THE FUTURE OF MEDICINE STARTS NOW 2019
(2nd edition)
Venue: Porto Antico di Genova - Centro Congressi Genoa
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 (2nd 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

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
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 – info@avec-eventi.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.15 a.m.</td>
<td>Welcome coffee</td>
<td></td>
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<tr>
<td>10.30 a.m.</td>
<td>Welcome Address</td>
<td><strong>P. Petralia</strong> (Genoa, IT)</td>
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<tr>
<td></td>
<td></td>
<td>General Manager Giannina Gaslini Scientific Institute of Genoa</td>
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<tr>
<td>10.30 a.m.</td>
<td></td>
<td><strong>S. Viale</strong> (Genoa, IT)</td>
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<tr>
<td></td>
<td></td>
<td>Vice President, Assessor for Health, Social Policies, Immigration and Emigration, Security - Liguria Region</td>
</tr>
<tr>
<td>10.45 a.m.</td>
<td><strong>Introduction</strong></td>
<td><strong>F. Frassoni</strong> (Genoa, IT), <strong>A. Martini</strong> (Genoa, IT)</td>
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<tr>
<td>10.45 a.m.</td>
<td></td>
<td><strong>L. Luzzatto</strong> (Dar es Salaam, TZ)</td>
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<tr>
<td>11.15 a.m.</td>
<td>Changing Scenarios in Medicine</td>
<td></td>
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<tr>
<td><strong>SESSION I - NEW PERSPECTIVES IN MEDICINE</strong></td>
<td></td>
<td></td>
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<tr>
<td>Chairpersons</td>
<td><strong>P. Pronzato</strong> (Genoa, IT), <strong>G. Sambuceti</strong> (Genoa, IT)</td>
<td></td>
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<tr>
<td>11.15 a.m.</td>
<td>Genome Sequencing Technology Assessment</td>
<td><strong>M. Delledonne</strong> (Verona, IT)</td>
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<tr>
<td>11.45 a.m.</td>
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<tr>
<td>11.45 a.m.</td>
<td>Precision Medicine: the Project at NHS</td>
<td><strong>R. Sharpe</strong> (London, UK)</td>
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<tr>
<td>12.15 p.m.</td>
<td>JAK/STAT signalling, stem cell subversion and human clonal dynamics</td>
<td><strong>T. Green</strong> (Cambridge, UK)</td>
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<tr>
<td>12.45 p.m.</td>
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<tr>
<td>12.45 p.m.</td>
<td>Identifying individual at risk of developing AML years before the onset of the disease</td>
<td><strong>L. Shlush</strong> (Toronto, CA)</td>
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<tr>
<td>01.15 p.m.</td>
<td>Lunch</td>
<td></td>
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<tr>
<td>02.15 p.m.</td>
<td>Changes in glucose metabolism define aging</td>
<td><strong>S. Ravera</strong> (Genoa, IT)</td>
</tr>
<tr>
<td>02.45 p.m.</td>
<td>Changes in glucose metabolism define aging</td>
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<tr>
<td>03.15 p.m.</td>
<td>CAR T Cell</td>
<td><strong>M. O’Reilly</strong> (Dublin, IE)</td>
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<tr>
<td>03.15 p.m.</td>
<td>The future of gene therapy</td>
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<td>03.45 p.m.</td>
<td></td>
<td><strong>M. P. Cicala</strong> (Milan, IT)</td>
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<tr>
<td>03.45 p.m.</td>
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<tr>
<td>04.15 p.m.</td>
<td>Coffee Break</td>
<td></td>
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<tr>
<td><strong>Round Table: How to organize a Life Sciences Research Institute</strong></td>
<td><strong>F. Frassoni</strong> (Genoa, IT), <strong>A. Martini</strong> (Genoa, IT)</td>
<td></td>
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<tr>
<td>04.15 p.m.</td>
<td></td>
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<tr>
<td>06.15 p.m.</td>
<td>Round Table: How to organize a Life Sciences Research Institute</td>
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</tbody>
</table>
**Friday, September 27th, 2019**

**SESSION II - INFLAMMATION - PART 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00 a.m.</td>
<td>M. Netea (Nijmegen, NL)</td>
<td>Inflammation and metabolic disease</td>
</tr>
<tr>
<td>11.30 a.m.</td>
<td>C. Garlanda (Milan, IT)</td>
<td>The IL-1 family</td>
</tr>
<tr>
<td>12.00 p.m.</td>
<td>S. Gordon (Oxford, UK)</td>
<td>Macrophages as orchestrators of homeostasis and inflammation</td>
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<td>across diseases</td>
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<tr>
<td>12.30 p.m.</td>
<td>M. Perretti (London, UK)</td>
<td>Resolution of inflammation</td>
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<tr>
<td>01.00 p.m.</td>
<td></td>
<td>Lunch</td>
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</tbody>
</table>

**SESSION III - REJUVENATION AND BIG DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>02.00 p.m.</td>
<td>J. C. Izpisua Belmonte (La Jolla, CA)</td>
<td>Keynote Lecture: Aging and Organ Regeneration</td>
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<tr>
<td>03.00 p.m.</td>
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<td>Coffee Break</td>
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</tbody>
</table>
## Friday, September 27th, 2019

### Session IV - Inflammation - Part 2

**Chairpersons:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>03.30 p.m.</td>
<td>P. Allavena (Milan, IT)</td>
<td>Inflammation and cancer</td>
</tr>
<tr>
<td>04.00 p.m.</td>
<td>M. Matteoli (Milan, IT)</td>
<td>Inflammation and the nervous system</td>
</tr>
<tr>
<td>04.30 p.m.</td>
<td>M. Cutolo (Genoa, IT)</td>
<td>Inflammation and rheumatoid arthritis</td>
</tr>
<tr>
<td>05.00 p.m.</td>
<td>M. Gattorno (Genoa, IT)</td>
<td>Autoinflammatory diseases</td>
</tr>
<tr>
<td>05.30 p.m.</td>
<td></td>
<td>Conclusions</td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

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

REGISTRATION HOURS
Thursday, September 26th: 09.15 a.m. – 06.15 p.m.
Friday, September 27th: 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 186074
E-mail: 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 26th: 09.15 a.m. – 06.15 p.m.
Friday, September 27th: 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.
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)
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
St. Luke’s Centre
St. James’s Hospital
Dublin (Ireland)

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
Weizmann Institute of Science
Department of Immunology
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)