October, 1988, the delegations of Japan and Italy held the 10th Session of the Joint Committee on 29th March, 2010.

The Japanese delegation was led by Ambassador Yoshinori KATORI, Ambassador for Science and Technology Cooperation.

The Italian delegation was led by Ambassador Vincenzo PETRONE, Ambassador of the Italian Republic to Japan.

The members of the two delegations are given in **Annex 1**.

The Government of Japan and the Government of Italy share the view that cooperative activities between the two Countries should be promoted for the period 2010-2011 in the following manner.

1. MODALITIES OF COOPERATION

The joint Scientific and Technological activities should be performed in the following ways: (i) research projects, (ii) exchange of researchers, experts and university professors, (iii) organization of workshops, conferences, seminars, exhibitions and advanced training courses, (iv) establishment of joint research centres, and (v) participation to multilateral activities.

2. PRIORITY AREAS

- Basic Sciences (Physics, Chemistry, Mathematics, Biology)
- Life Sciences (Health, Biotechnology, Agriculture)
- Space
- Earth Science and Climate Change
- Energy
- Information and Communication Technology
- Robotics and Production Technologies
- Nanosciences, Advanced Materials
- Technologies Applied to Cultural Heritage.



3. NEW PROJECTS OF COLLABORATION

3.1 New proposals were received and were subsequently evaluated by both sides.



3.2 The projects listed in **Annex 2** are financed by the Government of Italy for the mobility of researchers.

3.3 In addition to the projects listed in Annex 2, the Italian side will consider granting a unilateral financing contribution to significant bilateral research projects listed in **Annex 4**.

4. GENERAL AND FINANCIAL PROVISIONS

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

The general and financial provisions for the Government of Italy are indicated in **Annex 3**.

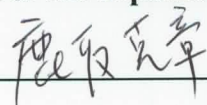
5. OTHER

This Executive Programme for the years 2010-2011 will continue until the signature of the next Executive Programme, or the end of the year 2012, whichever is the earlier.

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

The present document, including the Annexes 1, 2, 3, 4, which are an integral part of it, has been drawn up in Tokyo on 29th March, 2010, in two originals in English language.

For the Japanese Delegation



For the Italian Delegation



ANNEX 1

MEMBERS OF THE DELEGATIONS

Head of the Japanese delegation

Yoshinori KATORI

Ambassador for Science and Technology
Cooperation
Ministry of Foreign Affairs

Members

Toshiaki KOBAYASHI

Principal Deputy-Director
International Science Cooperation Division
Ministry of Foreign Affairs

Naoki KURIHARA

Deputy-Director
International Science Cooperation Division
Ministry of Foreign Affairs



