JOINT DECLARATION AFTER THE 13th ITALY – U.S. JOINT COMMISSION MEETING ON SCIENTIFIC AND TECHNOLOGICAL COOPERATION
Washington, December 7th, 2018

Pursuant to the Agreement on Scientific and Technological Cooperation between the Government of the Italian Republic and the Government of the United States of America, signed in Rome on April 1st 1988, as amended and extended on October 4th 1993, and the Joint Declaration of the 12th Joint Commission Meeting on Bilateral Cooperation, signed in Rome, on January 14th, 2016, the 13th Joint Commission Meeting was held in Washington.

DELEGATIONS

The Italian delegation was headed by Min. Plen. Maurizio Greganti, Deputy Chief of Mission, Embassy of Italy to the United States.

The U.S. delegation was headed by Dr. Jonathan Margolis, Acting Deputy Assistant Secretary for Science, Space, and Health in the Department of State's Bureau of Oceans and International Environmental and Scientific Affairs.

The composition of the two delegations is reported in Annex I.

AGENDA

The agenda of the joint review meeting was adopted as follows:

1. Review of the bilateral scientific activities carried out in the period 2016-2018
2. Areas of interest for both countries
3. Announcement of projects funded by the Italian call for proposals
4. Meeting of the next Joint Commission.

1. Review of the bilateral scientific activities carried out in the period 2016-2018

The two delegations reviewed the cooperative activities accomplished to date and expressed their satisfaction with the implementation of the projects established at the 12th Session of the Italian - U.S. Joint Commission on Scientific and Technological Cooperation, held in Rome, on January 14th, 2016.

2. Areas of interest for both countries

The delegations recognized the growing importance of science and technology with respect to the economic, social and cultural relations of the two Countries. Both sides put particular emphasis on the role of international cooperation for the further development of science and technology systems in the two Countries.

The two delegations discussed the scientific subjects of highest priority for cooperation in science and technology between Italy and the United States:

1. Health and life sciences:
   i) Precision medicine in oncology and related biotechnologies
   ii) Innovative technologies for health in aging (including robotics).
2. Physics and Astrophysics
3. Resilience to natural disasters
4. ICT limited to advanced materials and manufacturing, cyber security, quantum communications, and smart cities (in alphabetical order).

The participating institutions for each discussion and the implementation of the activities in each area include:

For Health and Life Sciences, the involved institutions are:

In Italy: Alleanza contro il Cancro, CREA, Human Technopole, INRCA, Istituto Auxologico Italiano, ISMETT, ISS, Italian Ministry of Health, La Sapienza University of Rome, RiMED, UNIBO, UNIFE, University of Naples "Federico II", UNITO.

In the U.S.: U.S. Department of Health and Human Services (including the U.S. Food and Drug Administration and the U.S. National Institutes of Health), Johns Hopkins Bloomberg School of Public Health, North Carolina State University, Oregon Health and Science University.

For Physics and Astrophysics, the involved institutions are:

In Italy: ASI, ENEA, INAF, INFN.

In the U.S.: DOE, NASA, Naval Research Institute, New York University, NSF, Princeton University, South West Research Institute, STScI, UCLA, UC Santa Cruz.

For Resilience to natural disasters, the involved institutions are:

In Italy: ASI, CNR, ENEA, EUCENTRE, INFN, INGV, ISPRA, Italian Civil Protection, SOTACARBO, OGS.

In the U.S.: DOE, EPA, FEMA, Library of Congress, NASA, NG A, National Research Council, NOAA, NPS, NSF, USGS.

For ICT, the involved institutions are:

In Italy: Bocconi University, CNR, CNIT, ENEA, IIT, INFN, INRIM, UNIBO, University of Naples "Federico II", University of Rome Tor Vergata.

In the U.S.: AFOSR, Army Research Laboratory, Johns Hopkins University, NIST, NSF, Pennsylvania State University, Stanford University, University of California at Berkeley, University of Maryland.

In all cases, the Research Centers and the Universities are responsible for funding their scientific projects.

3. Announcement of projects funded by the Italian call for proposals

The Italian delegation announced that 18 (eighteen) projects have been approved for funding. The selected projects were identified through the Ministry for Foreign Affairs and International Cooperation's recent call for proposals. (The projects are listed in Annex II.)

Furthermore, the Italian Ministry selected 5 (five) more projects, listed in Annex III, as Reserve List. Their designation as reserve informs that the projects are of the highest quality, and that agencies or research institutions are encouraged to mobilize potential resources from different sources in order to implement the projects.

