Aim and objectives
The conference aims to update participants on innovative microscopic equipment which, by correlating the various features of optical and electron microscopy, can maximize the potential applications of morphological and ultrastructural methods. The conference will address the limits of sample preparation, the optimization of image processing, and the critical analysis of experimental results with different materials.

SPEAKERS AND CHAIRPERSONS
Cristiano Albonetti | National Research Council - ISMN, Bologna, Italy
Roberto Balboni | National Research Council - IMM, Bologna, Italy
Edoardo Barresi | University “Rome III”, Rome, Italy
Lucas Borrione | National Institute of Membrane Research, Turin, Italy
Annarica Calcabrini | Istituto Superiore di Sanità, Rome, Italy
Katia Caruso | University of Genoa, Italy
Marco Ceresoli | Istituto Superiore di Sanità, Rome, Italy
Albino Dangaio | Italian Institute of Technology, Genoa, Italy
Elisabetta Falcaro | University of Urbino, Italy
Manca Francolli | University of Milan, Italy
Marco Genini | Italian Institute of Technology, Pisa, Italy
Bruno M. Hanuel | University of Lusanne, Switzerland
Lars-Oliver Kautzsch | Zeiss, Oberkochen, Germany
Emine Korkmaz | Fei-Thermo Fisher, Eindhoven, The Netherlands
Marco Crescenzi | Istituto Superiore di Sanità, Rome, Italy
Alberto Diaspro | Italian Institute of Technology, Genoa, Italy
Elisabetta Falcieri | University of Urbino, Italy
Marco Gemini | Italian Institute of Technology, Pisa, Italy
Bruno M. Hanuel | University of Lusanne, Switzerland
Emine Korkmaz | Fei-Thermo Fisher, Eindhoven, The Netherlands
Vincenzo Kostal | Tescan, Bres, Czech Republic
Frederic Leroux | Leica Microsystems, Germany
Alberto Lutini | National Research Council, Naples, Italy
Manuela Malatesta | University of Verona, Italy
Alessandro Marvelli | Institute of Molecular Oncology, Milan, Italy
Agnese Malvaglio | Istituto Superiore di Sanità, Rome, Italy
Annelie Montone | Research Centre ENEA, Rome, Italy
Ria Onnerfjeld | Phatom-world, The Netherlands
Romano Polidoro | Telethon Institute of Genetics and Medicine, Naples, Italy
André Varoudou | Joel, London, United Kingdom
Annarita Stringaro | Istituto Superiore di Sanità, Rome, Italy
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GENERAL INFORMATION
Venue: Istituto Superiore di Sanità, Aula Bovet, Viale Regina Elena 299 - 00161 Rome, Italy
Target audience: biologists, medical doctors, physicists, engineers, researchers and technicians.
Maximum number of participants: 90
ECM credits: NO

Stampato in proprio: Attività Editoriali CCS - ISS, Novembre 2017
Programme

Monday, November 6th

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08.30</td>
<td>Registration</td>
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<td>09.00</td>
<td>Opening Ceremony&lt;br&gt;Prof. Walter Ricciardi, ISS President&lt;br&gt;Dr. Patrizia Popoli, Director of National Center for Drug Research and Evaluation&lt;br&gt;Prof. Elisabetta Falcieri, SISM President&lt;br&gt;Dr. Stefania Meschini, ISS Scientific Coordinator of the event</td>
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I SESSION

09.30 Correlative microscopy: principles and application potential<br>Chairs: Marco Vittori, Elisabetta Falcieri

09.30 Keynote Lecture<br>Correlative light and electron microscopy in biology<br>Bruno M. Humbel

10.00 Applications for 3D characterization in the life sciences. Illumination correlative research using light, X-ray, and electron microscopy<br>Lars-Oliver Kautschuk

10.20 Correlative imaging workflows across scales: a powerful approach for cell and tissue studies<br>Emine Korkmaz

10.40 Coffee break

11.10 Investigating cancer cell behaviour using correlative imaging by holographic microscopy and FIB-SEM tomography<br>Witold Kostal

11.30 The integrated CLEM desktop microscope for easy and fast correlative imaging<br>Ria Oosterveld

11.50 New solutions for correlative microscopy<br>Andy Yarwood

12.10 Preparation workflows for correlation microscopy<br>Frederic Leroux

12.30 Lunch

II SESSION

13.30 Correlative microscopy applications in materials sciences<br>Chairs: Amelia Montone, Roberto Balboni

13.30 Keynote Lecture<br>Correlative Microscopy as a powerful tool for coupling structural compositional and functional properties<br>Edoardo Bemporad

14.00 A case study of correlative approach to 3D microscopy: the silicon nanowires<br>Luca Boarino

14.30 Curvature driven nanoparticles decoration of graphene membranes<br>Cristiano Albini

15.30 Evaluation of antimycotic activity of zinc oxide nanoparticles by correlative microscopy<br>Daniela Uccelletti

16.00 Selected Talks

16.50 Discussion

Tuesday, November 7th

I SESSION

09.00 Correlative microscopy applications in life sciences<br>Chairs: Agnese Molinari, Marco Crescenzi

09.00 Keynote Lecture<br>Correlative microscopy in biomedicine: from the slow beginning decades ago to the rapidly expanding leading edge of today<br>Alberto Luini

09.30 Correlative electron microscopy in modern bio-medical research<br>Roman Pobishek

10.00 Compatibility of correlative light and electron microscopy with three-dimensional and quantitative analysis in biology<br>Alexandre A. Mironov

10.30 Correlative X-ray micro tomography and TEM microscopy on biological samples for the study of complex pathologies<br>Mauro Gemmi

11.00 Coffee break

II SESSION

11.30 Correlative microscopy applications in life sciences<br>Chairs: Annarica Calcabrini, Annarita Stringaro

11.30 Keynote Lecture<br>The extraordinary microscope: multimodal and correlative approaches in nanomedicine<br>Alberto Diaspro

12.00 3D HDO-CLEM: cellular compartment analysis by correlative light-electron microscopy on cryosections<br>Katia Cortese

12.30 Lunch

13.30 New tools and protocols for correlative microscopy application to biomedical research<br>Maura Francolini

13.00 Lunch

14.00 Visualizing fluorochrome-labelled nanoparticles and fluorescent free molecules at transmission electron microscopy by diaminobenzidine photo-oxidation<br>Manuela Malatesta

14.30 Selected Talks

15.30 Discussion and Closing Remarks