EMBL Heidelberg • Meyerhofstraße 1 • 69117 Heidelberg • Germany

# Program - ISS Practical Course 2024

| Wednesday, 5th May | |
|---|---|
| 13:30 – 14:00 | Reception |
| 14:00 – 14:45 | Talk - Overview of spatial transcriptomics<br>*Sergio Espinola* |
| 14:45 – 15:45 | Talk - Introduction to *in situ* sequencing (ISS)<br>*Giriram Mohana* |
| 15:45 – 16:00 | Break |
| 16:00 – 17:00 | Wet lab (Giriram, Sergio, Sina)<br>Tissue fixation and permeabilization<br>PLP hybridization |

| Thursday, 6th May | |
|---|---|
| 9:30 – 10:30 | Wet lab (Giriram, Sergio, Sina)<br>PLP ligation |
| 10:30 – 11:30 | Participants (5) 10 min presentation |
| 11:30 – 11:45 | Break |
| 11:45 – 12:30 | Wet lab (Giriram, Sergio, Sina)<br>PLP rolling circle amplification (RCA) |
| 12:30 – 14:00 | Lunch break |
| 14:00 – 14:45 | Participants (5) 10 min presentation |
| 14:45 – 15:30 | Talk - Probe design for ISS<br>*Tobias Rausch (EMBL Heidelberg)* |
| 15:30 – 15:45 | Break |
| 15:45 – 16:30 | Talk - ISS applications (case studies)<br>*Basilia Acurzio (EMBL Rome)*<br>*Ines Boehm (Biozentrum, University of Basel)* |

| Friday, 7th May | |
|---|---|
| 9:30 – 10:30 | Wet lab (Giriram, Sergio, Sina)<br>Preparation/Incubation of Bridge probes |
| 10:30 – 10:45 | Break |
| 10:45 – 11:45 | Wet lab (Giriram, Sergio, Sina)<br>Preparation/Incubation of DOs probes |
| 11:45 – 13:00 | Lunch break |
| 13:00 – 16:00 | Wet lab (Giriram, Sergio, Sina)<br>Mounting, Imaging, Hybridization cycles |
| 16:00 – 16:30 | Concluding remarks |

*Talks will take place in Seminar Room 100 (Building 1, level 1)*

*Wet lab practical work will take place in Room V321 (Building 4, level 3)*