



Ministero degli Affari Esteri

DIREZIONE GENERALE PER LA PROMOZIONE E
LA COOPERAZIONE CULTURALE

JOINT DECLARATION AFTER THE 8TH BIENNIAL REVIEW MEETING ON SCIENTIFIC AND TECHNOLOGICAL COOPERATION BETWEEN THE REPUBLIC OF ITALY AND THE UNITED STATES OF AMERICA

Rome, September 28-29, 2005

Pursuant to the Agreement on Scientific and Technological Cooperation between the Italian Republic and the Government of the United States of America, signed in Rome on October 6th 1978, and the Joint Declaration after the 7th Biennial Review Meeting on Bilateral Cooperation, signed in Washington, D.C. on June 18, 2003, the 8th review meeting was held in Rome on September 28-29, 2005.

DELEGATIONS

The Italian delegation was headed by Ms. Anna Blefari-Melazzi
Director General for Cultural Promotion and Cooperation
Ministry of Foreign Affairs.

The U.S. delegation was headed by Mr. Anthony F. Rock
Acting Assistant Secretary of State
Bureau of Oceans, International Environmental and Scientific Affairs
Department of State.

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 2003-2005.
2. Agreements and Memoranda of Understanding signed in selected areas.
3. Areas of relevant interest for both countries.
4. Agencies and institutions involved in scientific and technological cooperation: organization, funding policy, perspectives.
5. Instruments to pursue the objectives.
6. Signature of Memorandum of Understanding between Ministry of Environment and National Oceanic and Atmospheric Administration
7. Meeting of the next Joint Commission.

1. Review

The two delegations reviewed the cooperative activities accomplished to date and expressed their satisfaction with the implementation of the projects established at the 7th Session of the U.S. - Italian Joint Commission on Scientific and Technological Cooperation, held in Washington, D.C. on June 17-18, 2003.

2. Agreements and Memoranda of Understanding

A representative list of Cooperative Arrangements concluded over the past two years may be found in Annex II and Annex III.

3. Areas of interest for both countries

The two delegations reviewed progress made in a wide range of scientific and technological areas in the last two years as reported in ANNEX IV, ANNEX V, and ANNEX VI.

Scientists implemented many other bilateral scientific studies and a very large number of cooperative projects were found to be active between the two countries.

Such studies include the traditional research fields where the participation of both sides is fruitful and provides an opportunity for cross-fertilization. These collaborations contributed to invaluable results in many different fields: joint efforts are advancing a deeper understanding in nearly all possible sectors of science and technology.

The two delegations discussed the scientific sectors of new scientific bilateral projects between the two countries in the area of science and technology and agreed on, among other things, their scope, contents, and areas of intervention as well as details with regard to the modalities for their implementation.

The scientific subjects of the highest priority for Italy and the United States are:

1. Biotechnology
2. Energy
3. Environment
4. Information and Communication Technologies
5. Health
6. Marine Protected Areas
7. Nanotechnology
8. Physics and Other Basic Sciences
9. Space Technologies

Many existing scientific bilateral projects fall within these subject areas and involve qualified teams from both countries that produce high quality outputs.

4. Agencies and institutions involved in scientific and technological cooperation

The Memoranda of Understanding and Letters of Intent signed between Italian and U.S. institutions on selected topics are reported in ANNEX II.

Funding of scientific projects discussed during this meeting and the resulting scientific cooperation will be undertaken without the exchange of funds. The ability of each Party to undertake the scientific projects listed in the present document is subject to the availability of funds and resources in each country.

Nevertheless, the Italian and United States agencies and institutions primarily involved in funding scientific research projects within their respective competencies will be informed of the present document, in order to take in consideration the common interest of the two countries in the implementation of the listed projects.

For Biotechnology, the involved institutions are Ministero della Salute, ISS, CNR, MIUR, INGM, NSF, USDA, and DHHS.

For Energy, the involved institutions are CNR, MIUR, ENEA, Ministry for the Environment and Territory, DOE, USDA, and EPA.

For Environment, the involved institutions are CNR, MIUR, Ministry for the Environment and Territory, INGV, ENEA, EPA, USDA and NSF.

For Information and Communication Technologies, the involved institutions are MIUR, MIT, ENEA, CNR, INFN, NSF, and DOE.

For Marine Protected Areas the involved institutions are Ministry for the Environment and Territory, CNR, MIUR, NSF, and NOAA.

For Health, the involved institutions are Ministero della Salute, ISS, MIUR, CNR, INMI and DHHS.

For Nanotechnology, the involved institutions are CNR, MIUR, INFN, EPA, and NSF.

For Physics and Other Basic Sciences, the involved institutions are CNR, MIUR, INFN, INAF, NSF and DHHS.

For Space Technologies, the involved institutions are ASI, INAF, MIUR, INFN, and NASA.

In all cases the universities are responsible for funding their scientific projects.

5. Instruments to pursue the objectives

The exchange of scientists and students as appropriate may take place using any available funding resources, including funds within the budgets of U.S. scientific and technical agencies, the European Commission funds designated for mobility of scientists from the United States, and funds designated by the Italian Ministry for Foreign Affairs for the mobility of researchers.

Italy and the United States intend to encourage the exchange of scientists and to provide assistance to facilitate all the necessary visa procedures. In all the priority areas listed above, Italy and the United States intend also to facilitate technical agreements between universities, research institutions, and agencies.

Doctorate and Post-Doctorate theses done in collaboration between Italian and U.S. universities and laboratories as well as exchange of undergraduate students for

research training, will continue to be encouraged as one of the primary tools to share research.

All initiatives discussed in this Programme should be carried out to the best of the Parties' abilities within the limits of the budgets and according to the rules of each country. The Italian Ministry for Foreign Affairs, within the limits of its yearly budget, intends to examine the possibility of contributing to research expenses of the projects in ANNEX IV, ANNEX V and ANNEX VI.

6. Signature of MoU between Ministry of Environment and NOAA

On September 29, 2005, at the conclusion of the 8th biennial annual meeting, Dr. Aldo Cosentino, Director General of Italian Ministry of Environment and Daniel Basta, Director of the National Marine Sanctuary Program in NOAA signed a cooperative agreement to collaborate on management and research associated with marine protected areas and ecosystem management in both Countries.

7. Next Meeting of the Joint Commission

The two delegations agreed that the next session of the Joint U.S.-Italian Commission on scientific and technological cooperation will take place in Washington, D.C. in 2007. The two sides agreed to convene the next full bilateral review no later than the end of 2007, at a date and location in the U.S. to be decided on.

The parties agree to explore prior to the next biennial meeting new means to exchange information on national scientific priorities and areas of potential cooperation.

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

Signed in Rome on September 29, 2005, in duplicate, in the English language.

For

the Republic of Italy

For

the United States of America

Ms. Anna Blefari-Melazzi

Director General

for Cultural Promotion and Cooperation

Ministry of Foreign Affairs.

