

June  
29<sup>th</sup>-30<sup>th</sup>  
2017

**GENOVA**  
(ITALY)



## THE FUTURE OF MEDICINE STARTS NOW

How Science and New Technology  
are reshaping Health Science

**ORGANISED BY:**  
**ISTITUTO GIANNINA GASLINI**



Promoted by



FONDAZIONE  
INTERNAZIONALE  
MENARINI

**PROGRAMME**

**PALAZZO DELLA MERIDIANA**

Salita San Francesco, 4  
16124 – Genoa (Italy)





## WHY ATTENDING THIS MEETING?

Together with Menarini Foundation this year we created a new format of the meeting. We named it **"The Future of Medicine Starts Now"**.

The continuous introduction into the field of new approaches give to all of us the impression that every year a new era is starting.

Sophisticated technological tools enter with very fast pace in the practice and are rapidly translated into therapeutic possibilities.

Most of what will be presented and discussed is converging into what is generally defined as "Precision Medicine".

We have assembled a number of worldwide famous Speakers that are absolute leaders in their field. We are very proud that they have accepted to participate in this meeting that aims to encompass many of the new formidable potentialities of biomedicine. The Speakers will present also a glance on the next 10 years scientific-technological-therapeutic developments.

At the same time, we wanted to have Speakers that show how Health Authorities are organising and implementing Precision Medicine at NHS level. Thus, this meeting is not only for Scientists or Clinicians but also for Administrators.

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 June 2017.

**Presidents of the Meeting**

**Prof. Francesco Frassoni and Prof. Alberto Martini**



WITH THE PATRONAGE OF

A.I.E.O.P.

Associazione Italiana Ematologia Oncologia Pediatrica

E.F.I.S.

European Federation of Immunological Societies

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S.I.E.

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S.I.E.S.

Società Italiana Ematologia Sperimentale

S.I.P.

Società Italiana Pediatria



European Federation of  
Immunological Societies



## **Presidents of the Meeting**

**Francesco Frassoni**

**Alberto Martini**

## **Promoted by:**

### **Fondazione Internazionale Menarini**

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Centro Direzionale Milanofiori

I-20089 Rozzano (Milan, Italy)

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E-mail: milan@fondazione-menarini.it

Http:\\www.fondazione-menarini.it

## **Organising Secretariat and CME Provider**

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

#### **Angela Volpe**

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

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I-20832 Desio (MB), Italy

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

E-mail: angela.volpe@avec-eventi.com

June  
29<sup>th</sup>

Thursday / Morning

● 10.00 a.m. – 10.10 a.m. **F. Frassoni** (Genoa, IT), **A. Martini** (Genoa, IT)  
**Opening and Introductory remarks**

● **SESSION I**

**Genome Sequencing, Modification  
and Interpretation**

Chairpersons: **M. Delledonne** (Verona, IT), **A. Verri** (Genoa, IT)

○ 10.10 a.m. – 10.40 a.m. **M. Delledonne** (Verona, IT)  
**Methods, instruments and results:  
the relevance of governing the machinery  
to address the right questions**

○ 10.40 a.m. – 11.10 a.m. **A. Verri** (Genoa, IT)  
**Governing the complexity of information**

○ 11.10 a.m. – 11.40 a.m. **M. Piana** (Genoa, IT)  
**The relevance of the intellectual  
environment for generating important  
research**

○ 11.40 a.m. – 12.10 p.m. **M. Pezzotti** (Verona, IT)  
**An introduction to epigenetics  
and DNA editing via a glass of wine**

○ 12.10 p.m. – 12.40 p.m. **H. Wikman** (Hamburg, DE)  
**The use of circulating tumor cells (CTCs)  
as liquid biopsy tool in cancer research  
and cancer diagnostics.**

● 12.40 p.m. – 01.40 p.m. *Buffet Lunch*

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Thursday / Afternoon

**SESSION II**

**DNA analysis, Genome Manipulation  
and DNA Editing**

Chairpersons:

**R. Lovell-Badge** (London, UK)

**T. Green** (Cambridge, UK)

01.40 p.m. – 02.15 p.m.

**J.C. Izpisua Belmonte** (La Jolla, US)

**LECTURE:**

**Rejuvenation vs Creation of new organs**

02.15 p.m. – 02.45 p.m.

**L. Shlush** (Rehovot, IL)

**Aging, clonal hematopoiesis and preleukemia**

02.45 p.m. – 03.15 p.m.

**M. Li** (Kaust, SA)

**Perspectives of single cell genome analysis**

03.15 p.m. – 03.45 p.m.

*Coffee break*

03.45 p.m. – 04.20 p.m.

