PROGRAM

Tuesday 4\textsuperscript{th} October 2022 – Day 1

08.00  Bus departure from city centre

08.30  \textit{Course Registration}\n       ICGEB Foyer, ‘W’ Building

\textbf{Morning sessions - Seminar room ‘W’ Building}

09.15  Welcome address\n       \textbf{Alessandro Marcello}, ICGEB Trieste, Italy

09.30  Fluorescence Microscopy: from basic principles to instrumental options\n       \textbf{Gabriele Baj}, University of Trieste, Italy

10.30  \textit{Coffee break}

11.00  Setup and technology of a confocal microscope\n       \textbf{Alessandro Cometta}, Zeiss, Milan, Italy

12.00  Optimization of specimens for fluorescence microscopy\n       \textbf{Michaela Grandolfo}, SISSA, Trieste, Italy

13.00  \textit{Group photo}\n       \textit{Lunch at Cafeteria, Ground Floor, ‘C’ Building}

\textbf{Afternoon practical sessions}

14.30  practical session I\n       (stations 1, 2, 3 & 4)

16.45  practical session II\n       (stations 1, 2, 3 & 4)

19.00  \textit{Wine & Cheese at ICGEB Lobby}
### Wednesday 5th October 2022 - Day 2

**Morning sessions – Seminar room 'W' Building**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>09.00</td>
<td>High-throughput imaging</td>
<td><strong>Gianluca Pegoraro</strong>, NIH, Bethesda, MD, USA</td>
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<td>10.00</td>
<td>Sponsored Technology: Super-resolution optical imaging using a microsphere-based objective lens</td>
<td><strong>Francesco Valente</strong>, Lig NanoWise</td>
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<td>11.00</td>
<td>Coffee break</td>
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<tr>
<td>11.30</td>
<td>Acquisition and processing of images</td>
<td><strong>Davide Mazza</strong>, San Raffaele, Milan, Italy</td>
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<td>12.30</td>
<td>Cutting-edge Technology: Making virtues out of necessity: an Innovative assay for drug repurposing screenings against SARS-CoV-2 infection</td>
<td><strong>Luca Braga</strong>, ICGEB Trieste, Italy</td>
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**Lunch at Cafeteria, Ground Floor, ‘C’ Building**

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<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>13.30</td>
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**Afternoon practical sessions**

<table>
<thead>
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<tbody>
<tr>
<td>14.30</td>
<td>practical session I</td>
<td>(stations 1, 2, 3 &amp; 4)</td>
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<tr>
<td>16.45</td>
<td>practical session II</td>
<td>(stations 1, 2, 3 &amp; 4)</td>
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<td>20.00</td>
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<td>Happy hour sponsored by Zeiss</td>
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### Thursday 6th October 2022 - Day 3

**Morning sessions - Seminar room ‘W' Building**

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<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>09.00</td>
<td>Cutting-edge Technology: Correlative light-electron microscopy (CLEM) in modern bio-medical research</td>
<td><strong>Roman Polishchuk</strong>, TIGEM, Naples, Italy</td>
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<td>10.00</td>
<td>Cutting-edge Technology: Advanced microscopy technologies to study positive-strand RNA viruses</td>
<td><strong>Mirko Cortese</strong>, TIGEM, Naples, Italy</td>
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<td>11.00</td>
<td>Coffee break</td>
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<tr>
<td>11.30</td>
<td>Cutting-edge Technology: Quantitative imaging for the study of nuclear organisation in space and time</td>
<td><strong>Paolo Maiuri</strong>, IFOM, Milan, Italy</td>
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<td>12:15</td>
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<td>Break</td>
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Peter Horvath, Institute of Biochemistry Biological Research Centre, Szeged, Hungary

13.15  Concluding remarks, attendance certificates

13.30  Lunch at Cafeteria, Ground Floor, ‘C’ Building

Afternoon to 17.00  Participants may visit the facility of microscopy at the University of Trieste that hosts:
- The Elyra 7 lattice SIM microscope (Zeiss) integrated with the GEMINi 300 SEM for correlative microscopy;
- The multiphoton A1R-MP (Nikon).

**Practical sessions:** participants will be divided in groups of maximum 10 members who will rotate between the four practical stations.

- **Station 1 (Room T44):** Confocal imaging – Zeiss LSM880 with Airyscan module  
  *Alessandro Cometta* and *Tea Carletti* (ICGEB Trieste, Italy)

- **Station 2 (Room T45):** Live Imaging – Nikon Eclipse Ti Inverted Microscope with Okolab stage incubator  
  *Nezka Kavcic* and *Andrea Colliva* (ICGEB Trieste, Italy)

- **Station 3 (Seminar Room):** High-throughput Screening - PerkinElmer Operetta high-content screening  
  *Luca Braga*, *Gianluca Pegoraro* and *Veronique Berchet* (Perkin Elmer)

- **Station 4 (Common Room):** Image processing and quantitative analysis – ImageJ/Fiji freeware  
  *Paolo Maiuri* and *Davide Mazza*

*In collaboration with*