Mr. Anthony F. Rock

Acting Assistant Secretary of State

Bureau of Oceans, International

Environmental and Scientific Affairs

Department of State.

ANNEX I

Italian Delegation

MINISTRY OF FOREIGN AFFAIRS

Directorate General for Cultural Promotion and Cooperation

1. Ms. Anna Blefari-Melazzi, Head of Delegation,
Director General for Cultural Promotion and Cooperation
2. Mr. Lucio Alberto Savoia, Deputy Director General for Cultural Promotion and
Cooperation
3. Mr. Francesco Saverio De Luigi, Head of Division Science and Technology
4. Mr. Michele Mistò, Division Science and Technology
5. Ms. Lucilla Alagna, Scientific Expert, Division Science and Technology

Directorate General for America

6. Mr. Claudio Bisogniero, Director General for America
7. Mr. Roberto Spinelli, Deputy Director General for America
8. Mr. Adriano Tedde, Division for Northern America

Directorate General for Economic Co-operation

9. Mr. Jacopo Martino, Division Energy and Space
10. Ms. Ester Caiani, Division Energy and Space

Embassy of Italy in the USA

11. Mr. Armando Varricchio, Head of the Economic, Commercial and Scientific
Affairs Office, Embassy of Italy, Washington, D.C.

MINISTRY OF EDUCATION, UNIVERSITY AND RESEARCH

12. Mr. Alexander Tenenbaum, Director General, Research Internationalisation
Department

MINISTRY OF HEALTH

13. Dr. Maria Paola Di Martino, Director General, International Relations

MINISTRY OF ENVIRONMENT

14. Dr. Corrado Clini, Director General, Environmental Research and Development
15. Mr. Aldo Cosentino, Director General, Nature Protection Directorate

CNBB - PRESIDENCY OF THE COUNCIL OF MINISTERS

16. Prof. Leonardo Santi, President, National Committee for Biosafety and Biotechnology of the Presidency of the Council of Ministers

ASI

17. Prof. Sergio Vetrella, President, Italian Space Agency

CNR

18. Prof. Fabio Pistella, President, Italian National Research Council
19. Mr. Giuseppe Roffi, EU Liaison Office, Italian National Research Council

ENEA

20. Prof. Luigi Paganetto, Commissioner, Agency for New Technologies, Energy and the Environment
21. Raffaele Vellone, Agency for New Technologies, Energy and the Environment

INAF

22. Mr. Giampaolo Vettolani, Scientific Director, National Institute for Astrophysics

INFN

23. Mr. Giovanni Ricco, Vice-President, Italian National Institute for Nuclear Physics
24. Prof. Giorgio Bellettini, Italian National Institute for Nuclear Physics

INGM

25. Mr. Sergio Abrignani, Scientific Director, Italian National Institute of Molecular Genetics Foundation

INGV

26. Mr. Antonio Navarra, Italian National Institute of Geophysics and Volcanology

INMI

27. Dr. Giuseppe Ippolito, Scientific Director, Italian National Institute of Infectious Diseases, "Lazzaro Spallanzani"

ISS

28. Dr. Ranieri Guerra, Director, Office of External Affairs, Italian National Institute of Health

U.S. Delegation

1. Mr. Anthony F. Rock - Head of Delegation
Acting Assistant Secretary of State
Bureau of Oceans, International Environmental and Scientific Affairs
Department of State
2. Dr. Virginia Cox
Office of Science and Technology Cooperation and Oceans Affairs,
Department of State
3. Ms. Anita Eisenstadt
Office of Science and Technology Cooperation, Department of State
4. Dr. Chris Rothfuss
Office of Space and Advanced Technologies, Department of State
5. Ms. Jeanne Hudson
Office of International Science and Engineering, National Science Foundation
6. Mr. Daniel Basta
Office of National Marine Sanctuaries
National Oceanic and Atmospheric Administration, Department of Commerce
7. Mr. William Douros
Monterey Bay National Marine Sanctuary
National Oceanic and Atmospheric Administration, Department of Commerce
8. Ms. Elizabeth Moore
Conservation Policy and Planning Branch
International Programs,
National Marine Sanctuary Program
National Oceanic and Atmospheric Administration, Department of Commerce
9. Ms. Anna Phillips
Office of International Affairs, Environmental Protection Agency
10. Dr. Richard Greene
Office of International Research Programs
Agricultural Research Service, Department of Agriculture
11. Dr. Michael Hollingdale
National Institutes of Allergy and Infectious Diseases (NIH/NIAID)
Department of Health and Human Services/National Institutes of

12. Dr. Elizabeth Ann Davis
Fogarty International Center
Division of International Relations
Department of Health and Human Service/National Institutes of Health

13. Mr. David Sorrentino
Office of Global Affairs
National Institutes of Allergy and Infectious Diseases
Department of Health and Human Service/National Institutes of Health

14. Dr. J. Donald Miller
National Aeronautics and Space Administration (NASA) European
Representative
U.S. Embassy Paris, France

15. Ms. Jill F. Byrnes
Environment , Science and Technology Counsellor
U.S. Embassy, Rome

16. Dr. Federica Signoretti
Science Specialist
U.S. Embassy, Rome

17. Scott F. Kilner
Economic Minister Counselor
U.S. Embassy, Rome

ANNEX II

Selected Cooperative Arrangements concluded since the last Bilateral Review Meeting

During the recent visits of Italian Minister Letizia Moratti, Memoranda of Understanding and Agreements were signed stating the Parties' mutual interest in scientific collaboration between:

- California Institute of Technology (CALTECH) and National Institute for Astrophysics (INAF): Collaboration on HEMT/MMIC arrays, and on Pulsar Research.
- Henry Samueli School of Engineering and Applied Sciences, University of California, Los Angeles and Ministry of Education, University and Research: Promotion of advanced collaborative work in wireless technologies and application between UCLA and various Italian centers of excellence such as the University of Bologna, University of Trento, Istituto Mario Boella of Turin Polytechnic.
- Ministry of Education, University and Research and Research Group of Prof. Paul Alvisatos (Chemistry Department, University of California, Berkeley) together with Materials Science Division and Molecular Foundry (Lawrence Berkeley Laboratory).
- Division of Engineering and Applied Sciences of Harvard University and Ministry of Education, University and Research, to collaborate, following the proposal of a Joint Committee, in the field of nanotechnologies with Italian National Nanotechnology Laboratory (University of Lecce) and National Enterprise for Science and Technology (Pisa, Scuola Normale Superiore).
- Harvard Medical School and Giovanni Armenise-Harvard Foundation and Harvard Medical International Inc. and Ministry of Education, University and Research to collaborate, following the proposal of a Joint Committee, in the areas of genomics, proteomics, neurobiology, systems biology and combinatorial chemistry.
- MIT McGovern Institute of Brain Research and "Rita Levi-Montalcini" European Brain Research Institute: collaboration in the areas as reported in ANNEX IV.
- MIT Computer Science and Artificial Intelligence Laboratory and Genova and Pavia Universities: collaboration in the areas as reported in ANNEX IV.

