

TWELFTH EXECUTIVE PROGRAMME FOR SCIENTIFIC AND TECHNOLOGICAL COOPERATION BETWEEN THE ITALIAN REPUBLIC AND THE REPUBLIC OF KOREA FOR THE YEARS 2019 – 2021

On the basis of the Agreement on Scientific and Technological Cooperation between the Government of the Italian Republic and the Government of the Republic of Korea, signed in Rome on February, 3, 1984 the Italy - Korea Executive Program Research Commission was held in Seoul on December 20th 2018 to examine the present state and further development of scientific and technological cooperation between the two Countries and to define the Executive Programme for the years 2019 – 2021.

The Italian delegation was headed by His Excellency Marco della Seta, Ambassador of Italy in Seoul. The Korean delegation was headed by Ms Song Kyung Hee, Director General for International Cooperation Bureau at the Ministry of Science and ICT(MSIT).

New Executive Programme: Joint Research Projects of Particular Relevance

In the period July 23rd-September 11th 2018, a joint call for proposals was launched in the following priority areas:

- Biomedicine [1. Ageing (Neuroscience and Neuro-rehabilitation); 2. Pharmacology: novel drugs]
- Agri-food and Biotechnology
- ICT, including Robotics and Automotive
- Nanosciences and Advanced Materials
- Energy and Environment
- Marine Science
- Convergence Science (S&T applied to cultural heritage)
- Basic Sciences

The selection criteria that were adopted to identify eligible joint research projects were as follows:

- Scientific relevance of the research project
- Methodology and documentation
- Qualification of the applicants
- Added value of the bilateral cooperation
- Added value in addressing industrial/societal challenges
- Exploitation and dissemination of the results
- Budget adequacy of the research project.

On the basis of the above criteria, both Sides agreed to select 8 joint research projects, which were considered eligible for financial support and are listed in **Annex I**. Funding for these projects may be granted on a national basis upon evaluation of the financial requests to be submitted by the corresponding Principal Investigators, according to the guidelines defined by the relevant authorities in the two Countries.

Italy-Korea S&T Forum

In light of the successful outcome of the 6th edition of the Italy-Korea Science and Technology Forum that was hosted by Politecnico di Torino on November 12-13, 2018, as well as of the positive discussion which occurred in that occasion between Mr. Vincenzo De Luca, Director General for Country Promotion at the Ministry of Foreign Affairs and International Cooperation, and Ms. Song Kyung Hee, Director General of the International Cooperation Bureau at the Ministry of Science and ICT, both Sides jointly agree on the following: the Italy-Korea S&T Forum represents an important event fostering integration of basic, applied and industrial research, as well as technology transfer, and is going to be held from now on every two years, hosted alternatively in the Republic of Korea and in Italy. This event could be instrumental to carefully select in advance the most promising areas of bilateral cooperation, with significant impact on industrial high tech collaborations in both countries. The next edition of the Forum will be held during the year 2020, with further details, including date and venue, to be further agreed upon through diplomatic channels.

Final provisions

Both Sides agreed to hold the next session of the Joint Commission in Italy. Further details such as date and agenda, will be agreed upon through diplomatic channels.

The present Executive Programme will be in force between January 1st, 2019 and December 31st 2021, and will remain valid until the coming into force of the next Executive Programme, but no longer than one year after its expiration.

Any amendment to the text of this Executive Programme has to be discussed through diplomatic channels and authorised by the competent Ministries in both Countries.

All initiatives foreseen in this Executive Programme will be carried out within budget limits and according to the rules prevailing in each Country.

Annex I, containing the list of selected bilateral projects, is attached hereto and represents an integral part of the present document.

Signed in Seoul, on December 20th 2018, in two originals written in English language, each text being equally authoritative.

For the Italian Side

H. E. Marco della SETA

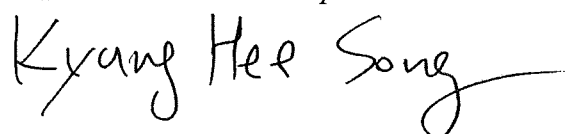
Ambassador of Italy in Seoul



For the Korean Side

Kyung Hee SONG

*Director General
MSIT International Cooperation Bureau*



Annex I

Significant research projects selected within the frame of the Executive Programme of Scientific and Technological Cooperation between the Italian Republic and the Korean Republic for the years 2019-2021

RESEARCH AREA	TITLE	ITALIAN COORDINATOR	KOREAN COORDINATOR
<i>Biomedicine</i>	<i>Governing neuronal signalling: Graphene-based interfaces to foster neuronal regeneration and restore network excitability in neurodegenerative disorders</i>	<i>BENFENATI Fabio (Fondazione Istituto Italiano di Tecnologia)</i>	<i>LEE Gwan-Hyoung (Yonsei University)</i>
<i>Agri-Food and Biotechnology</i>	<i>Molecular and physiological bases of leaf senescence as determinant of plant productivity and resilience to climate change and environmental stresses</i>	<i>LORETO Francesco (CNR-DiSBA)</i>	<i>LIM Pyung Ok (DGIST)</i>
<i>ICT</i>	<i>Memristor Spiking Neural Networks with Oscillatory Neurons and Event-Driven Synaptic Crossbars for Neuromorphic Vision Recognition</i>	<i>CORINTO Fernando (Politecnico di Torino)</i>	<i>MIN Kyeong-Sik (Kookmin University)</i>
<i>Nanosciences and Advanced Materials</i>	<i>Development of a cost-effective wearable metal nanowire-based chip sensor for optical monitoring of metabolites in sweat</i>	<i>MATTEINI Paolo (CNR-IFAC)</i>	<i>HWANG Byungil (Chung-Ang University)</i>
<i>Energy and Environment</i>	<i>Construction of Task-specific Molecular Channels for Analysis and Purification of Contaminated Water</i>	<i>DI SERIO Martino (Università degli Studi di Napoli Federico II)</i>	<i>JUNG Ok-Sang (Pusan National University)</i>
<i>Marine Sciences</i>	<i>Late Quaternary evolution of the ocean-ice sheet interactions: the record from the Ross Sea continental margin</i>	<i>COLIZZA Ester (Università di Trieste)</i>	<i>KHIM Boo-Keun (Pusan National University)</i>
<i>Convergence Science</i>	<i>Research of conservation environment and eco-friendly damage control of cultural heritage Korea and Italy</i>	<i>CANEVA Giulia (Università Roma Tre)</i>	<i>CHUNG Yong-Jae (Korea Natl Univ of Cultural Heritage)</i>
<i>Basic Sciences</i>	<i>Development of the Multigap resistive plate chamber using Ecological Gases</i>	<i>DE GRUTTOLA Daniele (Centro Studi e Ricerche Enrico Fermi)</i>	<i>KIM Do-Won (Gagyeong-Wonju Natl University)</i>