



INTERNATIONAL MEETING

Istituto Superiore di Sanità
Rome, Italy
October 1-3, 2008

NEEDS AND CHALLENGES IN TRANSLATIONAL MEDICINE: *Filling the Gap between Basic Research and Clinical Applications*

SCIENTIFIC PROGRAMME

DAY 1 (WEDNESDAY, OCTOBER 1, 2008)

REGISTRATION (8:30 - 9:00)

Opening Ceremony

9:00 - 9:45

F. Fazio, Undersecretary, Italian Ministry of Labour, Health and Social Welfare
E. Garaci, President, Italian National Institute of Health
L. Maiani, President, Italian National Research Council

R. Levi-Montalcini (Nobel Laureate, 1986)

Opening Lecture

9:45 - 10:00

M. Hallen (DG Research)

Needs and challenges in translational medicine: filling the gap between basic research and clinical applications

Session 1 CANCER (10:00 - 13:30)

Chairpersons: F. Cognetti, P.G. Pelicci

10:00 - 10:20

L.A. Liotta (USA)

Cancer proteomics in the discovery of new biomarkers for diagnosis and treatment

10:20 - 10:40

C.M. Croce (USA)

Micro-RNAs and perspectives for cancer therapy

10:40 - 11:00

G.J. Nabel (USA)

Rational vaccine design: immune approaches to cancer and infectious diseases

11:00 - 11:20

M.A. Pierotti (Italy)

Challenges for translational research on cancer and the role of 'Alliance against Cancer' in Italy

11:20 - 11:40

Coffee Break

Chairpersons: R. De Maria, L.G. Spagnoli

11:40 - 12:00

F. M. Marincola (USA)

Predicting the immunologic constant of rejection

12:00 - 12:20

C.J.M. Melief (The Netherlands)

Tumor-specific immunity in cervical cancer patients by a human papillomavirus type 16 E6 and E7 peptides vaccine: perspectives for the development of therapeutic vaccines

12:20 - 12:40

C. Messa (Italy)

Novel imaging strategies for the detection and monitoring of cancer

12:40 - 13:00

P. Boyle (France)

The global problem of cancer: the priority to develop translational research

13:00 - 13:10

D. Bonci (Italy)
Short communication

The miR-15a/miR-16-1 cluster controls prostate cancer progression by targeting multiple oncogenic activities

13:10 - 13:20

E. Proietti, P. Nisticò (Italy)
Short communication

Combination of immunotherapy with chemotherapy to redirect the antitumor immune response: from preclinical studies to patients

13:20 - 13:30

F. Podo (Italy)
Short communication

Molecular imaging and functional genomics approaches on choline metabolism in ovarian cancer

Lunch

13:30 - 14:30

POSTER SESSION

Session 2 NEUROSCIENCES (14:30 - 17:40)

Chairpersons: E. Alleva, M. Pocchiari

14:30 - 14:50	C.L. Masters (Australia)	Rational therapeutic strategies for modifying Alzheimer's disease: translating basic research on A-beta amyloid oligomers
14:50 - 15:10	K.A. Nave (Germany)	Inherited demyelinating neuropathies: from basic to clinical research
15:10 - 15:30	M. Salvetti (Italy)	Multiple sclerosis: pharmacogenomics and personalized drug treatment
15:30 - 15:50	Coffee Break	
15:50 - 16:10	K.P. Lesch (Germany)	Long story short: serotonin transporter in emotion, social cognition, and depression
16:10 - 16:30	S. Di Donato (Italy)	Challenges for translational research in neurodegenerative diseases: a neurogenetic view
16:30 - 16:50	R. Will (UK)	Creutzfeldt-Jakob disease and translational medicine
16:50 - 17:10	A. Aperia (Sweden)	Understanding the molecules that determine behavior; a basis for development of new drugs in neuro-psychiatric disease
17:10 - 17:20	L. Minghetti (Italy) Short communication	F ₂ -isoprostane in umbilical cord plasma as biomarker of oxidant injury in high risk newborns
17:20 - 17:30	A. Vitale (Italy) Short communication	The 3Rs model and the use of non-human primates in Parkinson's disease studies
17:30 - 17:40	S. Principe (Italy) Short communication	Mass spectrometry determination of the quantitative ratio of PRP ^{TSE} allotypes in individuals with genetic transmissible spongiform encephalopathies