**R. Lovell-Badge** (London, UK)

**DNA manipulation and DNA editing.**

**The revolution that will change the future  
of Medicine**

04.20 p.m. – 04.55 p.m.

**T. Green** (Cambridge, UK)

**The effect of mutation order in Neoplasias**

- 04.55 p.m. – 05.25 p.m. **G. Scita** (Milan, IT)  
**The natural history of metastases and the similarities and differences between “liquid” and “solid” tumors**
- 05.25 p.m. – 06.25 p.m. *Welcome Ceremony*

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Friday / Morning

● **SESSION III**

**How therapeutic approaches change in the new era of New Medicine**

Chairpersons: **M. Melazzini** (Rome, IT), **A. Martini** (Genoa, IT)

- 08.30 a.m. – 09.00 a.m. **A. Martini** (Genoa, IT)  
**Clinical trials in pediatric rheumatic diseases**
- 09.00 a.m. – 09.30 a.m. **L. V. Marshall** (London, UK)  
**How to develop clinical trials in the new era of medicine**

**PROGRAMME**



- 09.30 a.m. – 10.00 a.m. **R. Sharpe** (London, UK)  
**How UK is tackling the challenge of implementing precision medicine**
- 10.00 a.m. – 10.30 a.m. **G. FitzGerald** (Philadelphia, US)  
**Future perspective in translational medicine**
- 10.30 a.m. – 11.00 a.m. **A. Superti Furga** (Lausanne, CH)  
**Informatics, bioinformatics and genetic disorders**
- 11.00 a.m. – 11.30 a.m. *Coffee break*
- 11.30 a.m. – 12.00 a.m. **G. Remuzzi** (Bergamo, IT)  
**Nephrology: a glance over the future**
- 12.00 a.m. – 12.30 p.m. **M. Viceconti** (Sheffield, UK)  
**Big data analysis and Virtual Physiological Human**
- 12.30 p.m. – 01.00 p.m. **M. Melazzini** (Rome, IT)  
**New challenges for regulatory agencies**
- 01.00 p.m. – 02.00 p.m. *Buffet Lunch*

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Friday / Afternoon

**SESSION IV**

**The new Era of Gene  
and Cellular Therapy**

Chairpersons:

**M. Sadelain** (New York, US)

**J.C. Izpisua Belmonte** (La Jolla, US)

02.00 p.m. – 02.30 p.m.

**A. Aiuti** (Milan, IT)

**Gene Therapy**

02.30 p.m. – 03.00 p.m.

**A. Bondanza** (Milan, IT)

**CAR-T for cancer autoimmune  
and inflammatory disease**

03.00 p.m. – 03.30 p.m.

**M. Sadelain** (New York, US)

**Chimeric antigen receptors:  
driving immunology towards  
synthetic biology**

03.30 p.m. – 04.00 p.m.

**J.C. Izpisua Belmonte** (La Jolla, US)

**New methods for DNA editing  
and delivering**

04.00 p.m. – 04.30 p.m.

*Coffee break*

**PROGRAMME**




**SESSION V**

**New diagnostic tools**

Chairpersons:

**R. Cingolani** (Genoa, IT)

**M. Li** (Kaust, SA)

- 04.30 p.m. – 05.00 p.m. **R. S. Blumberg** (Boston, US)  
**How colonization by microbiota in early life shapes the immune system**
  - 05.00 p.m. – 05.30 p.m. **A. V. Chervonsky** (Chicago, US)  
**Microbiota and autoimmunity**
  - 05.30 p.m. – 06.00 p.m. **R. Cingolani** (Genoa, IT)  
**Frontier of nanotechnology for health**
  - 06.00 p.m. – 06.30 p.m. **Closing remarks**
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## GENERAL INFORMATION

### Meeting venue

#### **PALAZZO DELLA MERIDIANA**

Salita San Francesco, 4 – 16124 – Genoa (Italy)

### Registration hours:

**Thursday, June 29<sup>th</sup>:** 09.00 a.m. – 06.25 p.m.

**Friday, June 30<sup>th</sup>:** 07.30 a.m. – 06.30 p.m.

### Official language

**English.** Simultaneous translation will not be provided.

### Registrations

**No registration fee is required to attend the Conference.**

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

I-20832 Desio (MB, Italy)

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

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

### Congress website

**[www.ReshapeHealthScience2017.com](http://www.ReshapeHealthScience2017.com)**

### Accreditation

An application has been made for Continuing Medical Education (CME) accreditation of this event by Avec to the following institutions:

- **European Accreditation Council for Continuing Medical Education (EACCME)**
- **Italian Accreditation for Continuing Medical Education (ECM)**

### **Continuing Medical Education (CME) Credits**

Each participant should claim only those hours of credit that have actually been spent in the educational activity (EACCME).

