

Co-organized by



FONDAZIONE  
INTERNAZIONALE  
MENARINI



UNIVERSITÀ DEGLI STUDI  
DI GENOVA



# THE FUTURE OF MEDICINE STARTS NOW 2019 (2<sup>nd</sup> edition)

*Venue: Porto Antico di Genova - Centro Congressi Genoa*



GENOA (ITALY), SEPTEMBER 26<sup>th</sup>-27<sup>th</sup>, 2019



## WELCOME LETTER

Why attending this meeting?

In 2017 we organized a meeting that we named “The Future of Medicine Starts Now”. The purpose was to discuss the new sophisticated technologies that very rapidly are paving the way to major new diagnostic and therapeutic opportunities and are producing a substantial revolution in medicine.

Given the success of the previous meeting we decided, together with Menarini Foundation, to organize this second edition that accordingly we have named “The Future of Medicine Starts Now 2019 (2<sup>nd</sup> edition)”.

This year the program includes new topics as well as updates of the previous ones.

We have assembled a number of worldwide famous Speakers that are absolute leaders in their field. Lectures will encompass various topics including genomic, genetic engineering, gene therapy, rejuvenation, system biology and “in silico” medicine in the frame of the 4 P medicine: Predictive, Preventive, Personalized and Participatory.

A round table will focus on the organization of life science research Institutions and a section will be devoted to inflammation and to its major role in the pathogenesis of a very vast array of diseases.

It does not occur very often that, in only two days, you can learn so much in the field of biomedical science with no registration fee.

We therefore hope that our effort will convince many people to participate.

We are ready to welcome you in Genoa at end of September 2019.

Presidents of the Meeting  
**Francesco Frassoni** and **Alberto Martini**

## WITH THE PATRONAGE OF



**A.I.E.O.P.**

Associazione Italiana Ematologia  
Oncologia Pediatrica



**A.I.O.M.**

Associazione Italiana  
di Oncologia Medica



European Federation of  
Immunological Societies

**E.F.I.S.**

European Federation  
of Immunological Societies



**G.I.T.M.O.**

Gruppo Italiano per il Trapianto  
di Midollo Osseo



**S.I.E.S.**

Società Italiana Ematologia  
Sperimentale

## PRESIDENTS OF THE MEETING

**Francesco Frassoni**

**Alberto Martini**

### CO-ORGANIZED BY:

**Fondazione Internazionale Menarini**

Edificio L - Strada 6

Centro Direzionale Milanofiori

I-20089 Rozzano (Milan, Italy)

Phone: +39 02 55308110

Fax: +39 02 55305739

E-mail: [milan@fondazione-menarini.it](mailto:milan@fondazione-menarini.it)

Http:\\[www.fondazione-menarini.it](http://www.fondazione-menarini.it)

### ORGANIZING SECRETARIAT

**AVEC S.r.l. - Incentive Paintings**

Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza

Edificio 9 - Ufficio 14

20832 Desio (MB, Italy)

Phone: +39 0362 581579 – Fax: +39 0362 1860074

E-mail: [angela.volpe@avec-eventi.com](mailto:angela.volpe@avec-eventi.com) – [info@avec-eventi.com](mailto:info@avec-eventi.com)

# PROGRAMME - PORTO ANTICO DI GENOVA - CENTRO CONGRESSI, GENOVA

## THURSDAY, SEPTEMBER 26<sup>th</sup>, 2019

10.15 a.m. 10.30 a.m.	<i>Welcome coffee</i>
10.30 a.m. 10.45 a.m.	<i>Welcome Address</i> <b>P. Petralia</b> (Genoa, IT) General Manager Giannina Gaslini Scientific Institute of Genoa <b>S. Viale</b> (Genoa, IT) Vice President, Assessor for Health, Social Policies, Immigration and Emigration, Security - Liguria Region <i>Introduction</i> <b>F. Frassoni</b> (Genoa, IT), <b>A. Martini</b> (Genoa, IT)
10.45 a.m. 11.15 a.m.	<b>L. Luzzatto</b> (Dar es Salaam, TZ) Changing Scenarios in Medicine