DAY 2 (THURSDAY, OCTOBER 2, 2008)

Session 3 RARE DISEASES (8:40 - 11:00)

Chairpersons: D. Taruscio, A. Macri

8:40 - 9:00	S.C. Groft (USA)	The role of the NIH Office of Rare Diseases in fostering translational research
9:00-9:20	D. Taruscio (Italy)	Challenges for translational research in rare diseases: the E-Rare experience
9:20 - 9:40	L. Villard (France)	The European Network on Rett Syndrome
9:40 - 10:00	G. Merlini (Italy)	Systemic amyloidosis: molecular mechanisms and targeted therapy
10:00 - 10:20	A. Ballabio (Italy)	Block of autophagy in lysosomal storage disorders and therapeutic implications

10:20 - 10:40	S. Garattini (Italy)	Clinical trials for the treatment of rare diseases
10:40 - 10:50	R.M. Salvioli (Italy) Short communication	Gaucher disease: from basic research to therapy
10:50 - 11:00	A. Magrelli (Italy) Short communication	MicroRNA and rare tumors: the hepatoblastoma example
11:00 - 11:20	Coffee Break	

Session 4 CARDIOVASCULAR DISEASES (11:20 - 13:40)

Chairpersons: L. Frati, V. Macellari

11:20 - 11:40	G. Condorelli (Italy)	New therapeutic approaches for heart failure treatment
11:40 - 12:00	M.H. Yacoub (UK)	Heart failure: from basic research to clinical applications
12:00 - 12:20	A. Mantovani (Italy)	The long pentraxin PTX3 from innate immunity to vascular pathology
12:20 - 12:40	M. Bartoli (USA)	Molecular mechanisms of retinal vessel dysfunction and clinical implications
12:40 - 13:00	A. Dominiczak (UK)	Genomics, proteomics and other omics in cardiovascular medicine
13:00 - 13:20	A.M. Zeiher (Germany)	Autologous progenitor cell administration for regenerative cardiovascular therapies
13:20 - 13:30	F. Garibaldi (Italy) Short Communication	New perspectives in molecular imaging of cardiovascular diseases
13:30 - 13:40	F. Malchiodi-Albedi (Italy) Short Communication	RAS signalling blockade as a therapeutic approach against early neuroglial dysfunction in diabetic retinopathy
13:40 - 14:40	Lunch POSTER SESSION	

Session 5 INFECTIOUS AND AUTOIMMUNE DISEASES (15:00 - 17:50)

Chairpersons: A. Cassone, B. Ensoli

14:40 - 15:00	H. Hengartner (Switzerland)	Immune response to viral infection: challenges for therapeutic intervention
15:00 - 15:20	B. Autran (France)	The quest for immune correlates protection against AIDS: lessons from long term non progressors and from therapeutic immunisation
15:20 - 15:40	B. Singh (Canada)	Impaired dendritic cell function compromises immune function in type 1 and type 2 diabetes
15:40 - 16:00	Coffee Break	

Chairpersons: G. Ippolito, S. Vella

16:00 - 16:20	A.D. Santin (USA)	Therapeutic dendritic cell-based vaccines against HPV-induced tumors
16:20 - 16:40	P. von Landenberg (Germany)	TLRs and autoimmune diseases
16:40 - 17:00	V. Barnaba (Italy)	Insights into the mechanisms of cross-presentation and immune-regulation in infectious and autoimmune diseases
17:00 - 17:10	F. Aloisi (Italy) Short Communication	Translating new data on multiple sclerosis pathogenesis into novel therapeutic concepts
17:10 - 17:20	A. Cassone (Italy) Short Communication	Cross-kingdom vaccines: dogma and heresy
17:20 - 17:30	F.M. Buonaguro (Italy) Short Communication	Morphogenomic immune responsiveness to preventive/therapeutic vaccines
17:30 - 17:40	E.M. Coccia (Italy) Short Communication	IFN- β as a natural adjuvant to improve BCG vaccination