### **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, June 29<sup>th</sup>:** 09.00 a.m. – 06.25 p.m.

**Friday, June 30<sup>th</sup>:** 07.30 a.m. – 06.30 p.m.

### **Lunch and coffee breaks**

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

### **Abstract book**

Participants will receive the Abstract book at the Conference.

### **Attendance certificate**

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



## FACULTY LIST

### **AIUTI Alessandro**

Unità TIGET, Istituto San Raffaele  
Telethon per la Terapia Genica  
**Milan** (Italy)

### **BLUMBERG Richard S.**

Brigham and Women's Hospital  
Harvard Medical School  
**Boston** (United States)

### **BONDANZA Attilio**

San Raffaele University Hospital  
and Scientific Institute  
**Milan** (Italy)

### **CHERVONSKY Alexander V.**

Department of Pathology  
The University of Chicago  
**Chicago** (United States)

### **CINGOLANI Roberto**

Istituto Italiano di Tecnologia  
**Genoa** (Italy)

### **DELLEDONNE Massimo**

Department of Biotechnology  
University of Verona  
Personal Genomics srl  
**Verona** (Italy)

### **FITZGERALD Garrett**

University of Pennsylvania  
**Philadelphia** (United States)

### **FRASSONI Francesco**

Istituto Giannina Gaslini  
**Genoa** (Italy)

### **GREEN Tony**

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

### **IZPISUA BELMONTE Juan Carlos**

The Salk Institute for Biological Studies  
Gene Expression Laboratory  
**La Jolla - CA** (United States)

### **LI Mo**

King Abdullah University of Science  
and Technology  
**Kaust** (Kingdom of Saudi Arabia)

### **LOVELL-BADGE Robin**

The Francis Crick Institute  
**London** (United Kingdom)

### **MARSHALL Lynley Vanessa**

The Royal Marsden  
NHS Foundation Trust  
**London** (United Kingdom)

### **MARTINI Alberto**

Istituto Giannina Gaslini  
**Genoa** (Italy)

**MELAZZINI Mario**

AIFA - Agenzia Italiana del Farmaco  
**Rome** (Italy)

**PEZZOTTI Mario**

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

**PIANA Michele**

Department of Mathematics  
University of Genoa  
**Genoa** (Italy)

**REMUZZI Giuseppe**

Department of Biomedical and Clinical  
Sciences - University of Milan  
IRCCS Mario Negri institute for  
pharmacological research - Bergamo  
**Bergamo** (Italy)

**SADELAIN Michel**

Sloan-Kettering Institute  
Memorial Sloan-Kettering Cancer  
**New York** (United States)

**SCITA Giorgio**

IFOM Institute FIRC of Molecular  
Oncology  
**Milan** (Italy)

**SHARPE Rowena**

Cancer Research UK  
**London** (United Kingdom)

**SHLUSH Liran**

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

**SUPERTI FURGA Andrea**

Lausanne University Hospital  
**Lausanne** (Switzerland)

**VERRI Alessandro**

University of Genoa  
**Genoa** (Italy)

**VICECONTI Marco**

Department of Mechanical Engineering  
University of Sheffield  
**Sheffield** (United Kingdom)

**WIKMAN Harriet**

Institute of Tumour Biology  
University Hospital Hamburg-Eppendorf  
**Hamburg** (Germany)

# REGISTRATION FORM

## THE FUTURE OF MEDICINE STARTS NOW

How Science and New Technology are reshaping Health Science

Genova (Italy), June 29<sup>th</sup>-30<sup>th</sup>, 2017

Promoted by



FONDAZIONE  
INTERNAZIONALE  
MENARINI

Physician

Postgraduate

Surname		Name	
Title		Professional Area	
Institution			
Address			
City		Postcode	Country
Telephone		Mobile	Fax
E-mail			

**No registration fee is required to attend the conference.**

**Please return the registration form to:**

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

Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza - Edificio 9 - Ufficio 14

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Tel: +39 0362 581579 - Fax: +39 0362 1860074

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

Date	Signature
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## RE: INFORMATIVE NOTE PURSUANT TO ART. 13 OF LEGISLATIVE DECREE 196/2003

Dear Client, this is to inform you that the processing of your personal data will be carried out in our company in full compliance with Law /2003. As established by this law, the processing will be based on the principles of correctness, lawfulness and transparency in order to protect your confidentiality and rights.

