

AGENDA

NEW HORIZONS IN PRECISION MEDICAL IMAGING AND THERAPY

Tuesday, October 25, 2022

09:00am	Welcome	01:30 - 04:00pm	Session 2: Biomolecular and cellular ultrasound
09:30 - 12:00pm	Session 1: Technologies to study and engineer the microbiome	01:30pm	Prof. David Maresca, Delft University of Technology - <i>Sound sheet imaging of genetically encoded acoustic indicators</i>
09:30am	Prof. Mikhail Shapiro, Caltech - <i>Talking to cells: biomolecular ultrasound for noninvasive imaging and control of cellular function</i>	02:00pm	Prof. Mikael Tanter, Inserm, ESPCI Paris - <i>Ultrasound imaging in Neuroscience</i>
10:00am	Dr. Effie Bastounis, University of Tübingen - <i>Imaging and biomechanical approaches to unravel how human cells interact with bacterial pathogens</i>	02:30pm	Coffee break
10:30am	Coffee break	03:00pm	Tudor Ionescu, Boehringer Ingelheim - <i>Functional ultrasound in pharmacological research</i>
11:00am	Dr. James Marsh, MPI Tübingen - <i>Engineering the human gut microbiome</i>	03:30pm	Marjorie Buss, Caltech - <i>Ultrasound Imaging of Tumor-Homing and Intestinal Bacteria Using Acoustic Reporter Genes</i>
11:30am	Prof. Lisa Maier, University of Tübingen - <i>Dissecting the interactions between drugs and the human gut microbiota</i>	04:00pm	Panel discussion (Session 1 & 2)
12:00 - 01:30pm	Lunch Break	04:30pm	End

Wednesday, October 26, 2022

09:00 - 11:30am	Session 3: Cellular and molecular neuroimaging	01:00 - 03:30pm	Session 4: Imaging and control of cancer immunotherapy and immunodiagnostics
09:00am	Prof. Gil Westmeyer, TUM - <i>Genetically encoded indicators for revealing function-structure relationships in neuronal networks</i>	01:00pm	Prof. Leif Schröder, DKFZ Heidelberg - <i>Xenon MRI with in situ Assembly of Hyperpolarized Tracers: Perspectives for Emerging Therapy Approaches</i>
09:30am	Dr. Yi Chen, MPI Tübingen - <i>Detecting functional connectivity changes in a rat model of Alzheimer's disease</i>	01:30pm	Prof. André Martins, WSIC Tübingen - <i>Harnessing advanced imaging to assess cancer metabolism and physiology in vivo</i>
10:00am	Coffee break	02:00pm	Coffee break
10:30am	Prof. Kristina Herfert, WSIC Tübingen - <i>Simultaneous PET/fMRI to study whole brain function in rodent models</i>	02:30pm	Prof. Bettina Weigelin, WSIC Tübingen - <i>Multiscale microscopy for understanding systemic cancer immunotherapy</i>
11:00am	Michela Deleidi, DZNE Tübingen - <i>Dissecting genetic brain diseases at single cell resolution</i>	03:00pm	Dr. Christian Seitz, Uniklinik Tübingen - <i>Imaging Guided Precision Immunotherapy</i>
11:30am - 01:00pm	Lunch Break	03:30pm	Panel discussion (Session 3 & 4)
		04:00pm	Closing
		04:30pm	End of event

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