In the field of energy and related environmental sciences an agreement was signed between the Italian Ministry of Productive Activities, together with the Italian Ministry of Environment and Territory, and the Department of Energy of the United States of America, stating their mutual interest in scientific collaboration.

The cooperative activities include scientific research in the areas of renewable energy, waste management, environmental safety and related themes, as reported in ANNEX IV.

ANNEX III

Selected Cooperative Arrangements concluded since the last Bilateral Review Meeting : Public Institutions and Agencies

With regard to the subject of Space Cooperation, we refer to the successful bilateral review meetings held on January 12 and March 11, 2005 between the National Aeronautics and Space Administration (NASA) and the Italian Space Agency (ASI). These meetings have been useful for both governments in identifying potential cooperative activities related to the missions of their respective space agencies. These proceedings are documented in the June 2005 NASA-ASI Joint Steering Committee Final Report.

We also refer to the successful NASA-ASI science missions.

- The European Space Agency (ESA) successfully launched the ESA Mars Express Mission on June 2, 2003, which included the joint NASA-Italian Space Agency (ASI) Mars Advanced Radar for Subsurface and Ionospheric Sounding (MARSIS) and Planetary Fourier Spectrometer (PFS) instruments. The MARSIS instrument was successfully deployed in May 2005 and is now returning data, with major scientific announcements expected soon.
- The joint NASA/ESA/ASI Cassini Mission to Saturn successfully entered orbit around Saturn on July 1, 2004, after a 7 year journey to reach the ringed planet. Then on January 14, 2005, the European-built Huygens probe successfully landed on Titan, Saturn's largest moon.
- NASA successfully launched the NASA Swift Gamma-Ray Burst Explorer Mission, which included substantial ASI contributions to the X-ray Telescope (XRT), on November 20, 2004.
- NASA successfully launched the NASA Mars Reconnaissance Orbiter (MRO) mission, which included the ASI-provided Shallow Radar (SHARAD) instrument, on August 12, 2005.

With regard to the subject of Geospatial Cooperation, At the last Bilateral Review meeting a Memorandum of Understanding promoting cooperation on this topic was signed. Under this MOU, a meeting took place in Florence, Italy on September 21-23, 2004 both to celebrate the 100th anniversary of the Istituto Agronomico per l'Oltremare (IAO) and to discuss Land Cover Mapping and Change Assessment: Applications, policies and networks in support of sustainable development. The meeting was sponsored by IAO, USAID, FAO, UNEP and Ministero degli Affari Esteri Direzione Generale per la Cooperazione allo Sviluppo.

As to the co-operation in Nuclear, Sub-Nuclear and Astroparticle Physics, INFN on the Italian side and DOE and NSF on the US side co-operate in a number of large scale multilateral experiments performed in US and in Italian Laboratories as well as in the outer space and elsewhere in the world.

- INFN participation in experiments performed at US Laboratories concerns Experiment CDF at the Fermi National Accelerator Laboratory; Experiment BaBar at the Stanford Linear Accelerator Centre; Experiments E896, on multiquark particle production in relativistic heavy ion collisions, and LEGS at the Brookhaven National Laboratory; Experiments CLAS and ELETTRIO at the Thomas Jefferson National Accelerator Facility (TJNAF).
- DOE and NSF participation in experiments performed at INFN Laboratories concerns Experiments ICARUS, BOREXINO, CUORE, WARP, XENON and LUNA2 at the Gran Sasso National Laboratory; Experiments KLOE, FINUDA and DEAR at the PHI-factory DAFNE of the Frascati National Laboratory.
- As to space experiments, Italian/US collaboration is established in the GLAST Project, concerning a calorimeter based on silicon detector technology to be placed on a NASA satellite for studying gamma radiation. Furthermore, US and Italian groups co-operate in the AMS Experiment and in the PAMELA Experiment, to be placed on the Russian satellite Resource-DK1.
- Italian and US physicists co-operate in the CREAM Project: an Antarctic balloon experiment to measure the cosmic ray composition at the knee.
- In the field of gravitational waves, the collaboration between the US Laser Interferometer Gravity Wave Observatory (LIGO) and the analogous Italian-French facility VIRGO located near Pisa, Italy, has been established since the beginning of the construction of the two facilities and the related Memorandum of Understanding has been renewed in June 2004. At a bilateral level, the Italian groups operating detectors AURIGA, EXPLORER and NAUTILUS, and USA researchers from Louisiana University are in strict contact for the mutual exchange of data. At a multilateral level, the co-operation between Italian and US groups on LISA should be recalled.
- In the field of technology development and cross disciplinary applications, a collaboration on R&D concerning the Medipix2 Project is being successfully carried out at CERN. The collaboration is also committed on technology transfer.
- In countries other than Italy and United States of America, Italian and US groups co-operate at the Cosmic Ray Observatory AUGER (Mendoza, Argentina), along with researchers from other 16 countries, and at the MAGIC Experiment (Canaries Islands, Spain), along with other 6 European countries.
- As an example of successful past collaboration, it is worth mentioning the role played by the University of Houston and Massachusetts Institute of Technology (MIT) in Experiment LVD, with the financial support by NSF and DOE respectively, and the US contribution to Experiment MACRO, both performed at the Gran Sasso Laboratory, Italy.
- As to the cooperation in Space Technologies, INAF Structures are also involved in NASA/ESA/ASI missions as SWIFT, ULYSSES, SCORE, CASSINI, DAWN and GLAST, in the planning stage and in analysis of space data.

Interactions among theoretical physicists of the two countries have continued to be very active through reciprocal visits, fellowships and participation to conferences, workshops and seminars both in Italy and in the US. In the framework of the Agreement first signed in 1993, INFN and MIT, Italian post-graduate students attend

the MIT PhD Programme with a joint grant from the two Institutions; the mutual exchange of INFN and MIT senior scientists is also financially supported.

Since 2002, DOE, NSF and INFN carry out a jointly funded Summer Exchange Programme addressed to junior physicists who have completed at least 3 years in an undergraduate curriculum in Physics or Computing studies.

NSF, DOE and INFN periodically review their co-operation in annual meetings held alternatively in Italy and in United States of America.