Head of the Italian delegation

Vincenzo PETRONE

Ambassador of the Italian Republic to Japan

Members

Daniele BOSIO

Counsellor, Italian Embassy

Alberto MENGONI

Scientific Attaché, Italian Embassy



ANNEX II

PROJECTS FOR THE EXCHANGE OF RESEARCHERS

RESEARCH AREA	TITLE	ITALIAN PARTNER	JAPANESE PARTNER
Basic Sciences	Unravelling and control of matter at atomic level with novel radiation sources	Avaldi Lorenzo CNR Istituto di Metodologie Inorganiche e dei Plasmi	Okunishi Misaki Tohoku University - Institute of Multidisciplinary Research for Advanced Materials
Basic Sciences	Evaluation of photon statistics with photon number resolving detectors and correlated photon pair sources	Rajteri Mauro Istituto Nazionale di Ricerca Metrologica	Fukuda Daiji AIST - National Institute of Advanced Industrial Science and Technology
Basic Sciences	Evoluzione delle Galassie alla epoca della loro maggiore attività	Renzini Alvio Osservatorio Astronomico di Padova Istituto Nazionale di Astrofisica	Arimoto Nobuo National Astronomical Observatory
Energy	Distributed power generation from biomass and waste through integrated rotary klin Pyrolysis and fuel cell and battery micro plants	Fantozzi Francesco Dipartimento di Ingegneria, Università di Perugia	Capiglia Claudio RECRUIT R&D
Earth Sciences Climate Change	Reactive nitrogen oxides: air pollution accumulation and atmospheric self-cleansing capacity	Di Carlo Piero Università di L'Aquila CETEMPS - Dipartimento di Fisica	Kajii Yoshizumi Tokyo Metropolitan University
Information Communication Technology	VisualSound Sistema portatile per non vedenti via conversione sonora degli stimoli visuali	Marchisio Roberto Hicare Research	Micheletto Ruggero Yokohama City University
Life Sciences	Potenziali effetti benefici dell'eplerenone sull'endotelio umano	Caprio Massimiliano IRCCS San Raffaele	Mochizuki Seibu Musashino University Medical Center
Life Sciences	Guinea Pig cytomegalovirus as a model system for human cytomegalovirus vaccine development	Gallina Andrea Università di Milano	Inoue Naoki National Institute of Infectious Diseases, Tokyo

Life Sciences	Twilight zone between structural order and structural in the space of sequences	Giansanti Andrea Università La Sapienza, Roma	Shimizu Kana Institute of Advanced Industrial Science and Technology Tokyo
Life Sciences	Comparazione tra le tecniche di erogazione della dose nei trattamenti di radioterapia con ioni carbonio eseguiti con campi passivi e con scansione attiva	Orecchia Roberto Fondazione CNAO - Centro Nazionale di Adroterapia Oncologica	Tsujii Hirohiko NIRS -National Institute of Radiological Sciences
Nanosciences, Advanced Materials	Lab-on-chip system for early diagnostic in disease	Pirri Fabrizio Politecnico di Torino	Esashi Masayoshi Tohoku University
Nanosciences, Advanced Materials	Preparazione e caratterizzazione di nano-slurry a base di idrossiapatite con capacità di rilascio di farmaci per applicazioni biomediche	Rimondini Lia Università del Piemonte Orientale, Dipartimento di Scienze Mediche	Otsuka Makoto Musashino University, Research Institute of Pharmaceutical Sciences
Nanosciences, Advanced Materials	Operatività ad alta frequenza di dispositivi quantistici di Silicio a singolo drogante	Prati Enrico CNR - Istituto Nazionale per la Fisica della Materia, Genova	Shinada Takahiro Waseda Institute for Advanced Studies, Waseda University
Robotics and Production Technologies	Full-body kinesthetic teaching of a free-standing humanoid robot	Caldwell Darwin Fondazione Istituto Italiano di Tecnologia	Kanamiya Yoshikatsu Tokyo City University
Space	Tubi di calore con fluidi "self-rewetting"	Savino Raffaele Università di Napoli Federico II, Dipartimento di Ingegneria Aerospaziale	Abe Yoshiyuki Advanced Industrial Science and Technology Institute AIST - Tsukuba
Technologies Applied to Cultural Heritage	Monitoraggio/Controllo Intelligente sui Beni Culturali	Mallardo Vincenzo Università di Ferrara	Matsumoto Toshiro Nagoya University

ANNEX III

GENERAL ADMINISTRATIVE AND FINANCIAL PROVISIONS

The projects that could be financed within the present Programme are those listed in Annex II. In accordance with the relevant rules of Italy, the travel costs of the Italian researchers to Japan shall be covered by the Italian side, within the limits of the annual budget.

Journey of Italian Researchers Travelling to Japan

Italian researchers willing to travel to Japan for stays at the local Institutions, must present, two months in advance the departure date, a formal application to the Italian Ministry of Foreign Affairs, Direzione Generale per la Promozione e la Cooperazione Culturale, Ufficio V, Piazzale della Farnesina 1, 00135 Roma.

The Italian party will pay travelling expenses in economic class only.

