

June
29th-30th
2017

GENOVA
(ITALY)



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FONDAZIONE
INTERNAZIONALE
MENARINI

THE FUTURE OF MEDICINE STARTS NOW

How Science and New Technology
are reshaping Health Science

June
30th

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
 - 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*

PROGRAMME

June
29th

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 Neoplasia
- 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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- 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*
- 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*

ORGANISED BY:
ISTITUTO GIANNINA GASLINI

MEETING VENUE
PALAZZO DELLA MERIDIANA
Salita San Francesco, 4
16124 – Genoa (Italy)

PRESIDENTS OF THE MEETING
Francesco Frassoni
Alberto Martini

PROMOTED 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
Http://www.fondazione-menarini.it

ORGANISING SECRETARIAT
AND CME PROVIDER

AVEC S.r.l. - Incentive Paintings
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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
angela.volpe@avec-eventi.com

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