With regard to the subjects of Astrophysics and Radioastronomy, INAF is involved in a number of projects, facilities, exchanges and experiments with US Institutions. Among these, the most relevant are:

- The Large Binocular Telescope (LBT) originates from a collaboration between Italy and US started many years ago and then extended to Germany. Its specific goal is to undertake the construction and operation of the telescope on Mt. Graham near Safford, Arizona. The LBT project is managed by a consortium (LBT Corporation) and organized in one Corporate Office in Tucson and two Project Offices located in Tucson (Steward Observatory - University of Arizona) and in Florence (INAF-Osservatorio Astrofisico di Arcetri).
- The collaboration between INAF - Istituto di Radioastronomia (IRA) and NSF - National Radio Astronomy Observatory (NRAO) has been established in June 2002 in order to carry out joint programs as VLBI, ALMA and SKA, to share technology and to exchange staff and hosting of visitors on programs of common interest.
- The cooperation between INAF - Osservatorio Astrofisico di Arcetri (OAA) and the National Solar Observatory (NSO) in Sunspot (NM, USA), started some years ago under the terms of a Memorandum, establishing the installation of an Interferometric Bidimensional Spectrometer (IBIS) instrument at the NSO, that was projected by INAF staff. A new Memorandum, signed on June 2005, between INAF-OAA and the Association of Universities for Research in Astronomy (AURA) on behalf of NSO intends to perform upgrades of the IBIS system in order to optimize system performance or to provide new instrumental capabilities for IBIS.

With regard to the subject of human health, we refer to agreements signed in April 2003 between the former Minister of Health, Girolamo Sirchia, and U.S. Department of Health and Human Services Secretary Tommy Thompson, in the areas of cancer, bioterrorism and rare diseases. The Department of Health and Human Services looks forward to its bilateral meeting with the Italian Ministry of Health in November 2005 to discuss further areas of cooperation under these Agreements.

On April 1, 2005 a Memorandum of Understanding was signed between the Government of the Italian Republic and the University of Pittsburgh and the University of Pittsburgh Medical Center. The document states their mutual interest in fostering advanced scientific collaboration in the field of biotechnology, with special regard to

the scientific results achieved at the Istituto dei Trapianti e Terapie ad Alta Specializzazione in Palermo.

Following upon the July, 19, 2001 pledge of President George W. Bush and Prime Minister Silvio Berlusconi to conduct joint research on climate change science and technology , a broad cooperation between Ministry for the Environment and Territory, Ministry of Productive Activities and the United States Department of State and the United States Department of Energy was launched.

On June 16, 2003, on the occasion of the third United States-Italy joint meeting on Climate Change Science and technology”, convened in Washington, D.C. D.C., Harlan Watson, Senior Climate Negotiator and Special Representative of the United States Department of State, and Corrado Clini, Director General of the Italian Ministry for the Environment and Territory signed a joint statement reconfirming the commitment to the bilateral partnership on climate change.

On September 15 and 16, 2003, the United States and Italy convened a workshop and high level discussion on “Clean Energy Technologies and Climate Change” in Sacramento, California. United States Under Secretary of State for Global Affairs, Paula Dobriansky, and Italian Minister for the Environment and Territory, Altero Matteoli , who led the respective delegation, signed a joint statement on Clean Technologies and Climate Change

On October 20, 2004 in Venice, Italy hosted the fourth United States - Italy joint meeting on Climate Change Science and Technology. Minister Altero Matteoli and Under-Secretary Paula Dobriansky leded respective delegation and signed a joint statement on climate change and technology.

NOAA and the Ministry of Environment and Land Protection signed a cooperative agreement to collaborate on management and research associated with marine protected areas and ecosystem management in both countries.

ANNEX IV

Subject	Key Words	Project title	Principal Investigator Italy	Institution Italy	Principal Investigator USA	Institution USA
B	HCV, immune response, vaccine, clinical trials	Study on Vaccine for Hepatite C (HCV)	Sergio Abrignani, Fondazione INGM, Milano sergio.abrignani@ingm.it	Fondazione INGM, Milano	Adrian Di Bisceglie	St. Louis University Hospital-MO
B	Calcium, Extracellular signals, Electrophysiology	Pathophysiology of extracellular Calcium signals	Rosa Caroppo	Università di Bari Dip. di Fisiologia Generale ed Ambientale	Silvana Curci, Harvard Medical School, Boston 617 3237700 ext 5902 scurci@rics.bwh.harvard.edu	Harvard Medical School, Boston Dep. of Surgery, Brigham and Women's Surgical
B	Stem cells, Fluorescence imaging, Physiology	Physiology of engrafted stem cells	Matilde Colella	Università di Bari Dip. di Fisiologia Generale ed Ambientale	Aldebaran M. Hofer	Harvard Medical School, Boston Dep. of Surgery, Brigham and Women's Surgical 617 3237700 ext 5902
B	FRET, CAMP, PKA	Direct imaging of intracellular cAMP in the study of cAMP-related pathologies	Andrea Gerbino	Università di Bari Dip. di Fisiologia Generale ed Ambientale	Aldebaran M. Hofer	Harvard Medical School, Boston Dep. of Surgery, Brigham and Women's Surgical 617 3237700 ext 5902
B	Neurodegeneration, Oxidative stress, Mitochondrial gene expression	Role of glial cells in brain development, response to injury and neural repair	Anna Maria Giuffrida Stella amgsbioc@unict.it	Università di Catania Dip. di Chimica +39 095 7384074	Jean deVellis jdevellis@mednet.ucla.edu	Mental Retardation Research Center, UCLA 001 3108259395
B	Electromagnetic, Antenna, Safety	Prediction of the human exposure levels to electromagnetic fields	Renato Cicchetti cicchetti@die.uniroma1.it	Università "La Sapienza" di Roma Dip. di Ingegneria Elettronica	Antonio Faraone Antonio.Faraone@motorola.com	Motorola Corporate EME Research Laboratory +1-954-723-4413
B		Biorepositories : Methods for evaluation of stem cells	Rodolfo Quarto	Di.C.T.F.A. Dipartimento di Chimica e Tecnologie Farmaceutiche e Alimentari Via Brigata Salerno (ponte) 16147 Genova	Antonio Giordano, M.D., Ph.D.,	Temple University's Sbarro Institute for Cancer Research and Molecular Medicine

B	Vaccine, Plant derived	Plant - derived vaccines against Hepatitis C virus.	Luca Santi	Università degli Studi di Roma "Tor Vergata".	Dr. Charles J. Arntzen.	Center for Infectious Disease and Vaccinology (CIDV) Arizona State University, Tempe, AZ 85287-5401
B	Plants, genomic	Tomato genomics	G.Giuliano	ENE/BIOTECH Unit	Steven Tanksley Jim Giovannoni	Cornell University / USDA, Ithaca
B	Plants, Biopharmaceutics	Biopharmaceutical Production in plants	Eugenio Benvenuto	ENE/BIOTECH Unit	Charles Arntsen Wisipov Vidadi	Fraunhofer USA Center for Molecular Biotechnology
EN	Climate Change	The impacts of climate change and the national and international for the energy sector	Carlo Carraro	Fondazione Eni "Enrico Mattei"	Henry Jacoby Ray Kopp John P. Weyant Richard Richels	Massachusetts Institute of Technology (MIT) Resources for the Future (RFF) Stanford University Electric Power Research Institute (EPRI)
EN	Fusion Energy, Pellet, Injectors	Criogenic highspeed pellet injectors	Silvio Migliori	ENE/ICT Division	Stephen K. Combs	Oak Ridge Nat. Lab. - Fusion Energy Division
EN	Aerosol	Aerosol Chemical and Physical Properties	Sandro Fuzzi	ISAC CNR	J.H. Seinfeld	CALTECH - Pasadena NOAA/OAR/CDC (Boulder)
EN	Atmosphere	Chemical Composition of Atmosphere Data Analysis and Exchange Processes Parametrisation	Francesco Tampieri	ISAC CNR	Vittorio Canuto	Columbia University
EN	Climate Change	Impact Study of Climate Change on Mediterranean Climate of Northern Hemisphere	Teresa Nanni	ISAC CNR	Henry Diaz	NOAA/CDC (Boulder)
EN	Aerosol	Studies on aerosol and chemical composition of the atmosphere	Franco Prodi	ISAC CNR	John J. De Luisi	NOAA/OAR/CDC (Boulder)

