

# IFN Fundamentals 2014

## Interferon Fundamentals 2014

### From Molecular Mechanisms to Human Diseases

Rome, February 20, 2014

**Auditorium Pocchiari  
Istituto Superiore di Sanità**

Over the last two decades, we have witnessed a tremendous progress in understanding the mechanisms by which interferon (IFN) and other related cytokines act on cells and animal models. Thus, the recent progress in the IFN research has been instrumental for acquiring new and important knowledge in various fields, such as cytokine signaling, antiviral responses, innate and adaptive immunity, immune regulation and tumor immunology and immunotherapy. IFNs (especially IFN- $\alpha$ ) have been widely used in clinical practice for the treatment of some human malignancies and certain infectious diseases with variable responses and some types of IFN are still used in clinical practice.

The meeting is dedicated to the memory of Professor Giovanni Battista Rossi, who introduced the IFN research at the Istituto Superiore di Sanità and promoted a national research program on AIDS in Italy, 20 years after his death.

# PROGRAMME

8.00 *Registration*

8.30 Welcome address

**F. Oleari**, Presidente, Istituto Superiore di Sanità

**L. Frati**, Rettore, Sapienza Università di Roma

**S. Mobilio**, Direttore, Dipartimento di Scienze, Università degli Studi "Roma Tre"

## OPENING SESSION

Chairpersons: **G. Rezza**, **M. Pocchiari**

8.50 Working with GB. Rossi at the Istituto Superiore di Sanità: a personal memory

**P. Verani**

9.00 GB. Rossi's vision of Biomedical Research

**S. Vella**

9.10 On Intuition and the Discovery of Interferon

**I. Gresser**

## SESSION I

Chairpersons: **E. Affabris**, **G. Romeo**

9.30 The role of interferons and other cytokines in the regulation of the immune response

**G. Trinchieri**

10.00 Type I interferon signalling and its stringent control

**S. Pellegrini**

10.30 The NK cells and the Interferons

**A. Santoni**

11.00 *Coffee Break*

## SESSION II

Chairpersons: **A. Battistini**, **EM. Coccia**

11.30 Innate Immune Response to Human Retrovirus Infection

**J. Hiscott**

12.00 The interferon system and autoimmunity

**S. Landolfo**

12.30 High efficiency targeting of IFN- $\alpha$  activity: possible applications in fighting tumors, infections and autoimmunity

**G. Uzé**

13.00 *Lunch and Poster Session*

## SESSION III

Chairpersons: **A. Dolei, MR. Capobianchi**

14.00 Recent insights on the role of interferon in regulating the immune response and perspectives for clinical applications

**F. Belardelli**

14.30 Interferon and antitumor immunity

**TF. Gajewski**

15.00 From infection to immunotherapy: the role of interferon in HCV infection.

**V. Barnaba**

*15.30 Coffee Break*

## ROUND TABLE:

**What have we learned from the clinical use of interferon and how can we translate the recent knowledge in future clinical applications?**