The delegations believe that future calls might benefit from holding the Joint Commission Meeting prior to making an announcement soliciting projects in order to focus the proposed project topics on priorities identified by the Joint Commission.

4. Next Meeting of the Joint Commission

The two delegations suggested that the next session of the Joint U.S.-Italian Commission on scientific and technological cooperation should take place in Rome, Italy, in 2021.

Prior to the next meeting, the two Countries may explore additional means to exchange information on national scientific priorities and areas of potential cooperation, and exchange views in areas that might involve the broader scientific communities.

Any addition to the present document will be completed through diplomatic channels.

Signed in Washington on December 7, 2018, in duplicate, in the English language.

For the Republic of Italy

Min. Plen. Maurizio Greganti
Deputy Chief of Mission
Embassy of Italy to the United States

For the United States of America

Dr. Jonathan Margolis
Acting Deputy Assistant Secretary for
Science, Space, and Health in the
Department of State's Bureau of Oceans
and International Environmental and
Scientific Affairs
U.S. Department of State

ANNEX I

DELEGATIONS

Italian Delegation

Embassy of Italy: Maurizio Greganti, Lamberto Moruzzi, Emanuele Manzitti, Ludovica Laviani, Ugo Della Croce, Stefano Lami, Marco Gilli (designated Science Attaché)

Health and Life Sciences:

Italian Ministry of Health: Giovanni Leonardi (Co-Chair)

Innovative Technologies for Health in Aging (including Robotics)

CREA: Fabio Virgili

Istituto Auxologico Italiano: Marco Stramba-Badiale

University of Bologna: Lorenzo Chiari (Theme Co-Chair)

University of Ferrara: Giuseppe Mincolelli

Precision Medicine in Oncology and related Biotechnologies

Alliance against Cancer: Ruggero De Maria (Theme Co-Chair), Giuseppe Pelicci

Human Technopole: Marco Simoni

ISS: Laura Bracci, Lucia Gabriele

Ri.MED Foundation: Alessandro Padova

"Sapienza" University of Rome: Elisabetta Ferretti

University of Naples "Federico II": Gerolama Condorelli

University of Turin: Federico Bussolino

University of Udine: Giuseppe Damante

Physics and Astrophysics:

INAF: Fabrizio Capaccioni, Adriano Fontana, Giuseppina Micela, Giovanni Pareschi, Corrado Perna, Luca Valenziano, Filippo M. Zerbi

INFN: Marco Battaglieri, Andrea Celentano, Marco Contalbrigo, Raffaella De Vita, Speranza Falciano, Donatella Lucchesi, Antonio Masiero (co-Chair), Stefano Miscetti, Marco Radici, Patrizia Rossi, Mauro Taiuti, Antonio Zoccoli

Resilience to Natural Disasters:

CNR: Massimiliano Alvioli, Paola Reichenbach

Corpo Nazionale Vigili del Fuoco: Emanuele Gissi

ENEA: Gerardo De Canio, Vittorio Rosato, Anna Sytchkova

EUCENTRE: Fabio Germagnoli, Riccardo Pietrabissa

Gran Sasso Science Institute: Giulia Urso

INAF: Mauro Messerotti

INFN: Vania Virgili

INGV: Fabrizia Buongiorno (Co-Chair), Rita Di Giovambattista, Carlo Doglioni, Leonardo Sagnotti

ISPRA: Andrea Fiorentino, Daniele Spizzichino, Andrea Taramelli, Emiliana Valentini

Italian Civil Protection: Chiara Cardaci

OGS: Florence Colleoni, Laura De Santis, Francesca Malfatti (remotely connected)

University of Perugia: Fernando Nardi

SOTACARBO: Alessandro Lanza, Enrico Maggio, Alberto Pettinau, Gianni Serra.

ICT:

Bocconi University: Andrea Sommariva

CIRA: Stefania Cantoni

CNR: Luigi Ambrosio, Valentina Benfenati, Paolo De Natale, Salvatore Iannace, Luca Maiolo, Roberto Marcialis, Emanuela Saracino, Roberto Zamboni

ENEA: Mauro Annunziato

INFN: Donatella Lucchesi, Antonio Zoccoli

INRIM: Filippo Levi

Italian Cluster Advanced Manufaturing: Tullio Tollio (remotely connected)