EN	Carbon	New methods to measure the carbon balance at a regional scale	Franco Miglietta	IBIMET CNR		NOAA-ATDD, Oregon State University
EN	Aerosol	In situ aerosol observations	Pasquale Palumbo	Università Parthenope	Frans J.M.Rietmejer	University of New Mexico, Los Alamos National Laboratory and State University of New York
EN	ecosystem simulation	Simulations on terrestrial ecosystems	Giuseppe Scarascia Mugnozza	IBAF CNR	Rick Norby Laboratory	Oak Ridge Michigan Technological University, USDA-Forest Science Lab
EN		Ocean- atmosphere inter-annual, decadal, multi-decadal variability	Antonio Navarra	INGV		Geophysical Fluid Dynamics Laboratory (Princeton), National Center for Atmospheric Research (Boulder), COLA (Washington), IPRC
H	Leukemia/Lymphoma/Gene profiling/Proteomics/Oncogenesis Therapeutic targets	Using gene expression profiling and proteomic analysis in human lymphoid malignancies to define oncogenic pathways and identify new potential therapeutic targets	Paolo Ghia, MD PhD	Vita-Salute San Raffaele, Milano	Angelo Cardoso, MD PhD	Harvard Medical School, Boston, MA
H	Vaccine, Animal Model	Monkey Pox and Small Pox Vaccine	Fabrizio Poccia, Maria Rosaria Capobianchi,	I.N.M.I. "Lazzaro Spallanzani" I.R.C.C.S. Division of Advanced Diagnostics, Via Portuense 292, 00149 Roma	Genoveffa Franchini,M.D.	Animal Model and Retroviral Vaccine Section, Vaccine Branch, NCI-NIH, Bethesda MD 20812

H	Oncology, tumor progression, targeted treatments	Surviving pathway and related factors in cancer and normal cells: relevance for tumor progression and treatment	Maria Grazia Daidone	Istituto Nazionale per lo Studio e la Cura dei Tumori, Milano	Dario C. Altieri, MD	UMass Cancer Center University of Massachusetts Medical School, LRB-428 364 Plantation Street, Worcester, MA
H	Molecular Interaction Maps (NIMs), c-Myc, Bcl-XL	Understanding the role of a network of signaling-proteins involved in control of programmed cell proliferation and programmed cell death, with special reference to network pathologies related to malignant transformation	Silvio Parodi	Department of Oncology, Biology and Genetics, University of Genoa	Kurt W. Kohn, MD, PhD ; Ives Pommier, MD, PhD	Laboratory of Molecular Pharmacology, National Cancer Institute, National Institute of Health, Bethesda
H	Genetics	Role of the Crtp gene during skeletal formation	Rieri Cancedda Patrizio Castagnola	Istituto Nazionale per la Ricerca sul Cancro (IST), Genova, Italy	Brendan Lee Roy Morello	Dpt of Molecular and Human Genetics - Baylor College of Medicine, Houston – Texas
H	Trait heritability; Quantitative traits (QTL's); Founder population; Cardiovascular risk factors; plurality	SardiNIA Project: genetics and epidemiology of aging-associated conditions in the Sardinian population	Antonio Cao, acao@mcweb.unica.it; Manuela Uda	Institute of Neurogenetics and Neuropharmacology (INN-CNR), Cagliari	David Schlessinger schlessingerd@grc.nia.nih.gov	National Institute on Aging of the National Institutes of Health (NIA-NIH)
H	Chromatin; X-inactivation; SYBL1	X chromosome dynamics and gene function	Michele D'Urso, Michele@iigbna.ligb.na.cnr.it	International Institute of Genetics and Biophysics (IIGB-CNR), Naples	David Schlessinger schlessingerd@grc.nia.nih.gov	National Institute on Aging of the National Institutes of Health (NIA-NIH)
H	Expression profiling; Ectodermal dysplasias; Skin appendages	Analysis of comparative gene expression changes in Incontinentia Pigmenti 2 and in Anhidrotic Ectoderma Dysplasia	Valeria Orsini, Orsini@iigbna.ligb.na.cnr.it	International Institute of Genetics and Biophysics (IIGB-CNR), Naples	David Schlessinger schlessingerd@grc.nia.nih.gov	National Institute on Aging of the National Institutes of Health (NIA-NIH)

H	Hybridoma; Monoclonal antibody; DNA immunization; Ret; CD30; Immunotherapy	Generation of novel monoclonal antibodies to the extracellular domain of the Ret receptor tyrosine kinase	Giancarlo Vecchio, Vecchio@unina.it; Giuliana Salvatore gsalvato@unina.it; Massimo Santoro, masantor@unina.it	IEOS-CNR Naples and Department of Molecular and Cellular Biology and Pathology, University of Naples	Ira Pastan, Pasta@helix.nih.gov; Satoshi Nagata, tn150@nih.gov	National Cancer Institute (NCI-NIH), Laboratory of Molecular Biology
H	Recombinant vaccine; Fowlpox virus; Prime-boost vaccination; Virus-like particle	Construction and evaluation of the prophylactic and/or therapeutic activity against HIV/SIV of recombinant immunogens based on the genetic background of poxviruses	Carlo DeGiuli Morghen, carlo.degiulimorghen@unimi.it; Francesco Clementi, francesco.clementi@unimi.it; Antonia Radaelli, antonia.radaelli@unimi.it	Department of Medical Pharmacology, University of Milan; Dept. of Pharmacological Science, University of Milan; and CFCM-CNR, Milan	Genoveffa Franchini, franchig@mail.nih.gov	National Cancer Institute (NCI-NIH), Vaccine Branch
H	ABC transporter genes; Multidrug resistance (MDR); Multidrug resistance-associated protein (MRP)	Construction and characterization of human antitumor ribonucleases; Identification of new substrates for the ABC transporter MRP2	Renata Piccoli, piccoli@cds.unina.it; Angela Arciello, anarciel@unina.it	Dept. of Structural and Functional Biology, University of Naples	Michael Gottesman, michaelg@box-m.nih.gov	National Cancer Institute (NCI-NIH), Center for Cancer Research, Laboratory of Cell Biology
H		Analysis of antisense oligonucleotide function	Fortunato Ciardiello, fortunato.ciardiello@unina2.it; Gianpaolo Tortora, gtortora@unina.it	Dept. of Molecular and Clinical Endocrinology and Oncology, University of Naples	Yoon S. CHO-CHUNG, Yc12b@nih.gov	National Cancer Institute (NCI-NIH), Cellular and Molecular Physiology Section
H	Ras; NIH3T3; RNAi; microarray; osteopontin; Autocrine pathways; Rho GTPases; Rho activation	Mechanisms of receptor tyrosine kinase signaling	Giancarlo Vecchio, Vecchio@unina.it; Massimo Santoro, masantor@unina.it; Maria Domenica Castellone, mcastell@unina.it	Department of Molecular and Cellular Biology and Pathology, University of Naples	Silvio Gutkind, gutkind@dir.nidcr.nih.gov	National Institute of Dental and Craniofacial Research, (NIDCR-NIH), Oral and Pharyngeal Cancer Branch

