

# Caltech/UCLA Joint NIH Symposium

September 21, 2023  
Annenberg Building #105 at Caltech, Pasadena

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Time	Event - Presentation
8:20 - 8:40 am	Introduction and Refreshments ( <a href="https://caltechuclabioengineering.org">https://caltechuclabioengineering.org</a> )
8:40 - 10:20 am	<p><b>Lihong Wang, PhD</b> <b>Professor of Medical Engineering and Electrical Engineering, Caltech</b> <b>Andrew and Peggy Cherng Medical Engineering Leadership Chair; Executive Officer for Medical Engineering</b> (<a href="http://coilab.caltech.edu">http://coilab.caltech.edu</a>) Topic: Photoacoustic, Light-Speed, and Quantum Imaging Moderator: Enbo Zhu (UCLA)</p> <p><b>Rui Cao, PhD</b> <b>Postdoc of Medical Engineering, Caltech</b> <b>T32 scholar, Mentor: Lihong Wang</b> Topic: From T32 Training to K99: My Research and Highlights from the NIBIB 2023 TGM Moderator: Enbo Zhu (UCLA)</p> <p><b>Elham Davoodi, PhD</b> <b>Postdoc of Medical Engineering, Caltech</b> <b>T32 scholar, Mentor: Wei Gao</b> Topic: Additive Manufacturing and Biomaterial Design for Healthcare Applications Moderator: Ellen O'Connor (UCLA)</p> <p><b>Leslie Sedgeman R, PhD</b> <b>Scientist, Nuanced Health</b> <b>T32 scholar, Mentor: Elizabeth Tarling</b> Topic: From Academia to Biotech: My career journey in science Moderator: Elle O'Connor (UCLA)</p>
10:20 - 10:30 am	Break
10:30 - 11:45 am	<p><b>Jaimie Stewart, PhD</b> <b>Assistant Professor of Bioengineering, UCLA</b> (<a href="https://www.thestewartlab.com">https://www.thestewartlab.com</a>) Topic: Exploiting the molecular code of RNA for self-assembly, biological function, and applications Moderator: Rui Cao (Caltech)</p> <p><b>Jennifer Wilson, PhD</b> <b>Assistant Professor of Bioengineering, UCLA</b> (<a href="https://research.seas.ucla.edu/computational-systems-pharmacology/">https://research.seas.ucla.edu/computational-systems-pharmacology/</a>) Topic: Deriving network parameters for understanding drug effects Moderator: Thang Nguyen (UCLA)</p> <p><b>Azita Emami, PhD</b> <b>Professor of Electrical Engineering and Medical Engineering, Caltech</b> <b>Executive Officer for Electrical Engineering; Director, Center for Sensing to Intelligence</b> (<a href="https://www.mics.caltech.edu">https://www.mics.caltech.edu</a>) Topic: Learning-Based Algorithms and Devices for Brain-Machine-Interfaces Moderator: Thang Nguyen (UCLA)</p>

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<b>11:45 - 12:45 pm</b>	Lunch
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<b>12:45 - 2:00 pm</b>	<p><b>Yu-Chong Tai, PhD</b>  <b>Anna L. Rosen Professor of Electrical Engineering and Medical Engineering, Caltech</b>  <a href="https://www.mems.caltech.edu">https://www.mems.caltech.edu</a>  Topic: MEMS biomedical devices for eye diseases  Moderator: Yujun Liu (UCLA)</p> <p><b>Rustem Ismagilov, PhD</b>  <b>Professor of Chemistry and Chemical Engineering, Caltech</b>  <b>Merkin Institute Professor; Director of the Jacobs Institute for Molecular Engineering for Medicine</b> (<a href="https://ismagilovlab.caltech.edu">https://ismagilovlab.caltech.edu</a>)  Topic: Quantifying host microbe interactions  Moderator: Yujun Liu (UCLA)</p> <p><b>Mireille Kamariza, PhD</b>  <b>Assistant Professor of Bioengineering, UCLA</b>  <a href="https://www.kamarizalab.com">https://www.kamarizalab.com</a>  Topic: Development of a drug susceptibility testing platform against Mycobacterium tuberculosis using solvatochromic probes  Moderator: Elham Davoodi (Caltech)</p>
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<b>2:00 - 2:10 pm</b>	Break
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<b>2:10 - 3:00 pm</b>	<p><b>Mikhail Shapiro, PhD</b>  <b>Professor of Chemical Engineering and Medical Engineering, Caltech</b>  <b>Investigator, Howard Hughes Medical Institute; Director, Center for Molecular and Cellular Medicine</b> (<a href="https://shapirolab.caltech.edu">https://shapirolab.caltech.edu</a>)  Topic: Talking to cells: Biomolecular engineering for deep tissue imaging and control of cellular function.  Moderator: Danial Panahandeh Shahraki (Caltech)</p> <p><b>Liang Gao, PhD</b>  <b>Associate Professor of Bioengineering, UCLA</b>  <a href="https://www.iopticslab.seas.ucla.edu">https://www.iopticslab.seas.ucla.edu</a>  Topic: Computational fluorescence lifetime imaging microscopy: towards high speed and 3D  Moderator: Danial Panahandeh Shahraki (Caltech)</p>
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<b>3:00 - 3:30 pm</b>	<b>Poster Session</b>
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**Acknowledgment:** Frank Munoz, Department of Medicine, UCLA  
Christine Garske, Department of Medical Engineering, Caltech  
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