Italian Institute of Technology (IIT): Simone Collobiano

Materias: Caterina Meglio

Politecnico of Turin: Mariangela Lombardi

Scuola Superiore Sant'Anna: Massimo Bergamasco

University of Naples Federico II: Domenico Accardo, Paolo Netti, Luigi Nicolais

University of Padua: Fabrizio Dughiero

University of Rome Tor Vergata: Thomas Brown, Loredana Santo

U.S. Delegation

Department of State: Jonathan Margolis, Constance Arvis, Jared Banks, Riju Srimal, Fernando Echavarria, Daniel Moore, Brian Nordmann, Scott Smith, Cole Donovan, Gavin Piercy

Health and Life Sciences:

Health and Human Services: Colin McIff (Co-Chair)

National Institutes of Health: George Herrfurth

Innovative Technologies for Health in Aging (including Robotics)

FDA: Leonardo Angelone

Johns Hopkins Bloomberg School of Public Health: Michelle Carlson, Jennifer Schrack

National Institute on Aging: Eleanor Simonsick (Theme Co-Chair)

North Carolina State University: Mary Ann Lila, Giuseppe Valacchi

Oregon Health and Science University: Martina Mancini

University of Mississippi: Michael Griswold (remotely connected)

Precision Medicine in Oncology and related Biotechnologies

George Mason University: Lance Liotta

Georgetown University: Giuseppe Giaccone

National Cancer Institute: Alice Chen, Richard Little, Margaret Mooney (Theme Co-Chair), Nita Seibel

Physics and Astrophysics:

DOE/HEP: Tof Carim, Glen Crawford, Abid Patwa, Claudette Rosado-Reyes, Jim Siegrist (co-Chair), Kathy Turner

DOE/Office of Science: Corey Cohn, Kaitlyn Schroeder-Spain

DOE/Fermilab: Brendan Casey, Nigel Lockyer, Martina Martinello, Hema Ramamoorthi

DOE/JLab: Rolf Ent, Stuart Henderson, Cynthia Keppel, Robert McKeown

DOE/Brookhaven Lab: David Asner, Berndt Mueller

ESA/STScI: Antonella Nota

NASA/GSFC: Vladimir Airapetian, Mark Clampin, Shawn D. Domagal-Goldman, Avi M. Mandell, Robert Petre

NASA/JPL: Todd Gaier, Charles R. Lawrence

NASA/MSFC: Martin Weisskopf

Naval Research Lab: Paul Ray

New York University: Federica Bianco

NSF: Jean Cottam Allen, Pedro Marronetti, Joe Miller, Allena Opper, Randy Ruchti, Jim Whitmore

Princeton University: Cristian Galbiati

UC Santa Cruz: David Williams

Resilience to Natural Disasters:

DOE: Charles Taylor

FEMA: Jess Bratton, Amanda Smith, Chris Vaughan

Florida International University: Rita Teutonico

George Mason University: Jong-On Hahm

Library of Congress: Fenella France

NASA: Gerald Bawden

NASA/JPL: Cinzia Zuffada, Frank Webb

NGA: Barbara Berrie

National Research Council: Elizabeth Eide

NOAA: Fredrick Branski, William Murtagh

NPS: Marcy Rockman

NSF: Joe Miller

NSF/NHERI: Julio Ramirez (Purdue University)

USEPA: Katherine Buckley

USGS: Michael Blanpied, Thomas Cecere, Charles Mandeville, Alice Pennaz, Ingrid Verstraeten (Co-Chair)

World Bank: Barbara Minguez-Garcia, Jay Newman

ICT:

AFOSR: Sofi Bin-Salamon, Misoon Mah

Army Research Laboratory: Shashi Karna

DOE: Claudette Rosado-Reyes

General Electric: Paul Hughes

General Motors: Harry Lightsey

Johns Hopkins University: Sharon Gerecht, Larry Nagahara

National Academy of Sciences: Franklin A. Carrero-Martinez

National Cancer Institute: Michael Espey

NIST: Katya Delak, Michael Garris, Christopher Greer, Amy Mahn, Adam Sedgewick, Carl Williams