H	EMSA; Embryonic stem cells; High mobility-group proteins; Lymphopoiesis; Recombination activating gene 2 (RAG2); Pituitary adenomas; NK1.1; IL-2; IL-15; Lymphomas; Insulin resistance; Pancreatic carcinoma; apoptosis;	HMGA1-dependent gene regulation	Alfredo Fusco, afusco@napoli.com	IEOS-CNR, Naples and Department of Molecular and Cellular Biology and Pathology, University of Naples	Carlo Maria Croce, carlo.croce@osumc.edu	Dept. of Molecular Virology, Immunology and Medical Genetics, College of Medicine and Public Health, The Ohio State University, Columbus, Ohio
H	MEN1; menin; oncogene; tumor suppressor; AP1; insulinoma; gastrinoma; carcinoid; hyperparathyroidism	Molecular basis of neoplastic transformation in endocrine tissues	Giancarlo Vecchio, vecchio@unina.it; Massimo Santoro, masantor@unina.it; Aniello Cerrato, a.cerrato@sun.ceos.na.cnr.it	IEOS-CNR Naples, and Department of Molecular and Cellular Biology and Pathology, University of Naples	Steven Marx, stephenm@intra.niddk.nih.gov; Brian Oliver, oliver@helix.nih.gov	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK-NIH), Metabolic Diseases Branch and Developmental Biology Section
H	Signal pathways; NFkB activator; Adaptor TANK; Transcriptional activation; Ikb kinase; NEMO/IKKy interacting protein	Molecular mechanisms regulating the activation of the IKK-complex	Antonio Leonardi, leonardi@unina.it	Department of Molecular and Cellular Biology and Pathology, University of Naples	Ulrich Siebenlist, usiebenlis@niaid.nih.gov	National Institute of Allergy and Infectious Diseases, (NIAID-NIH), Immune Activation Section
H	Radiotracers; G-protein coupled receptors; FDG; PET; oncology; oncotropic tracers	Development of positron emitter protein and peptide based radiopharmaceuticals for PET imaging in oncology	Luigi Aloj, luigaloj@unina.it; Bruno Alfano, alfanobr@unina.it	Institute of Biostructures and Bioimages, IBB-CNR, Naples	William C. Eckelman, eckelman@nih.gov	Warren Grant Magnusson Clinical Center, Positron Emission Tomography Dept. (CC-PETD-NIH)

H	Keratinocyte; Stem cells; Differentiation; Three-dimensional cultures; Cell cloning	GM-CSF activity in non-hemopoietic tumor cell growth in three-dimensional histoculture	Roberto Revoltella, r.revoltella@imd.pi.nr.it	Institute of Biomedical Technologies, Unit of Immunobiology and Cell Differentiation, CNR Pisa	Leonid Margolis, margolis@helix.nih.gov	National Institute of Child Health and Human Development, (NICHD-NIH), Laboratory of Cellular and Molecular Biophysics
H	Psichiatric Health, Mental Recovery, Global health	Project One Billion	Ranieri Guerra	ISS	Richard Mollica	Harvard Program in Refugee Trauma (HPRT) Harvard University 22 Putnam Avenue Cambridge, MA 02139
ICT	Computer Science, Computer Vision, Control Theory	A variational framework for reconstruction of complex 3D shape and photometry from multiple images	Giorgio Picci picci@dei.unipd.it Ruggero Frezza frezza@dei.unipd.it Alessandro Chiuso chiuso@dei.unipd.it Andrea Mennucci a.mennucci@sns.it	Università di Padova, Scuola Normale Superiore di Pisa	Stefano Soatto soatto@ucla.edu	University of California
ICT	Computer science	Wireless Mobile Entertainment	Marco Roccetti	Università di Bologna Dip. di Informatica	Mario Gerla gerla@cs.ucla.edu Giovanni Pau gpau@cs.ucla.edu	UCLA Dep. of Computer Science (310) 206 3212
ICT	GRID-Computing technology	GRID for Financial Modeling and Simulation	Stefano Baroni	ICPT-UNESCO/IAEA, Trieste	Mario Gerla gerla@cs.ucla.edu Giovanni Pau gpau@cs.ucla.edu	UCLA Dep. of Computer Science (310) 206 3212
ICT	Computer science	Ad Hoc Routing in Sensor Networks	Rodolfo Zich	Istituto Superiore Mario Boella, Torino	Mario Gerla gerla@cs.ucla.edu	UCLA Dep. of Computer Science (310) 206 3212
ICT		DAMASCO	Edoardo Calia	Istituto Superiore Mario Boella, Torino	Mario Gerla Giovanni Pau	UCLA Henry Samueli School of Engineering
ICT		Consorzio Winmec	Edoardo Calia	Istituto Superiore Mario Boella, Torino	Rajit Gadh	UCLA Henry Samueli School of Engineering
ICT	Computer science	Interlink	Mario Roccetti	Università Bologna	Mario Gerla Giovanni Pau	UCLA - Henry Samueli School of Engineering