DAY 3 (FRIDAY, OCTOBER 3, 2008)

Session 6 CRITICAL REGULATORY ISSUES FOR PROMOTING BIOMEDICAL TRANSLATIONAL RESEARCH (9:00 -11:05)

Chairpersons: C. Pini, M. Bettoni

9:00 - 9:20	H.-G. Eichler (UK)	EMA's role and activities for promoting translational medicine in Europe
9:20 - 9:40	C.-L. Julou (Belgium)	The sponsors' point of view on the critical regulatory issues at European level impacting on translation from laboratory to bedside
9:40 - 10:00	U. Kalinke (Germany)	How implementation of the European clinical trials directive has impacted on the approach to translational medicine in Germany
10:00 - 10:20	H.M. Buchanan-Smith (UK)	The state of the art of regulatory aspects of the use of animals in biomedical studies: the case of non-human primates
10:20 - 10:35	A. Meneguz (Italy)	Regulatory challenges in first in man clinical trial with advanced therapy
10:35- 10:50	M.C. Galli (Italy)	Towards a European harmonisation of the requirements for first clinical use of advanced therapy medicinal products: preclinical requirements for gene therapy medicinal products
10:50 - 11:05	G. Migliaccio (Italy)	Towards a European harmonisation of the requirements for first clinical use of advanced therapy medicinal products: preclinical requirements for cell-based medicinal products
11:05 - 11:35	Coffee Break	

Session 7 NATIONAL AND INTERNATIONAL INITIATIVES FOR PROMOTING BIOMEDICAL TRANSLATIONAL AND CLINICAL RESEARCH (11:35 - 13:45)

Chairpersons: E. Garaci, G. Rasi

11:25 - 11:40	R. Balling (Germany)	EATRIS: towards a European infrastructure for biomedical translational research
11:40 - 11:55	J. Demotes-Mainard (France)	ECRIN: towards a European infrastructure for clinical research
11:55 - 12:10	K. Zatloukal (Austria)	BBMRI: the Pan-European research infrastructure for biobanks and biomolecular resources
12:10 - 12:20	G. Tocchini-Valentini (Italy)	INFRAFRONTIER: the European infrastructure for phenotyping and archiving of model mammalian genomes
12:20 - 12:35	F. Belardelli (Italy)	The Italian initiative for biomedical translational research
12:35 - 12:50	I. Ragan (UK)	The Innovative Medicine Initiative (IMI) and challenges in translational research
12:50 - 13:05	L. Matrisian (USA)	Transforming translational cancer research: the role of the National Cancer Institute
13:05 - 13:15	C. Lombardo (Italy)	Coordinating cancer research in Europe: the role of Member States
13:15 - 13:25	U. Ringborg (Sweden)	Coordinating translational cancer research in Europe: the role of the OECI
13:25 - 13:35		
13:35 - 13:45		
13:25	CLOSURE OF THE MEETING	

INTERNATIONAL SCIENTIFIC COMMITTEE

E. Garaci (Honorary President)
R. Balling (Germany)
F. Belardelli (Italy)
J. Demotes-Mainard (France)
S. Garattini (Italy)
F. Marincola (USA)
M. Pierotti (Italy)
K. Zatloukal (Austria)

NATIONAL SCIENTIFIC COMMITTEE

E. Alleva
M. Ferrantini
C. Lombardo
G. Migliaccio
M. Minetti
T. Petrucci
M. Pocchiari
F. Podo
M. Tartaglia
D. Taruscio

LOCAL ORGANIZING COMMITTEE

C. D'Addazio
A. Ferrigno
F. Moretti
M. Romero
E. Rosa
U. Visconti

SECRETARIAT

A. FERRIGNO, C. GASPARRINI, A. MARIANI
Department of Cell Biology and Neurosciences
Istituto Superiore di Sanità
Viale Regina Elena 299, 00161 Rome, Italy
Tel. (39) 0649906095 - 0649906093
Fax (39) 0649902097
E-mail: translational.medicine@iss.it

