

DAILY SCHEDULE

Week of: August 26

	8/26 MONDAY	8/27 TUESDAY	8/28 WEDNESDAY	8/29 THURSDAY	8/30 FRIDAY	8/31 SATURDAY	9/1 SUNDAY
9:00 AM	Opening Introduction to School (Francisco F. de Miguel, Dilia Aguirre Olivas, IFC-UNAM)	Daily work review (Dilia Aguirre Olivas, IFC-UNAM)	Daily work review (Naser Qureshi, ICAT-UNAM)	Analysis of results (León Islas Suárez, FACMED-UNAM)	Daily work review (Pablo Loza Álvarez, ICFO)		
9:30 AM		Introduction (Carlos Treviño Palacios, ICAT-UNAM)	Introduction (León Islas Suárez, FACMED-UNAM)	Introduction (Pablo Loza Álvarez, ICFO)	Introduction (Yazmín Ramiro Cortés, IFC-UNAM)		
10:00 AM	How to build scientific career in Neuroscience (Diane Lipscombe, President of SfN)				Confocal Microscopy: from the light to the images (Ruth Rincón Heredia, IFC-UNAM)		
10:30 AM					Comparative work on electron-confocal and multiphoton microscopy (Yazmín Ramiro Cortés, Ruth Rincón Heredia y Abraham Rosas Arellano, IFC-UNAM)		
11:00 AM		Introduction to light and its properties (Dilia Aguirre Olivas, IFC-UNAM)	Lasers and terahertz (Naser Qureshi , Jesús Garduño Mejía, ICAT-UNAM)	Experiment on molecular energy transfer (León Islas Suárez, FACMED-UNAM), Transfection of animals for optogenetic experiments I (Fatuel Tecuapetla, IFC-UNAM)	Home-made light sheet microscope (Pablo Loza Alvarez, ICFO)		
11:30 AM							
12:00 PM	Microscopy with terahertz and millimeter waves (Naser Qureshi, ICAT-UNAM)	Estimating distances and interactions using energy transfer (FRET) (León Islas Suárez, FACMED-UNAM)	Light sheet fluorescence microscopy for fast volumetric, in-vivo imaging (Pablo Loza Álvarez, ICFO)	Application of OFDR in optical fibres for high precision catheter tracking in minimally invasive surgery (Raman Kashyap, Montreal Polytechnic)	From resolution to superresolution: STED nanoscopy (Dilia Aguirre Olivas, IFC-UNAM)		
1:00 PM							
1:30 PM							
2:00 PM							
2:30 PM							
3:00 PM							
3:30 PM							
4:00 PM							
4:30 PM							
5:00 PM	Discussion with Students (Diane Lipscombe, President of SfN)						
5:30 PM							

Cultural Tour through Mexico City

Day Off

DAILY SCHEDULE

Week of: September 2

	9/2 MONDAY	9/3 TUESDAY	9/4 WEDNESDAY	9/5 THURSDAY	9/6 FRIDAY	9/7 SATURDAY	9/8 SUNDAY
9:00 AM			Daily Work Review (Yazmín Ramiro Cortés, IFC-UNAM)	Daily Work Review (Samuel Montero, INAOE)	Daily Work Review (Maria Angela Franceschini, MGH/HST)		
9:30 AM	Daily Work Review (Ruth Rincón Heredia, IFC-UNAM)	Daily Work Review (Abraham Rosas Arellano, IFC-UNAM)	Introduction to Infrared Optical Methods on Brain Activity (Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)	Infrared Optical Methods on Brain Activity (Maria Angela Franceschini-MGH/HST, Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)	Pulse detection by using infrared light (Bruno Méndez Ambrosio, IFC-UNAM)		
10:00 AM					Building a pulse detection device by using infrared light (Bruno Méndez Ambrosio, IFC-UNAM)		
10:30 AM	Electron Microscopy (Abraham Rosas Arellano, IFC-UNAM)	Two-photon Imagin (Yazmín Ramiro Cortés, IFC-UNAM)	Infrared Optical Methods on Brain Activity (Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)	Infrared Optical Methods on Brain Activity (Maria Angela Franceschini-MGH/HST, Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)			
11:00 AM					to be announce		
11:30 AM							
12:00 PM	From spines to behavior using two-photon microscopy: an approach to study autism (Yazmín Ramiro Cortés, IFC-UNAM)	Optical Oximetry (Carlos Gerardo Treviño Palacios, INAOE)	All-optical interrogation of brain activity in vivo (Weijian Yang, UC Davis)	Shedding light on the cell: Label-free microscopy and optical tweezers (Braulio Gutiérrez Medina, IPICYT)	Imaging brain activity with diffuse optics: opportunities and future directions (Maria Angela Franceschini, MGH/HST)	Excursion to Archeological Zone of Teotihuacan	Day Off
1:00 PM			Lunch Break				
1:30 PM							
2:00 PM							
2:30 PM							
3:00 PM							
3:30 PM	Comparative work on electron-confocal and multiphoton microscopy (Yazmín Ramiro Cortés, Ruth Rincón Heredia y Abraham Rosas Arellano, IFC-UNAM)	Comparative work on electron-confocal and multiphoton microscopy (Yazmín Ramiro Cortés, Ruth Rincón Heredia y Abraham Rosas Arellano, IFC-UNAM)	Infrared Optical Methods on Brain Activity (Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)	Infrared Optical Methods on Brain Activity (Maria Angela Franceschini-MGH/HST, Samuel Montero-NAOE, Felipe Orihuella-Espina- INAOE, Javier-BUAP)	Building a pulse detection device by using infrared light (Bruno Méndez Ambrosio, IFC-UNAM)		
4:00 PM							
4:30 PM							
5:00 PM							
5:30 PM							

