



Cold Spring Harbor Laboratory

MEETINGS & COURSES PROGRAM

Advanced Techniques in Molecular Neuroscience

July 1 – 16, 2022

Beckman Laboratory (Middle Floor)

INSTRUCTORS:

Cary Lai
Joseph LoTurco
Anne Schaefer

Indiana University, Bloomington IN
University of Connecticut, Storrs CT
Icahn School of Medicine at Mount Sinai, New York NY

ASSISTANTS:

Alexandria Battison
Nathaniel Lin
Jung Hyun Park
Grace Shariat Panahi
Hayley Strasburger

University of Connecticut, Storrs CT
Indiana University, Bloomington IN
Indiana University, Bloomington IN
Indiana University, Bloomington IN
Icahn School of Medicine at Mount Sinai, New York City NY

PARTICIPANTS:

Camila Arcuschin
Taylor Brown
Cristine Casingal
Katarzyna Anna Dudek
Oakleigh Folkes
Anuradha Korukonda
Olena Kuksenko
Daniel Lee
Kevin Lei
Thomas Li
Paige Miranda
Rhea Misra
Thomas Turner
Trisha Vaidyanathan
Danielle van de Lisdonk
Baovi Vo

IFIBYNE (CONICET - UBA), CABA, Argentina
University of Minnesota, Minneapolis MN
University of North Carolina at Chapel Hill, Chapel Hill NC
Laval University/CERVO Brain Research Centre, Quebec, Canada
Yale University, New Haven CT
Emory University, Atlanta GA
Columbia University/New York Genome Center, New York NY
University of Kentucky, Lexington KY
Baylor college of medicine, HOUSTON TX
UC Berkeley, Berkeley CA
New York University, New York NY
University of California, San Francisco, San Francisco CA
UCL Institute of Neurology, London, United Kingdom
Duke University, Durham NC
Cold Spring Harbor Laboratory, Cold Spring Harbor NY
MIT, Cambridge MA



**Advanced Techniques in
Molecular Neuroscience**
July 1 to 15, 2022
Beckman Laboratory (Middle Floor)

Friday, July 01, 2022

9:30 am	Lecture and Protocol Review: CRISPR and gRNA Design and Synthesis	<i>Joe LoTurco</i>
1:30 pm	Lecture and Protocol Review: <i>Proximity Labeling Proteomics</i>	<i>Alix Battison</i>

Saturday, July 02, 2022

9:00 am	Lecture and Protocol Review: BAC Recombineering	<i>Cary Lai</i>
1:00 pm	Viral Tools for Neurobiology	<i>Michael Williams</i>
4:00 pm	Special Lecture	<i>Bob Darnell</i>

Sunday, July 03, 2022

9:00 am	Approaches in Neuronal Xenografting and Genetic Modification	<i>Daniel Vogt</i>
7:00 pm	<i>Special Lecture</i>	<i>Paul Kenny</i>

Monday, July 04, 2022

9:00am	RAS/MAPK mutations converge on common GABAergic neuron programs	<i>Daniel Vogt, Distinct</i>
1:30 am	Kit Ligand & Kit Receptor in Cerebellar Synapse Formation	<i>Michael Williams</i>

Tuesday, July 05, 2022

1:30 pm	Special Lecture	<i>Tony Zador (CSHL)</i>
7:00 pm	Special Lecture	<i>Debby Silver (Duke)</i>

Wednesday, July 06, 2022

1:30 pm	Special Lecture	<i>Linda Van Aeist (CSHL) Chandelier Cells</i>
---------	-----------------	--

Thursday, July 07, 2022



9:00am	New Developments in confocal imaging	<i>Kelly Sakaki (Scientifica)</i>
10:00 am	Brain slice preps and live imaging and Preparation for making purified cultures	
7:00 pm	<i>Special Lecture</i>	<i>Jim Eberwine</i>

Saturday, July 09, 2022

7:00 pm	<i>Special Lecture</i>	<i>Tom Nowakowski (UCSF) Remote</i>
---------	------------------------	---

Sunday, July 10, 2022

7:00 pm	<i>Special Lecture</i>	<i>Dori Schaefer (UMass Med)</i>
---------	------------------------	--------------------------------------

Monday, July 11, 2022

9:00 am	Lecture and Protocol review: Jessica Tolkuhn and Bruno Gegenhuber	<i>Schaefer lab Yajing</i>
7:00 pm	Lecture and Module Overview Single cell electroporation and in vivo imaging.	<i>Kurt Haas</i>

Tuesday, July 12, 2022

9:00am	Lecture and Module Overview	<i>Shaefer</i>
1:30 pm	Lecture and Protocol review: TRAP review	<i>Pinar Ayata</i>
7:00 pm	<i>Special Lecture</i>	<i>Cagla Eroglu (Duke) Mixer with Drosophila Course.</i>

Wednesday, July 13, 2022

9:00 am	Lecture and Protocol Review	<i>Eric Schmidt</i>
1:30 pm	Lecture and Protocol review	<i>Pinar Ayata</i>



Cold Spring Harbor Laboratory
MEETINGS & COURSES PROGRAM

Thursday, July 14, 2022

9:00am	Protocol review: TRAP	<i>Pinar Ayata</i>
10:00 am	TRAP	
1:30 pm	Protocol Review: TRAP	<i>Pinar Ayata</i>
7:00 pm	<i>Special Lecture</i>	<i>Anne Schaefer.</i>

Friday, July 15, 2022

9:00 am	Protocol review Q&A	<i>Eric Schmidt</i>
7:00 pm	<i>Course Banquet and Party</i>	.