### SESSION I - NEW PERSPECTIVES IN MEDICINE

Chairpersons:	<b>P. Pronzato</b> (Genoa, IT), <b>G. Sambuceti</b> (Genoa, IT)
11.15 a.m. 11.45 a.m.	<b>M. Delledonne</b> (Verona, IT) Genome Sequencing Technology Assessment
11.45 a.m. 12.15 p.m.	<b>R. Sharpe</b> (London, UK) Precision Medicine: the Project at NHS
12.15 p.m. 12.45 p.m.	<b>T. Green</b> (Cambridge, UK) JAK/STAT signalling, stem cell subversion and human clonal dynamics
12.45 p.m. 01.15 p.m.	<b>L. Shlush</b> (Toronto, CA) Identifying individual at risk of developing AML years before the onset of the disease
01.15 p.m. 02.15 p.m.	<i>Lunch</i>
Chairpersons:	<b>E. Angelucci</b> (Genoa, IT), <b>G. Ciliberto</b> (Rome, IT)
02.15 p.m. 02.45 p.m.	<b>S. Ravera</b> (Genoa, IT) Changes in glucose metabolism define aging
02.45 p.m. 03.15 p.m.	<b>M. O'Reilly</b> (London, UK) CAR T Cell
03.15 p.m. 03.45 p.m.	<b>M. P. Cicalese</b> (Milan, IT) The future of gene therapy
03.45 p.m. 04.15 p.m.	<i>Coffee Break</i>
Chairpersons:	<b>F. Frassoni</b> (Genoa, IT), <b>A. Martini</b> (Genoa, IT)
04.15 p.m. 06.15 p.m.	<i>Round Table: How to organize a Life Sciences Research Institute</i> <b>G. Ciliberto</b> (Rome, IT), <b>T. Green</b> (Cambridge, UK), <b>G. Merlini</b> (Pavia, IT), <b>A. Uccelli</b> (Genoa, IT)

## FRIDAY, SEPTEMBER 27<sup>th</sup>, 2019

Chairpersons:	<b>M. Piana</b> (Genoa, IT), <b>A. Verri</b> (Genoa, IT)
09.00 a.m. 10.30 a.m.	<i>Round table: Data analysis and simulation in Biomedicine</i> <b>A. Hamblin</b> (Oxford, UK), <b>M. Lorenzi</b> (Sophia Antipolis, FR), <b>A. M. Quarteroni</b> (Milan, IT)
10.30 a.m. 11.00 a.m.	<i>Coffee Break</i>

### SESSION II - INFLAMMATION - PART 1

Chairpersons:	<b>M. Gattorno</b> (Genoa, IT), <b>S. Gordon</b> (Oxford, UK)
11.00 a.m. 11.30 a.m.	<b>M. Netea</b> (Nijmegen, NL) Inflammation and metabolic disease
11.30 a.m. 12.00 p.m.	<b>C. Garlanda</b> (Milan, IT) The IL-1 family
12.00 p.m. 12.30 p.m.	<b>S. Gordon</b> (Oxford, UK) Macrophages as orchestrators of homeostasis and inflammation across diseases
12.30 p.m. 01.00 p.m.	<b>M. Perretti</b> (London, UK) Resolution of inflammation
01.00 p.m. 02.00 p.m.	<i>Lunch</i>

### SESSION III - REJUVENATION AND BIG DATA

02.00 p.m. 03.00 p.m.	<b>J. C. Izpisua Belmonte</b> (La Jolla, CA) Keynote Lecture: Aging and Organ Regeneration
03.00 p.m. 03.30 p.m.	<i>Coffee Break</i>

## FRIDAY, SEPTEMBER 27<sup>th</sup>, 2019

### **SESSION IV - INFLAMMATION - PART 2**

Chairpersons:	<b>M. Cutolo</b> (Genoa, IT), <b>M. Perretti</b> (London, UK)
03.30 p.m. 04.00 p.m.	<b>P. Allavena</b> (Milan, IT) Inflammation and cancer
04.00 p.m. 04.30 p.m.	<b>M. Matteoli</b> (Milan, IT) Inflammation and the nervous system
04.30 p.m. 05.00 p.m.	<b>M. Cutolo</b> (Genoa, IT) Inflammation and rheumatoid arthritis
05.00 p.m. 05.30 p.m.	<b>M. Gattorno</b> (Genoa, IT) Autoinflammatory diseases
05.30 p.m. 05.45 p.m.	Conclusions

## GENERAL INFORMATION

### CONGRESS VENUE

Porto Antico di Genova - Centro Congressi  
Via Magazzini del Cotone  
Modulo 8 (Scirocco Meeting Room - 3<sup>rd</sup> level)  
16128 Genoa (Italy)

### REGISTRATION HOURS

Thursday, September 26<sup>th</sup>: 09.15 a.m. – 06.15 p.m.  
Friday, September 27<sup>th</sup>: 08.00 a.m. – 05.45 p.m.

### OFFICIAL LANGUAGE

English. Simultaneous translation will not be provided.

### REGISTRATIONS

Please return the registration form to:

#### **AVEC S.r.l. - Incentive Paintings**

Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza - Edificio 9 - Ufficio 14  
20832 Desio (MB, Italy)  
Phone: +39 0362 581579 – Fax: +39 0362 1860074  
E-mail: [info@avec-eventi.com](mailto:info@avec-eventi.com)

### TECHNICAL FACILITIES

A Slide Centre with PCs (Windows and Macintosh operating systems) will be available for Speakers to preview and finalise their presentations. Speakers are kindly requested to submit their presentations on USB flash drive to the Slide Centre technicians at least one hour before their talks.

### SLIDE CENTRE OPENING HOURS

Thursday, September 26<sup>th</sup>: 09.15 a.m. – 06.15 p.m.  
Friday, September 27<sup>th</sup>: 08.00 a.m. – 05.45 p.m.

### LUNCH AND COFFEE BREAKS

Lunch and coffee breaks will be provided at the Conference premises.