INVITED SPEAKERS AND CHAIRPERSONS

Enrico Alleva, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

Francesca Aloisi, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

Anita Aperia, Karolinska Institutet, Stockholm, Sweden

Brigitte Autran, Laboratoire d'Immunologie Cellulaire, INSERM U543, Hôpital Pitié-Salpêtrière, Paris, France

Andrea Ballabio, Telethon Institute of Genetics and Medicine (TIGEM), Napoli, Italy

Rudi Balling, Helmholtz Centre for Infection Research, Braunschweig, Germany

Vincenzo Barnaba, Department of Internal Medicine, University of Rome “La Sapienza”, Rome, Italy

Manuela Bartoli, University of South Carolina School of Medicine, Columbia, SC, USA

Filippo Belardelli, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

Monica Bettoni, General Director, Istituto Superiore di Sanità, Rome, Italy

Desiree Bonci, Department of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy

Peter Boyle, International Agency for Research on Cancer, Lyon, France

Hannah Buchanan-Smith, Department of Psychology, University of Stirling, Scotland, UK

Antonio Cassone, Department of Infectious, Parasitic and Immuno-mediated Diseases, Istituto Superiore di Sanità, Rome, Italy

Eliana M. Coccia, Department of Infectious, Parasitic and Immuno-mediated Diseases, Istituto Superiore di Sanità, Rome, Italy

Francesco Cognetti, Istituto Nazionale Tumori Regina Elena IRCSS, Rome, Italy

Gianluigi Condorelli, National Research Council, Rome, Italy

Carlo M. Croce, Department of Molecular Virology, Immunology and Medical Genetics and Comprehensive Cancer Center, Ohio State University, Columbus, OH, USA

Ruggero De Maria, Department of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy

Jacques Demotes-Mainard, INSERM - DRCT, Paris Cedex 13, France

Stefano Di Donato, Neurological Institute Foundation "C. Besta", Milan, Italy

Anna Dominiczak, Cardiovascular Research Centre, University of Glasgow, Scotland, UK

Hans-Georg Eichler, European Medicines Agency (EMA), London, UK

Barbara Ensoli, National AIDS Center, Istituto Superiore di Sanità, Rome, Italy

Ferruccio Fazio, Undersecretary, Italian Ministry of Labour, Health and Social Welfare, Rome, Italy

Luigi Frati, University of Rome “La Sapienza”, Rome, Italy

Maria Cristina Galli, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

Enrico Garaci, President, Istituto Superiore di Sanità, Rome, Italy

Silvio Garattini, Mario Negri Institute for Pharmacological Research, Milan, Italy

Franco Garibaldi, Department of Technology and Health, Istituto Superiore di Sanità and Sezione INFN Sanità, Rome, Italy

Stephen C. Groft, Office of Rare Diseases, National Institutes of Health, Bethesda, MD, USA

Manuel Hallen, Directorate F - Health, Directorate-General for Research, European Commission, Brussels, Belgium

Hans Hengartner, Institute of Experimental Immunology, University Hospital Zurich, Zürich, Switzerland

