

# Biology

Session **A**

Room: 127 Baxter

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| 1:00 - 1:20 PM | <b>Arman M. Thoresen</b><br>University of California,<br>Irvine<br><i>Amgen Scholar</i>                         | Developing a human tonsil organoid workflow for single-cell antibody discovery using the Beacon optofluidics platform | Pamela J. Bjorkman<br><i>David Baltimore Professor of Biology and Biological Engineering; Merken Institute Professor</i><br>Kate Malecek<br><i>Lab Manager for the Berkeley Lights Beacon Instrument</i>                                                                                  |
| 1:20 - 1:40 PM | <b>Emil K. Uddevik</b><br>Imperial College London                                                               | Can we study growth arrest in diverse bacteria using electrochemistry?                                                | Dianne K. Newman<br><i>Gordon M. Binder/Amgen Professor of Biology and Geobiology; Merkin Institute Professor</i><br>Kemal Demirer<br><i>Graduate Student in Biology</i>                                                                                                                  |
| 1:40 - 2:00 PM | <b>Tasnim Ghoniem</b><br>Columbia University                                                                    | How does phenazine retention in <i>Pseudomonas aeruginosa</i> biofilms generalize to diverse clinical isolates?       | Dianne K. Newman<br><i>Gordon M. Binder/Amgen Professor of Biology and Geobiology; Merkin Institute Professor</i><br>Eloise Masquelier<br><i>Postdoctoral Scholar Research Associate in Chemical Engineering</i><br>Ezekiel J. Johnson<br><i>Graduate Student in Bioengineering</i>       |
| 2:00 - 2:20 PM | <b>Kamarya A. Buckley</b><br>University of Maryland, Baltimore County<br><i>Chen Institute BrainWAVE Fellow</i> | Evolutionary Changes in Pheromone Production and Same-Sex Social Behavior in <i>Drosophila</i>                        | David J. Anderson<br><i>Seymour Benzer Professor of Biology; Investigator, Howard Hughes Medical Institute</i><br>Yousef Ouadah<br><i>Senior Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i><br>Ziqing Zhong<br><i>Graduate Student in Neurobiology</i> |
| 2:20 - 2:40 PM | <b>OPEN</b>                                                                                                     |                                                                                                                       |                                                                                                                                                                                                                                                                                           |
| 2:40 - 2:50 PM | <b>BREAK</b>                                                                                                    |                                                                                                                       |                                                                                                                                                                                                                                                                                           |

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| 2:50 - 3:10 PM | <b>Deborah R. Fu</b><br>University of Michigan,<br>Ann Arbor<br><i>Chen Institute BrainWAVE<br/>Fellow</i>               | Decoding behavioral states and<br>transition dynamics in human<br>driving task                                                   | Markus Meister<br><i>Anne P. and Benjamin F.<br/>Biaggini Professor of Biological<br/>Sciences</i><br>Yingxi Jin<br><i>Graduate Student in<br/>Computation and Neural<br/>Systems</i>                                                                                                                                                                                         |
| 3:10 - 3:30 PM | <b>Evan Z. Zhang</b><br>Caltech<br><i>Franz and Anne Nierlich<br/>SURF Fellow</i>                                        | An engineered prodrug-<br>activating enzyme for circuit-<br>based cancer therapy                                                 | Michael B. Elowitz<br><i>Roscoe Gilkey Dickinson<br/>Professor of Biology and<br/>Bioengineering; Investigator,<br/>Howard Hughes Medical<br/>Institute</i><br>Andrew Lu<br><i>Scientist Research in Biology<br/>and Biological Engineering</i><br>Lukas Moeller<br><i>Graduate Student in<br/>Bioengineering</i>                                                             |
| 3:30 - 3:50 PM | <b>Qianqian Li</b><br>University of Cambridge<br><i>Caltech-Cambridge Exchange</i>                                       | Toward absolute protein<br>quantification in the mammalian<br>circadian clock: Evaluating flow<br>cytometry and Western blotting | Michael B. Elowitz<br><i>Roscoe Gilkey Dickinson<br/>Professor of Biology and<br/>Bioengineering; Investigator,<br/>Howard Hughes Medical<br/>Institute</i><br>Gal Manella<br><i>Postdoctoral Scholar Research<br/>Associate in Biology and<br/>Biological Engineering</i>                                                                                                    |
| 3:50 - 4:10 PM | <b>Kaedan A. Hendrix</b><br>Howard University<br><i>Rev. Dr. Everett Howe and<br/>Dr. Isabella Furth WAVE<br/>Fellow</i> | Building a minimal toolkit for<br>multicellularity: Investigating<br>T cell regulation through<br>synthetic circuits             | Michael B. Elowitz<br><i>Roscoe Gilkey Dickinson<br/>Professor of Biology and<br/>Bioengineering; Investigator,<br/>Howard Hughes Medical<br/>Institute</i><br>Jacob Parres-Gold<br><i>Graduate Student in<br/>Biochemistry and Molecular<br/>Biophysics</i><br>Ethan Richman<br><i>Postdoctoral Scholar Research<br/>Associate in Biology and<br/>Biological Engineering</i> |
| 4:10 - 4:30 PM | <b>Kaifeng Zhang</b><br>University College London                                                                        | Investigating sex-specific<br>differences in the squid- <i>Vibrio</i><br>symbiosis using 5'-RNA<br>sequencing                    | Margaret J. McFall-Ngai<br><i>Faculty Associate in Biology<br/>and Biological Engineering</i><br>Drew Honson<br><i>External Affiliate in Biology</i>                                                                                                                                                                                                                          |