



## EMMI Intensive Programme "Optical Imaging" schedule

	Monday July 6	Tuesday July 7	Wednesday July 8	Thursday July 9	Friday July 10
<b>AM</b>	9:15 - 9:30 <b>Welcome</b> Sifis Papamatheakis 9:30 - 11:00 <b>Molecular Biology: current research</b> Giannis Chatzidakis  11:15 - 12:00 <b>Principles of Spectroscopy</b> Dimitrios Anglos	9:15 - 10:00 <b>Principles of Microscopy</b> Nektarios Tavernarakis 10:15 - 11:00 <b>Fluorescence and Confocal Microscopy</b> Nektarios Tavernarakis  11:15 - 12:00 <b>Electron Microscopy</b> Pantelis Trikalitis	9:15 - 10:00 <b>In Vivo Microscopy</b> Christos Delidakis 10:15 - 11:00 <b>Theory of light propagation</b> <i>Jorge Ripoll</i>  11:15 - 12:00 <b>Optical tomography principles</b> <i>Jorge Ripoll</i>	9:15 - 10:00 <b>Fluorescent Ion Probes</b> Haris Katerinopoulos 10:15 - 11:00 <b>Applications in Ion Probing using Fluorescence</b> Haris Katerinopoulos 11:15 - 12:00 <b>In vivo gene expression</b> Sifis Papamatheakis	9:15 - 10:00 <b>Non-linear imaging</b> <i>Marie PierreFontaine Aupart</i> 10:15 - 11:00 <b>Non-linear imaging</b> <i>Marie PierreFontaine Aupart</i>  11:15 - 12:00 <b>Non-linear imaging applications</b> George Filippidis
<b>PM</b>	13:30h -15h <b>Laboratory session</b> Spectroscopy 15h15 - 16h30 <b>Laboratory session</b> Spectroscopy	13:30h -15h <b>Laboratory session</b> Electron Microscopy 15h15 - 16h30 <b>Laboratory session</b> Electron Microscopy	13:30h -15h <b>Laboratory session</b> Microscopy 15h15 - 16h30 <b>Laboratory session</b> Microscopy	13:30h -15h <b>Laboratory session</b> Confocal Microscopy 15h15 - 16h30 <b>Laboratory session</b> Confocal Microscopy	13:30h -15h <b>Laboratory session</b> Non - linear Imaging 15h15 - 16h30 <b>Laboratory session</b> Non - linear Imaging
	Monday July 13	Tuesday July 14	Wednesday July 15	Thursday July 16	Friday July 17
<b>AM</b>	9:15 - 10:00 <b>Methodological and hardware issues of in vivo MRI and OI</b> Matthias Hohen 10:15 - 11:00 <b>2D and 3D whole body bioluminescence imaging and its applications</b> Clemens Loewik 11:15 - 12:00 <b>Optical and optoacoustic imaging of fluorescent proteins</b> Vasilis Ntziachristos	9:15 - 10:00 <b>Fluorescence Activated Cell Sorting</b> <i>Clio Mamelaki - Giannis Chatzidakis</i>  10:15 - 11:00 <b>Fluorescence Activated Cell Sorting</b> <i>Clio Mamelaki - Giannis Chatzidakis</i>  11:15 - 12:00 <b>Multimodal tomographic imaging</b> Vasilis Ntziachristos	9:15 - 10:00 <b>Fluorescence Tomography</b> Giannis Zacharakis  10:15 - 11:00 <b>Fluorescence Tomography</b> Giannis Zacharakis  11:15 - 12:00 <b>Molecular Imaging: from academia to industry</b> John Kleinje, Visen Medical	9:15 - 10:00 <b>Optical Projection Tomography</b> Udo Birk  10:15 - 11:00 <b>Optical Projection Tomography</b> Udo Birk  11:15 - 12:00 <b>A comparison between PET and Optical Imaging</b> Anikitos Garofalakis	9:15 - 12:00 <b>Final Student Assessment</b>  13:00 - 16:00 <b>Papers Discussion</b>
<b>PM</b>	13:30h -15h <b>Laboratory session</b> Fluorescence Tomography 15h15 - 16h30 <b>Laboratory session</b> Fluorescence Tomography	13:30h -15h <b>Laboratory session</b> FACS 15h15 - 16h30 <b>Laboratory session</b> FACS	13:30h -15h <b>Laboratory session</b> Optical Tomography 15h15 - 16h30 <b>Laboratory session</b> Optical Tomography	13:30h -15h <b>Laboratory session</b> Optical Tomography 15h15 - 16h30 <b>Laboratory session</b> Optical Tomography	