Chairpersons: **E. Proietti, G. Antonelli**

15.45 Introductory remark

**I. Gresser**

15.55 The use of interferon in melanoma patients

**P. Ascierto**

16.10 What IFN- $\alpha$  has meant to hematology and what hematology has meant to IFN- $\alpha$

**R. Foà**

16.25 Lessons from the clinical use of interferon in patients with viral hepatitis

**M. Levrero**

16.40 Interferon and HIV infection: an old therapy for a new opportunity

**G. D'Offizi**

16.55 IFN- $\beta$  and Multiple Sclerosis: from etiology to therapy and back

**M. Salvetti**

17.10 Biological and clinical monitoring of IFN- $\beta$  therapy in Multiple Sclerosis

**A. Bertolotto**

*17.25 Open discussion*

18.00 Final remarks

**F. Belardelli**

## SPEAKERS AND CHAIRPERSONS

- Elisabetta Affabris**, Dipartimento di Scienze, Università degli Studi Roma Tre, Roma
- Guido Antonelli**, Dipartimento di Medicina Molecolare, Sapienza Università di Roma, Roma
- Paolo Ascierto**, Istituto Nazionale Tumori Fondazione "G. Pascale", Napoli
- Vincenzo Barnaba**, Dipartimento di Medicina Interna, Sapienza Università di Roma, Roma
- Angela Battistini**, Dipartimento di Malattie Infettive, Parassitarie ed Immunomediate, Istituto Superiore di Sanità, Roma
- Filippo Belardelli**, Dipartimento di Ematologia, Oncologia e Medicina Molecolare, Istituto Superiore di Sanità, Roma
- Antonio Bertolotto**, Azienda Ospedaliero Universitaria "San Luigi Gonzaga", Orbassano
- Maria Rosaria Capobianchi**, Laboratorio di Virologia, Istituto Nazionale per le Malattie Infettive "L. Spallanzani", Roma
- Eliana Marina Coccia**, Dipartimento di Malattie Infettive, Parassitarie e Immunomediate, Istituto Superiore di Sanità, Roma
- Gianpiero D'Offizi**, Immunoinfettivologia, Istituto Nazionale per le Malattie Infettive "L. Spallanzani", Roma
- Antonina Dolei**, Dipartimento di Scienze Biomediche, Università di Sassari, Sassari
- Robin Foà**, Dipartimento di Biotecnologie Cellulari ed Ematologia, Sapienza Università di Roma, Roma
- Luigi Frati**, Rettore, Sapienza Università di Roma, Roma
- Thomas F. Gajewski**, University of Chicago, Chicago, Illinois, USA
- Ion Gresser**, Centre des Recherches Biomedicales des Cordeliers, Paris, France
- John Hiscott**, Division of Infectious Diseases, Vaccine & Gene Therapy Institute of Florida, USA
- Santo Landolfo**, Dipartimento di Sanità Pubblica e Microbiologia, Università di Torino, Torino
- Massimo Levrero**, Dipartimento di Medicina Interna, Sapienza Università di Roma, Roma
- Settimio Mobilio**, Direttore, Dipartimento di Scienze, Università degli Studi Roma Tre, Roma
- Fabrizio Oleari**, Presidente, Istituto Superiore di Sanità, Roma
- Sandra Pellegrini**, Département d'Immunologie, Institut Pasteur, Paris, France
- Maurizio Pocchiari**, Dipartimento di Biologia Cellulare e Neuroscienze, Istituto Superiore di Sanità, Roma
- Enrico Proietti**, Dipartimento di Ematologia, Oncologia e Medicina Molecolare, Istituto Superiore di Sanità, Roma
- Giovanni Rezza**, Dipartimento di Malattie Infettive, Parassitarie ed Immunomediate, Istituto Superiore di Sanità, Roma
- Giovanna Romeo**, Dipartimento di Scienze e biotecnologie medico-chirurgiche, Sapienza Università di Roma, Roma
- Marco Salvetti**, Centro Neurologico di Terapia Sperimentale (CENTERS), Ospedale S. Andrea, Sapienza Università di Roma, Roma
- Angela Santoni**, Dipartimento di Medicina Molecolare, Sapienza Università di Roma, Roma
- Giorgio Trinchieri**, Center for Cancer Research, National Cancer Institute, Frederick, USA
- Gilles Uzé**, Unité Mixte de Recherche 5235, Centre National de la Recherche Scientifique, University of Montpellier II, Montpellier, France
- Stefano Vella**, Dipartimento del Farmaco, Istituto Superiore di Sanità, Roma
- Paola Verani**, Istituto Superiore di Sanità, Roma

## SCIENTIFIC COMMITTEE

Filippo BELARDELLI  
Elisabetta AFFABRIS  
Guido ANTONELLI  
Angela BATTISTINI  
Eliana M. COCCIA  
Gianna FIORUCCI  
Giovanna ROMEO

## SCIENTIFIC SECRETARIAT

Franca MORETTI  
Phone: +39-06-49906095

## TECHNICAL SECRETARIAT

Anna FERRIGNO  
Phone: +39-06-49906093, Fax: +39-06-49902097  
Rosario INTERNULLO  
Phone: 39-06-49906096, Fax 06-49902097  
Veronica MICHETTI  
Phone: +39 06 49906094, Fax: +39 06 49902097

e-mail: ifnfundamentals2014@iss.it

## GENERAL INFORMATION

### Venue

Istituto Superiore di Sanità, Pocchiar Auditorium  
Viale Regina Elena, 299 – 00161 – Rome

**Number of seats available: 200**

**No Continuing Medical Education (CME) credits will be awarded for this event.**  
**This event is part of the scientific and tutorial activities of the Doctoral School in Biology and PhD Program in Biomedical Sciences and Technologies of University Roma Tre.**

**Participation in this event is free.**

### Conference registration

The registration form can be downloaded from [www.iss.it/ifnf/](http://www.iss.it/ifnf/). The registration form, duly completed and signed must be faxed to the Technical Secretariat (+39-06-49902097) or sent as a PDF file to [IFNfundamentals2014@iss.it](mailto:IFNfundamentals2014@iss.it) by January 31, 2014.

The applications will be accepted until the Auditorium reaches full capacity.

**Information for poster submission and scholarship are available on the website: [www.iss.it/ifnf/](http://www.iss.it/ifnf/)**

### Certificate of participation

Certificates of participation will be available upon request at the end of the event.

**For any information regardig the event, please send an email to [ifnfundamentals2014@iss.it](mailto:ifnfundamentals2014@iss.it) or contact the Technical Secretariat.**

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Organized by



Department of Hematology, Oncology and Molecular Medicine  
in association with

Department of Infectious, Parasitic and Immune-mediated Diseases



Department of Sciences



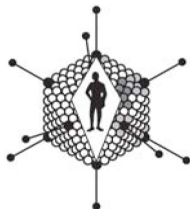
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