The application is to be completed with:

- Name and address of the hosting Institution;
- Foreseen dates of departure and arrival;
- Title of the research project;
- Letter of invitation by the hosting Institution;

Declaration of Italian researcher with the engagement: to pay the due penalties in case of travel cancellation, to deliver travel documents (air tickets and boarding cards) within 15 days after returning and to write final report on the activities carried out within 15 days after return;

Declaration of the project's co-ordinator concerning the participation of the researcher to the project (only in case the researcher is not the project's responsible).

All the described rules are available at the internet address: www.esteri.it under Home > Politica Estera > Cultura > Attività > Coop. Scientifica-Tecnologica > Programmi Esecutivi > Scientifici Tecnologici in vigore



ANNEX IV

SIGNIFICANT RESEARCH PROJECTS

RESEARCH AREA	TITLE	ITALIAN PARTNER	JAPANESE PARTNER
Basic Sciences	Accurate Real time Tracking inside@lhc	Annovi Alberto Istituto Nazionale Fisica Nucleare	Yorita Kohei Waseda University
Basic Sciences	Role of Epigenome and noncoding RNA in neuromuscular functions	Orlando Valerio Fondazione Thelethon	Hayashizaki Yoshihide RIKEN OSC
Basic Sciences	PROME THEUS	Turchetti Giorgio Fondazione Alma Mater, Bologna	Bolton Paul JAEA Photo Medical Research Centre
Energy	Giunzioni meccaniche e sigillante di compositi SiC/SiC per applicazioni ad alte temperature	Ferraris Monica Politecnico Torino, Dipartimento Scienza dei Materiali e Ingegneria Chimica	Hinoki Tatsuya Institute of Advanced Energy, Kyoto University
Information Communication Technology	Tecnologie quantistiche: Informazione, comunicazione e calcolo	Pascasio Saverio Università di Bari Dipartimento di Fisica	Nakazato Hiromichi Waseda University, Physics Department
Life Sciences	Sfide globali per la salute. Biofarmaceutici prodotti in pianta	Benvenuto Eugenio ENEA	Fujiyama Katsuhito Osaka University, ICBiotech
Life Sciences	Joint Laboratory Japanese-Italian Tissue Engineering Laboratory	Di Nardo Paolo Università Tor Vergata, Roma	Okano Teruo Tokyo Women's Medical University
Nanosciences, Advanced Materials	Valutazione alla nanoscala delle proprietà chimiche, magnetiche e strutturali di nanostrutture avanzate (NEMESIS)	Salviati Giancarlo CNR (IMEM)	Sekiguchi Takashi National Institute of Materials Science – NIMS, Tsukuba
Nanosciences, Advanced Materials	Chimica e meccanica su scala nanometrica in materiali inorganici avanzati	Bettinelli Marco Università di Verona e INSTM Dipartimento Biotecnologie	Pezzotti Giuseppe RIN - Research Institute for Nanoscience, Kyoto Institute of Technology

Nanosciences, Advanced Materials	Laboratorio Congiunto Italia-Giappone Nanorarchitettura di Materiali per lo Sviluppo Sostenibile	Di Bartolomeo Elisabetta Università Tor Vergata, Roma	Bando Yoshio National Institute for Material Science
Robotics and Production Technologies	Laboratorio congiunto in Biorobotica, Scienze e Ingegneria	Dario Paolo Scuola Superiore Sant'Anna, Pisa	Hashimoto Shuji Waseda University
Space	The JEM-EUSO Project: observing cosmic rays, neutrinos, meteors and cloud coverage from the International Space Station	Galeotti Piero Dipartimento di Fisica Generale, Università di Torino	Ebisuzaki Toshikazu RIKEN Computational Astrophysics Laboratory, Advanced Science Institute
Space	Radio Astronomia dallo spazio	Giovannini Gabriele INAF Istituto di Radioastronomia	Murata Yasuhiro Japan Aerospace Exploration Agency
Technologies Applied to Cultural Heritage	Characterization of dynamic behaviour of historical masonry structures	Valluzzi Maria Rosa Università di Padova	Aoki Takayoshi Nagoya City University