ICT	Computer Vision, Pattern Recognition, Machine Learning	Randomized Invariants for 3-D Recognition	Alessandro Verri	Universita' di Genova, Dipartimento di Scienza dell'Informazione	Prof. R. Manduchi	University of California Santa Cruz Department of Computer
ICT	Networks, Wireless	ITR-SY: The Aware Home: Sustaining the Quality of Life for an Aging Population	Imrich Chlamtac Oscar Mayora	CREATE-NET	James D. Foley, Gregory D. Abowd, Elizabeth Mynatt	The Georgia Institute of Technology
ICT	Networks, Wireless	ExScal: Extreme Scale Wireless Sensor Networking	Imrich Chlamtac Davide Mandato	CREATE-NET	Anish Arora	Ohio State University
ICT	Networks, Wireless	WDM-based access networks for the Next Generation Internet	Imrich Chlamtac Hagen Woesner	CREATE-NET	Eytan Modiano	Massachusetts Institute of Technology
N	Nanostructures, Semiconductors, Growth, Optical Spectroscopy	High resolution Optical Spectroscopy Study on Epitaxial Growth and Nanolithography Techniques for Semiconductor Nanostructures	Vittorio Pellegrini	Centro NEST, Scuola Normale Superiore, Pisa	Prof. Aron Pinczuk	Centro NSEC, Columbia University
N	Nanostructures	Nanostructuring of Superconducting Materials	Enrica Mezzetti	INFN	G. Crabtree	Argonne National laboratory, Science Division
N	Nanostructures Wide gap semiconductors, Solid-liquid interfaces	First-principles investigations of solid/liquid interfaces at the nanoscale, with focus on biocompatible semi-conductors	Alessandra Catellani	CNR-IMEM, Parma	Giulia Galli galligygi1@lnl.gov	Lawrence Livermore National Laboratory
N	Nanoelectronics devices	Techniques for the use of nanoelectronics devices and their process/fabrication	Franco Maloberti Ferdinando Amman	Università degli Studi di Pavia	Fabrizio Lombardi Alfonso Centuori alfonso@centuori.net	Northeastern University, Boston

N	Nanotechnologies and Material Science	Application of Glassy metals for industrial tools and for seismic attenuation supersprings. Development and testing of silicon and sapphire flex joints.	Francesco Fidecaro francesco.fidecaro@df.unipi.it Alessandro Bertolini	Università di Pisa	Riccardo De Salvo desalvo@ligo.caltech.edu	LIGO (US National Science Foundation)
N	Nanosystems	Excitations and correlation effects in nanoscale systems	Elisa Molinari	National Center on nanoStructures and bioSystems at Surfaces (S3)	L.J. Sham	Physics Dep. University of California at San Diego, CA
P	Material production for strategic applications, innovative product design, nano-micro materials, pharmaceuticals, green chemistry	Multiscale phenomena in chemical engineering	Prof. Soldati, Prof. Vannozzi (University of Udine), Prof. Mauri, Prof. Andreussi (University of Pisa)	University of Udine, University of Pisa	Prof. Homsy, Prof. Leal, Prof. Banerjee, Prof. Chmelka	University of California at Santa Barbara
P	Numerical Simulation	Numerical simulation of the flow inside a mechanical heart valve	Roberto Verzicco verzicco@poliba.it	Politecnico di Bari Dip. di Ingegneria Meccanica e Gestionale +39 080 5963898	Elias Balaras Ugo Piomelli	University of Maryland - Dep. of Mechanical Engineering
P	Theoretical Modelisation; Granular Materials	Thoretical, Numerical, and Experimental Model on granular materials	Luigi La Ragione l.laragione@poliba.it	Politecnico di Bari	James Thomas Jenkins jtj2@cornell.edu	Cornell University
P	Astrophysics, Black holes, Space	Theoretical Astrophysics with an emphasis on the Physics of black holes	Remo Ruffini	International Center for Relativistic Astrophysics Piazzale della Repubblica, 10 65100 Pescara.	Fulvio Melia melia@physics.arizona.edu	University of Arizona Dep. of Physics and Astronomy
P		CDF	Luciano Ristori	INFN	Young-Kee Kim Robert Roser	DOE-NSE (Fermi National Laboratory)
P		BaBar	Mauro Morandin	INFN	David MacFarlane	DOE (Stanford Linear Accelerator Center)
P		CLAS/AIACE	Patrizia Rossi Marco Ripani	INFN	Volker Burkert	DOE-NSF (TJNAF)

P		ELETTRON/LEDA	Franco Garibaldi	INFN	Kees De Jager	DOE-NSF (TJNAF)
P	FEL	High Brightness Beams&Free-Electron Laser	Luigi Palumbo	INFN	James Rosenzweig John Galayda	Los Angeles University (UCLA) Stanford Linear Accelerator Center
P	Adaptive Optics	Large Binocular Telescope (1)	Piero Salinari	INAF	Richard Powell Richard Freeman	University of Arizona Ohio State University
P	Imager on Board Integral Satellite	Support and operation of the Interferometric Bidimensional Spectrometer (IBIS)	Fabio Cavallini	INAF -Osservatorio Astronomico di Arcetri	Thomas Rimmele	The National Solar Observatory (NSO)
P	Very Long Baseline Interferometry	VLBI Science and Technology (2)	Gianni Tofani	INAF -Istituto di Radioastronomia	Paul Vanden Bout	The National Radio Astronomy Observatory (NRAO)
S.T.	Astrophysics, Gamma-ray bursts	SWIFT	Guido Chincarini	INAF	Nils Gherels	NASA
S.T.	Solar System, Heliosphere Space	ULYSSES	R. Bruno P. Veltri, M. Dobrowoluy	INAF		NASA ESA
S.T.	Astrophysics, Gamma-rays, Space	GLAST	R. Bellamini P. Caraveo	INFN INAF ASI	J. Micholson	NASA DOE
S.T.	Aerospace Engineering, Electrical Engineering	Control of Systems with Periodic Coefficients with Application to Active Rotor Control	Patrizio Colaneri colaneri@elet.polimi.it Marco Lovera lovera@elet.polimi.it	Politecnico di Milano Dip. di Elettronica e Informazione	Roberto Celi celi@eng.umd.edu	University of Maryland Dep. of Aerospace Engineering
S.T.	Aerospace Engineering, Robotics	Control of Space Manipulators	Franco Bernelli-Zazzera	Politecnico di Milano Dip. di Ingegneria Aerospaziale	Marcello Romano mromano@nps.edu	US Naval Postgraduate School Dep. of Mechanical and Astronautical Engineering Scientific +1 831 6562885
S.T.	Aerospace Engineering, Spacecraft Dynamics	Dynamics and Control of Spacecraft Dynamics	De Matteis	Università di Roma "La Sapienza" Dip. di Metodi Matematici	Marcello Romano mromano@nps.edu	US Naval Postgraduate School Dep. of Mechanical and Astronautical Engineering Scientific +1 831 6562885

S.T.	Optics, Astrophysics, Gravitation	LIGO-Virgo Collaboration on gravitational radiation detection issues		VIRGO (Istituto di Fisica Nucleare; Centre National de la Recherche Scientifique)	Nelson Christensen nchriste@carleton.edu	LIGO (US National Science Foundation)
------	--------------------------------------	---	--	---	---	---

B = Biotechnology; EN = Energy and Environment; ICT= Information and Communication; H = Health; N = Nanotechnology;
P and BS = Physics and Other Basic Sciences; ST Space Technologies