Giuseppe Ippolito, I.N.M.I. Lazzaro Spallanzani I.R.C.C.S. Rome, Italy
Christine-Lise Jolou, European Federation of Pharmaceutical Industries and Associations (EFPIA), Brussels, Belgium
Ulrich Kalinke, Paul-Ehrlich-Institut, Langen, Germany
Philipp von Landenberg, Institut für Klinische Chemie und Laboratoriumsmedizin, Johannes Gutenberg Universität Mainz, Mainz, Germany
Klaus P. Lesch, Department of Psychiatry and Psychotherapy, Molecular and Clinical Psychobiology, University of Würzburg, Germany
Fiorella Malchiodi-Albedi, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Rita Levi-Montalcini, European Brain Research Institute, Rome, Italy
Lance A. Liotta, George Mason University, Center for Proteomics & Molecular Medicine, Fairfax, VA, USA
Claudio Lombardo, Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy, Focal Point International Affairs, Alleanza Contro il Cancro, Rome, Italy
Velio Macellari, Department of Technology and Health, Istituto Superiore di Sanità, Rome, Italy
Armando Magrelli, National Center of Rare Diseases, Istituto Superiore di Sanità, Rome, Italy
Luciano Maiani, National Research Council, Italy
Agostino Macri, Department of Food Safety and Animal Health, Istituto Superiore di Sanità, Rome, Italy
Alberto Mantovani, Istituto Clinico Humanitas, Milan, Italy
Francesco M. Marincola, Immunogenetics Section, Department of Transfusion Medicine, Clinical Center, National Institutes of Health, Bethesda, MD, USA
Colin L. Masters, Department of Pathology, The University of Melbourne, Victoria, Australia
Lynn Matrisian, National Cancer Institute (NCI), National Institutes of Health, Bethesda, MD, USA
Cornelis J. M. Melief, Department of Immunohematology and Blood Transfusion, Leiden University Medical Center, Leiden, the Netherlands
Annarita Meneguz, Department of Drug Research and Evaluation, Istituto Superiore di Sanità, Rome, Italy
Giampaolo Merlini, Center for Research and Treatment of Systemic Amyloidoses, Fondazione IRCCS, Policlinico San Mateo, Pavia, Italy
Cristina Messa, Department Nuclear Medicine, San Gerardo Hospital, University of Milano-Bicocca, Monza, Italy
Giovanni Migliaccio, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Luisa Minghetti, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Gary J. Nabel, Vaccine Research Center, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA
Klaus A. Nave, Department of Neurogenetics, Max Planck Institute of Experimental Medicine, Göttingen, Germany
Paola Nisticò, Department of Experimental Oncology, Istituto Nazionale Tumori Regina Elena, Rome, Italy
Pier G. Pelicci, Department of Experimental Oncology, European Institute of Oncology, Campus IFOM-IEO, Milan, Italy
Marco A. Pierotti, Fondazione IRCCS Istituto Nazionale dei Tumori, Milano, Italy
Carlo Pini, Center for Immunobiologicals Research and Evaluation (CRIVIB), Istituto Superiore di Sanità, Rome, Italy
Franca Podo, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Maurizio Pocchiari, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Serena Principe, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Enrico Proietti, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy
Ian Ragan, CIR Consulting Ltd, London, UK; European Federation of Pharmaceutical Industries and Associations (EFPIA), Brussels, Belgium
Guido Rasi, Italian Medicine Agency, Roma, Italy

Ulrik Ringborg, Cancer Center Karolinska Institute, Stockholm, Sweden

Marco Salvetti, Department of Neurology, Center for Experimental Neurological Therapy, Sant'Andrea Hospital, University "La Sapienza", Rome, Italy

Rosa Maria Salvioli, Department of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy

Alessandro D. Santin, Department of Obstetrics & Gynecology, Yale University School of Medicine, New Haven, CT, USA

Luigi G. Spagnoli, Alliance Against Cancer, Roma, Italy

Bhagirath Singh, CIHR Institute of Infection and Immunity, University of Western Ontario, London, Ontario, Canada

Domenica Taruscio, National Center of Rare Diseases, Istituto Superiore di Sanità, Rome, Italy

Glauco Tocchini-Valentini, Institute of Cellular Biology, National Research Council, Monterotondo, Roma, Italy

Stefano Vella, Department of Drug Research and Evaluation, Istituto Superiore di Sanità, Rome Italy

Laurent Villard, Institut National de la Santé et de la Recherche Médicale (INSERM), Faculté de Médecine de la Timone, Marseille, France

Augusto Vitale, Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

Robert G. Will, National Creutzfeldt-Jakob Disease Surveillance Unit, University of Edinburgh, Edinburgh, United Kingdom

Magdi H. Yacoub, National Heart and Lung Institute, Imperial College London, South Kensington Campus, London, United Kingdom

Kurt Zatloukal, Institute of Pathology, Medical University of Graz, Graz, Austria

Andreas M. Zeiher, Medical Clinic, Department of Cardiology, University of Freiburg, Germany