- 1) Pursuant to art. 13 we inform you that the data collected will be used for the following purposes:
  - a. Organization of events, travel incentives, congresses and conventions; performance of bureaucratic procedures, reservation of tickets for transport, hotels, tourist services; organisational logistics, etc., and/or performance of accreditation procedures (ECM);
  - b. Taxation and accounting obligations;
  - c. Operational and managerial requirements;
  - d. Possible forwarding of informative and promotional material relating to our sector in printed form or electronically.

2) For data required to fulfil obligations envisaged by law, regulations and Community legislation or provisions issued by legally empowered authorities and vigilance and control bodies, and to perform our business activities and fulfil our accounting, taxation and corporate organisational obligations, we are not required to obtain your consent and failure to provide such data will make it impossible to continue the relationship to the extent that said data are necessary for performance of the same.

The purchase of products and services marketed by AVEC SRL enables the latter to forward informative, advertising and promotional material relating to its sector of expertise in compliance with the methods indicated in point 1/d), pursuant to art. 130 subsection 4 of Legislative Decree 196/2003 and point 6 of the provision 'Simplification of certain requirements in the public and private domain concerning data processing for administrative and accounting purposes' - 19 June 2008 GazzettaUfficiale (Official Bulletin) no. 152 dated 1 July 2008. Should you decide to object to the processing operations for commercial purposes, said refusal/objection will not have any consequences of any kind. The providing of personal data in order to receive advertising and informative material relating to our area of expertise either in printed form or electronically is entirely optional. Should you decide to object to the processing operations for commercial purposes, said refusal/objection will not have any consequences of any kind.

3) The personal data are processed by the persons in charge who are assigned to said processing in order to ensure correct fulfilment of the purposes indicated in point 1) via electronic instruments and printed files, also via use of safety measures aimed at guaranteeing the confidentiality of the personal data and preventing undue access by unauthorised subjects. Said data will not be subject to disclosure.

Data may be disclosed to the following subjects in their capacity as autonomous data processing controllers and/or in charge of external processing:

- accountants for bookkeeping and taxation obligations;
- attorneys for legal assistance for contractual purposes and management of litigation;
- entities/companies which collaborate with our company in the various sectors, for reasons strictly connected to the purposes set forth in point 1;
- banks and credit institutions.

You may contact the processing controller and persons in charge in order to exercise your rights as set forth in article 7 of Legislative Decree no. 196/2003, that is, the confirmation of the existence or otherwise of the data concerning you, the erasure, anonymization and blocking of data that has been processed unlawfully, the updating, rectifying or integrating of data, certification to the effect that the operations have been notified to the entities to whom or which said data were communicated or disseminated. The right to object to the processing of personal data for the commercial purposes set forth in point 1 d), where it is carried out via automated contact means, shall also be extended to traditional means without prejudice to the possibility for the interested party to exercise this right in part, pursuant to art. 7, subsection 4, letter b), of the Code, that is, by only objecting for example to the sending of promotional communications with the help of automated means. All requests may be forwarded by email to: [info@avec-eventi.com](mailto:info@avec-eventi.com) by phone to: 0362/ 581579, or by fax to 0362/1860074.

4) The data controller is: **AVEC SRL Via Lavoratori, Autobianchi, 1 - Lotto 9/Uff.14 - 20832 Desio (MB)**

5) The person in charge of the processing is: **Volpe Angela**

The purchase of products and services marketed by AVEC SRL enables the latter to forward informative, advertising and promotional material relating to its sector of expertise, as set forth in point 1 d), by email or in printed form and also by means of automated systems, pursuant to point 6 provision 'Simplification of certain requirements in the public and private domain concerning data processing for administrative and accounting purposes' - 19 June 2008 GazzettaUfficiale (Official Bulletin) no. 152 dated 1 July 2008.

**If you do not wish to receive such material mark a cross in the box alongside and send this informative note back to us by email or fax duly signed and stamped.** The interested party's right to object to the processing of personal data for the commercial purposes set forth in point 1 d), where it is carried out via automated contact means, shall also be extended to traditional means without prejudice to the possibility for the interested party to exercise this right in part, pursuant to art. 7, subsection 4, letter b), of the Code, that is, for example by only objecting to the sending of promotional communications with the help of automated means. Therefore, in the case of any objections, we invite you to specify in detail', whether you intend to totally object to the purposes in 1/e, or only to some of the methods (e.g. objection to sending by fax or email etc.). In case of a general objection then you will not be contacted personally, telephonically or by email in relation to the promotional activities and initiatives proposed by the company.

I have read the above data protection notice and I agree with its terms.

Date:\_\_\_\_\_

Signature for acceptance\_\_\_\_\_



**Fondazione Internazionale Menarini**  
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