ANNEX V

	Project title	Principal Investigator Italy	Institution Italy	Principal Investigator USA	Institution USA
B	Master of International Bioethics	F.Saverio Ambesi Impiombato Alfred Tenore	Università degli Studi di Udine	John Estrada Alfonso Vargas	Louisiana State University at Baton Rouge (LA) (225) 578-9897
ITC	Master of Science in Electrical and Computer Engineering	Carlo Naldi	Politecnico di Torino	Piergiorgio L. E. Uslenghi uslenghi@uic.edu	College of Engineering, University of Illinois at Chicago 312 996 6059
ITC	Master of Science in Mechanical Engineering	Fabio Gori	Università di Roma Tor Vergata	Piergiorgio L. E. Uslenghi uslenghi@uic.edu	College of Engineering, University of Illinois at Chicago 312 996 6059
ITC	Master of Science in Computer Science	Giancarlo Spinelli	Politecnico di Milano	Piergiorgio L. E. Uslenghi uslenghi@uic.edu	College of Engineering, University of Illinois at Chicago 312 996 6059
M	International Doctorate Program in Molecular Oncology and Endocrinology	Giancarlo Vecchio vecchio@unina.it	Università di Napoli "Federico II" Dip.di Biologia e Patologia Cellulare e Molecolare "L. Califano" +39 081 746 3324	Vincenzo Casolaro casolaro@jhmi.edu Gerry Litwack gerry.litwack@mail.tju.edu Mary DeLong delongm@od.nih.gov	Johns Hopkins University +1 410 550 2068 Thomas Jefferson University +1 215 503 4634 National Institutes of Health +1 301 594 9605
N	Nanostructured Materials for Solid State Ionic Devices	Enrico Traversa	Università di Roma Tor Vergata	Prof. Eric D. Wachsman	Department of Materials Science and Engineering - Florida University – Gainesville

ANNEX VI

Subject	Key Words	Project title	Principal Investigator Italy	Institution Italy	Principal Investigator USA	Institution USA
B	HCV, immune response, vaccine, clinical trials	Study on Vaccine for Hepatitis C (HCV)	Sergio Abrignani, Fondazione INGM, Milano sergio.abrignani@ingm.it	Fondazione INGM, Milano	Adrian Di Bisceglie	St. Louis University Hospital-MO
B	Vaccine, Plant derived	Plant - derived vaccines against Hepatitis C virus.	Luca Santi	Università degli Studi di Roma "Tor Vergata".	Dr. Charles J. Arntzen.	Center for Infectious Disease and Vaccinology (CIDV) Arizona State University, Tempe, AZ 85287-5404 Duke University,
EN	ecosystem simulation	Simulations on terrestrial ecosystems	Giuseppe Scarascia Mugnozza	IBAF CNR	Rick Norby Oak Ridge Laboratory	Michigan Technological University, USDA-Forest Science Lab
EN	Aerosol	Aerosol Chemical and Physical Properties	Sandro Fuzzi	ISAC CNR	J.H. Seinfeld	CALTECH - Pasadena NOAA/OAR/CDC (Boulder)
H	Genoma	New Methodologies for Data Treatment and Standardization of 3rd Generation Genoma Sequencing	Luciano Milanesi	ITB CNR, Segrate MI	David J.Lipman	NCB, NLM, NIH, Bethesda, MD
H	Leukemia Lymphoma Gene profiling Proteomics Oncogenesis Therapeutic targets	Using gene expression profiling and proteomic analysis in human lymphoid malignancies to define oncogenic pathways and identify new potential therapeutic targets	Paolo Ghia, MD PhD	Vita-Salute San Raffaele, Milano	Angelo Cardoso, MD PhD	Harvard Medical School, Boston, MA

H	Vaccine Animal Model	Monkey Pox and Small Pox Vaccine	Fabrizio Poccia, Maria Rosaria Capobianchi,	I.N.M.I. "Lazzaro Spallanzani" I.R.C.C.S., Division of Advanced Diagnostics, Via Portuense 292, 00149 Roma	Genoveffa Franchini,M.D.	Animal Model and Retroviral Vaccine Section, Vaccine Branch, NCI-NIH, Bethesda MD 20812
H	Trait heritability; Quantitative traits (QTL's); Founder population; Cardiovascular risk factors; plurality	SardiNIA Project: genetics and epidemiology of aging- associated conditions in the Sardinian population	Antonio Cao, acao@mcweb.unica.it; Manuela Uda	Institute of Neurogenetics and Neuropharmacology (INN-CNR), Cagliari	David Schlessinger schlessingerd@grc.nia.nih. gov	National Institute on Aging of the National Institutes of Health (NIA- NIH)
ICT	Computer Science, Computer Vision, Control Theory	A variational framework for reconstruction of complex 3D shape and photometry from multiple images	Giorgio Picci picci@dei.unipd.it Ruggero Frezza frezza@dei.unipd.it Alessandro Chiuso chiuso@dei.unipd.it Andrea Mennucci a.mennucci@sns.it	Università di Padova, Scu	Stefano Soatto soatto@ucla.edu	University of California
ICT		DAMASCO	Edoardo Calia	Istituto Superiore Mario Boella, Torino	Mario Gerla/Giovanni Pau	UCLA - Henry Samueli School of Engineering
ICT	Networks, Wireless	ITR-SY: The Aware Home: Sustaining the Quality of Life for an Aging Population	Imrich Chlamtac Oscar Mayora	CREATE-NET	James D. Foley Gregory D. Abowd Elizabeth Mynatt	The Georgia Institute of Technology
N	Nanosystems	Excitations and correlation effects in nanoscale systems	Elisa Molinari	National Center on nanoStructures and bioSystems at Surfaces (S3)	L.J. Sham	Physics Dep. University of California at San Diego, CA
N	Nanostructures	Nanostructuring of Superconducting Materials	Enrica Mezzetti	INFN	G. Crabtree	Argonne National laboratory, Science Division

P	Astrophysics, Black holes, Space	Theoretical Astrophysics with an emphasis on the Physics of black holes	Remo Ruffini	International Center for Relativistic Astrophysics Piazzale della Repubblica,10 65100 Pescara.	Fulvio Melia melia@physics.arizona.edu	University of Arizona- Dep.of Physics and Astronomy
P	Imager on Board Integral Satellite	Support and operation of the Interferometric Bidimensional Spectrometer (IBIS)	Fabio Cavallini	INAF Osservatorio Astronomico di Arcetri	Thomas Rimmele	The National Solar Observatory (NSO)
S.T.	Aerospace Engineering Electrical Engineering	Control of Systems with Periodic Coefficients with Application to Active Rotor Control	Patrizio Colaneri colaneri@elet.polimi.it Marco Lovera lovera@elet.polimi.it	Politecnico di Milano-Dip.	Roberto Celi celi@eng.umd.edu	University of Maryland- Dep. of Aerospace Engineering
S.T.	Aerospace Engineering, Spacecraft Dynamics	Dynamics and Control of Spacecraft Dynamics	De Matteis	Università di Roma "La Sapienza" Dip. di Metodi Matematici	Marcello Romano mromano@nps.edu	US Naval Postgraduate School-Dep. of Mechanical and Astronautical Engineering Scientific +1 831