NSF: Khershed Cooper, Chenzhong Li

Pennsylvania State University: Isabella Cattadori, Sahin Ozdemir

Stanford University: Claudio Pavone

Texas A&M University: Ozden Ochoa, Zhijian Pei

University of Maryland: Wolfgang Losert, Kate O'Neill

ANNEX II

SELECTED SIGNIFICANT BILATERAL PROJECTS

#	PI ITA	Area	INSTIT. ITA	Title	PI USA	INSTIT. USA
6164	CARRI'	HLS	Fondazione SANTA LUCIA, IRCCS	Whole transcriptome analysis in models of extended healthy life-span after spermidine treatment	Casero	The Johns Hopkins School of Medicine
6198	MEDICO	HLS	Fondazione del Piemonte per l'Oncologia, FPO-IRCCS	Uncovering therapeutic vulnerabilities of aggressive transcriptional subtypes of colorectal cancer	Draetta	University of Texas MD
6071	FEDERICO	HLS	Istituto Superiore di Sanità_MinSalute	Anti-cancer immunotherapy through an innovative vaccine platform based on endogenously engineered exosomes	Sukumar	Johns Hopkins University
6263	BLANDINO	HLS	IFO-Istituti Fisioterapici Ospitalieri, IRCCS	Validation of the Next Generation Sequencing data on TP53 alterations from liquid biopsy of HNSCC patients by the Safe-Sequencing System method	Agrawal	The University of Chicago Medicine
6251	FELLI	HLS	Istituto Superiore di Sanità - Dipartimento di Oncologia e Medicina Molecolare_ MinSalute	Drug resistance in metastatic melanoma: development of nanoparticles for therapeutic microRNA tumor delivery	Calin	The University of Texas, MD Anderson Cancer Center

6372	PELICCI	HLS	Istituto Europeo di Oncologia (Alleanza Contro il Cancro) IRCCS	Set-up of an NGS-based approach for the simultaneuos diagnosis of cancer somatic and hereditary variants	Draetta	MD Anderson Cancer Center
6312	BALDASSARE	HLS	Centro di Riferimento Oncologico - Aviano -IRCCS	Understanding Ovarian Cancer dissemination and chemoresistance: Opportunities to improve patients' survival	Draetta	The University of Texas MD Anderson Cancer Center
6148	ASTI	HLS	AUSL-IRCCS di Reggio Emilia	In vivo imaging of over-expressed micro-RNAs for lung cancer diagnosis and prognosis	Pisaneschi	University of Texas - MD Anderson Cancer Center
6376	DODARO	HLS	ENEA	Industrialization of a 99mTc production line for the supply of innovative generators to the local market	Centofanti	Perma-Fix Inc., Florida
6121	DEL FELICE	HLS	UNIPD	Prevention of falls: a synergic soft exoskeleton with integrated muscle and brain bio signals to minimize gait instability in the elderly	Bonato	Harvard Medical School, Boston
6234	CONVERTINO	HLS	CNR	Scalable nano-plasmonic platform for differentiation and drug response monitoring of organ-tropic metastatic cancer cells	Barman	Johns Hopkins University
6291	CURRI	ICT	CNR	Multi-stacked intercalating hybrid PbS quantum dot film/graphene architectures for enhanced photodetectors	Vazquez Mena	University of California, San Diego

6359	LANZI	ICT	UNIMI	Software Execution Environment Protection (SEEP)	Lu	Indiana University
6183	GISSI	ND	Min. Interno	WUIFI-21: High fidelity computational fluid dynamics modeling of forest fires for Wildland-Urban Interface communities	McDermott	(NIST), Engineering Laboratory, Fire research division
6366	CRITTO	ND	Università Ca' Foscari Venezia	Building ND	Lambert	University of Virginia
6034	BATTAGLIERI	PA	INFN	A triggerless DAQ for the Electron Ion Collider (EIC)	Hasell	Massachusets Institute of Technology (M.I.T.)
6233	CAMPANA	PA	INAF	Searching for the electromagnetic counterparts of Gravitational Waves triggers	Cenko	National Aeronautics and Space Administration
6279	CUTINI	PA	INFN	Fermi Gamma-ray Space Telescope follow-up of gravitational wave events	Omodei	Hansen Experimental PA

HLS: Health and life sciences (precision medicine in oncology and related biotechnologies; innovative technologies for health in aging, including robotics).
ICT: ICT (limited to advanced materials and manufacturing, smart cities, cyber security and quantum communications)
ND: Resilience to natural disasters
PA: Physics and Astrophysics

ANNEX III

RESERVE LIST

6157	TOSI	HLS	UNIMORE	Nanomedicine for BBB-crossing in CNS oncologic pathologies	Prud'homme	Princeton University
6314	FRESI	ICT	CNIT, Parma	ENabling quantum crYptoGraphy over standard optical coMmunicAtion systems (ENYGMA)	Mondin	California State University, Los Angeles
6129	SARGOLINI	ND	Università Camerino	RE-LAND, REsilient LANDscapes	Stewart	University of California Los Angeles
6320	FALCONIERI	PA	ENEA	Low-wavenumber femtosecond coherent Raman spectrometer	Kulatilaka	TAMU-Texas A&M University
6181	TOMASI	PA	UNIMI	Next-generation simulation of CMB experiments	Borrill	L.Berkeley Natl Lab (University of California)

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