DAILY SCHEDULE

Week of: September 9

	9/9 MONDAY	9/10 TUESDAY	9/11 WEDNESDAY	9/12 THURSDAY	9/13 FRIDAY	9/14 SATURDAY
9:00 AM	Daily Work Review (Bruno Méndez Ambrosio, IFC-UNAM)		Daily Work Review (Jesús Garduño Mejía, ICAT-UNAM)		Daily Work Review (Francisco Barrantes)	
9:30 AM	Introduction (Jesús Garduño Mejía, ICAT-UNAM)	Introduction (Jesús Garduño Mejía, ICAT-UNAM)	Introduction (Fatuel Tecuapetla, IFC-UNAM)	Conductual Tracking (Fatuel Tecuapetla, IFC-UNAM)	Introduction (Francisco F. de Miguel, IFC-UNAM)	
10:00 AM						
10:30 AM						
11:00 AM						
11:30 AM						
12:00 PM						
12:30 PM	Fluorescence-lifetime imaging microscopy (FLIM) (Jorge Peón, IQ-UNAM)	Optogenetic control of behaviors mediated by basal ganglia (Fatuel Tecuapetla, IFC-UNAM)	Somatic Release of Serotonin (Francisco F. de Miguel, IFC-UNAM)	Evaluation of tissue microstructure using diffusion-weighted MRI (Luis Concha Loyola, UNAM Campus Juriquilla)	Exploring the brain at the Nanoscale, in health and Disease (Francisco Barrantes, UCA)	
1:00 PM						
1:30 PM						
2:00 PM						
2:30 PM						
3:00 PM	Spectroscopy and Structured Light (Dilia Aguirre Olivas, IFC-UNAM)					
3:30 PM						
4:00 PM						
4:30 PM	Fluorescence Lifetime and FLIM Microscopy (Mario González Gutiérrez, IQ-UNAM)	Spectroscopy and Structured Light (Dilia Aguirre Olivas, IFC-UNAM)	Optogenetics Induction of Selective Behavior (Fatuel Tecuapetla, IFC-UNAM)	Science Education for Society (Francisco F. de Miguel, IFC-UNAM)	Demonstration of STED nanoscopy (Dilia Aguirre Olivas y Francisco F de Miguel, IFC-UNAM)	
5:00 PM						
5:30 PM					Introduction to Nanoscopies (Francisco Barrantes, UCA)	General Discussion
	IFC-UNAM , Institute of Cellular Physiology-National Autonomous University of Mexico. UNAM Campus Juriquilla	INAOE , National Institute of Astrophysics, Optics and Electronics	Montreal Polytechnic , Department of Electrical Engineering and Department of Engineering Physics. Montreal, Canada	UC Davis , University of California, Electrical and Computer Engineering		
	SfN , Society of Neuroscience, EUA	BUAP , Benemérita Universidad Autónoma de Puebla	ICFO , The Institute of Photonics Sciences. Barcelona, Spain.	IPICYT , Instituto Potosino de Investigación Científica y Tecnológica A.C.		
	ICAT-UNAM , Institute of Applied Sciences and Technology-National Autonomous University of Mexico	FACMED-UNAM , School of Medicine, Cellular and Molecular Biophysics, National Autonomous University of Mexico	MGH/HST , Harvard Medical School, Massachusetts General Hospital Athinoula A. Martinos Center for Biomedical Imaging	IQ-UNAM , Chemistry Institute-National Autonomous University of Mexico. UCA , Pontifical Catholic University of Argentina		Dinner

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