### ATTENDANCE CERTIFICATE

The attendance certificate will be provided on-site upon request at the Registration Desk.



## FACULTY LIST

### **ALLAVENA Paola**

Department of Immunology and Inflammation  
Clinical and Research Institute Humanitas  
*Milan (Italy)*

### **ANGELUCCI Emanuele**

Division of Hematology  
IRCCS San Martino-IST University Hospital  
*Genoa (Italy)*

### **CICALESE Maria Pia**

San Raffaele Telethon Institute  
for Gene Therapy (SR-Tiget)  
San Raffaele Scientific Institute  
*Milan (Italy)*

### **CILIBERTO Gennaro**

Scientific Direction  
IRCCS Regina Elena National Cancer Institute  
*Rome (Italy)*

### **CUTOLO Maurizio**

Department of Internal Medicine  
University of Genoa  
*Genoa (Italy)*

### **DELLEDONNE Massimo**

Department of Biotechnology  
University of Verona  
*Verona (Italy)*

### **FRASSONI Francesco**

Stem Cell and Cell Therapy Centre  
Giannina Gaslini Scientific Institute of Genoa  
*Genoa (Italy)*

### **GARLANDA Cecilia**

Department of Biomedical Sciences –  
Humanitas University  
Head of Laboratory of Experimental  
Immunopathology – Humanitas Research  
Hospital  
*Milan (Italy)*

### **GATTORNO Marco**

Clinics of Pediatrics and Rheumatology  
Giannina Gaslini Scientific Institute of Genoa  
*Genoa (Italy)*

### **GORDON Siamon**

Sir William Dunn School of Pathology  
University of Oxford  
*Oxford (United Kingdom)*

### **GREEN Tony**

Department of Haematology  
University of Cambridge  
*Cambridge (United Kingdom)*

### **HAMBLIN Angela**

NHS England Clinical Haematology  
Oxford University Hospitals  
*Oxford (United Kingdom)*

### **IZPISUA BELMONTE Juan Carlos**

Gene Expression Laboratories  
Salk Institute for Biological Studies  
*La Jolla, CA (United States)*

### **LORENZI Marco**

Epione Research Group  
Université Côte d'Azur  
*Inria Sophia Antipolis (France)*

### **LUZZATTO Lucio**

Department Haematology  
Muhimbili University of Health  
and Allied Sciences  
*Dar-es-Salaam (Tanzania)*

### **MARTINI Alberto**

Department of Pediatrics  
Giannina Gaslini Scientific Institute of Genoa  
University of Genoa  
*Genoa (Italy)*

## FACULTY LIST

### **MATTEOLI Michela**

Humanitas University  
Head of “Pharmacology and Brain Pathology”  
Lab Director, Neuro Center, Humanitas  
Research Hospital  
*Milan (Italy)*

### **MERLINI Giampaolo**

Amyloidosis Research and Treatment Center  
Biotechnology Research Laboratories  
Department of Molecular Medicine  
University of Pavia  
Fondazione IRCCS Policlinico San Matteo  
*Pavia (Italy)*

### **NETEA Mihai**

Department of Internal Medicine  
Radboud University Medical Center  
*Nijmegen (The Netherlands)*

### **O'REILLY Maeve**

University College Hospital (UCLH)  
*London (United Kingdom)*

### **PERRETTI Mauro**

The William Harvey Research Institute  
Queen Mary University of London  
*London (United Kingdom)*

### **PIANA Michele**

Department of Mathematical Sciences  
University of Genoa  
*Genoa (Italy)*

### **PRONZATO Paolo**

Head of Department of Medical Oncology  
IRCCS A.O.U. San Martino - IST Genoa  
*Genoa (Italy)*

### **QUARTERONI Alfio Maria**

Department of Mathematics  
Politecnico of Milan  
*Milan (Italy)*  
EPFL  
*Lausanne (Switzerland)*

### **RAVERA Silvia**

Experimental Medicine Department  
University of Genoa  
*Genoa (Italy)*

### **SAMBUCETI Gianmario**

Nuclear Medicine,  
IRCCS Policlinico San Martino  
Dept. of Health Science  
University of Genoa  
*Genoa (Italy)*

### **SHARPE Rowena**

Head of Precision Medicine  
Cancer Research UK  
*London (United Kingdom)*

### **SHLUSH Liran**

Department of Immunology  
Weizmann Institute of Science  
*Rehovot (Israel)*

### **UCCELLI Antonio**

Department of Neurosciences, Rehabilitation,  
Ophthalmology, Genetics and Maternal  
and Child Sciences  
University of Genoa  
*Genoa (Italy)*

### **VERRI Alessandro**

Professor of Computer Science  
DIBRIS University of Genoa  
*Genoa (Italy)*



Co-organized by



FONDAZIONE  
INTERNAZIONALE  
MENARINI



UNIVERSITÀ DEGLI STUDI  
DI GENOVA



agf.milano.com

FONDAZIONE INTERNAZIONALE MENARINI SYMPOSIA: N. 429