



| Date | Time | Track | Presentation Title | Speaker |
|-------|---------------------------|----------------------------------|--|---|
| 6-Aug | 08:30 - 10:00 AM | Lab Policy Workshop | Be 'System'atic: Creating Lab Culture and Training Environment Through Lab Policies | Jennifer M. Heemstra, PhD Associate Professor of Chemistry, Emory University |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part I: Scientific Storytelling | Bri McWhorter, MFA Founder & CEO of Activate of Captivate |
| 6-Aug | 10:00 - 11:00 AM | Beckman Briefings Workshop | Part II: Extracting Photochemical Design Principles from Biological Systems in vivo | Marco Allodi, PhD Arnold O. Beckman Postdoctoral Fellow, University of Chicago |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part III: Exploring the inhibition of Alk2 kinase and dimerization of EGFR kinase | Kumar Ashtekar, PhD Postdoctoral Fellow, Yale School of Medicine |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part IV: SPARC - A method to genetically manipulate precise proportions of cells | Jesse Isaacman-Beck, PhD Postdoctoral Fellow, Stanford University |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part V: Mechanisms for perceptual organization in the rodent visual cortex | Francisco Luongo, PhD Postdoctoral Fellow, California Institute of Technology |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part VI: Dissecting Cell Signaling Networks That Regulate Adult Neural Stem Cell Functions | Kira Mosher, PhD Postdoctoral Fellow, University of California, Berkeley |

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| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part VII: From biochemical nanosensors to imaging to informatics to COVID-19 convalescent plasma - developing diagnostics and therapies for clinical medicine | Freddy Nguyen, MD, PhD Pathology Resident, Mount Sinai Hospital, Research Fellow, Massachusetts Institute of Technology, Co-Director of MIT COVID-19 Challenge, Massachusetts Institute of Technology |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part VIII: The "Real" Nuclear Physics: Tracking Genome Dynamics in Time and Space | Massa Shoura, PhD Postdoctoral Fellow, Stanford University |
| 6-Aug | 10:00 - 11:30 AM | Beckman Briefings Workshop | Part IX: Unraveling the interplay between transcription and RNA folding | Eric Strobel, PhD Postdoctoral Fellow, Northwestern University |
| 6-Aug | 11:30 - 01:00 PM | Communicating Science Workshop | Part I: How To Promote Your Science And Talk To Reporters Like A Pro | Carmen Drahl, PhD Freelance Science Journalist |
| 6-Aug | 11:30 - 01:00 PM | Communicating Science Workshop | Part II: How to Create the Ultimate Scientific Poster with User Experience Design | Mike Morrison User Experience Designer, Graduate Student, Michigan State University |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | A novel superconducting family by design: how can we make superconductivity and magnetism coexist in one material? | Weiwei Xie, PhD Professor of Chemistry, Louisiana State University/Rutgers University |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | An optical brain-machine interface through the development of protein, microscope, and deep learning tools | Yiyang Gong, PhD Assistant Professor, Departments of Biomedical Engineering, Electrical & Computer Engineering, and Neurobiology, Duke University |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Carbon dioxide utilization in plastic production: Development of a nickel catalyst | Vennela Mannava Undergraduate Student, University of Chicago |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Causes and consequences of rapid cancer cell adaptation to therapeutic drugs | Sabrina Spencer, PhD Assistant Professor of Biochemistry, University of Colorado, Boulder |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Copper Hydride Catalysis for the Synthesis of Axially Chiral Allenes | Liela Romero, PhD Assistant Professor of Chemistry, Baylor University |

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| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Engineering electroautotrophy | Michaela TerAvest, PhD Assistant Professor of Biochemistry & Molecular Biology, Michigan State University |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | From biochemical nanosensors to imaging to informatics to COVID-19 convalescent plasma - developing diagnostics and therapies for clinical medicine | Freddy Nguyen, MD, PhD Pathology Resident, Mount Sinai Hospital, Research Fellow, Massachusetts Institute of Technology, Co-Director of MIT COVID-19 Challenge, Massachusetts Institute of Technology |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Heterogeneous ultrafast relaxation in photosynthetic light-harvesting proteins | Gabriela Schlau-Cohen, PhD Associate Professor of Chemistry, Massachusetts Institution of Technology |
| 6-Aug | 12:00 - 12:05 AM | CubeSat | Irvine CubeSat STEM Program | Jonathon Bower Student |
| 6-Aug | 12:00 - 12:05 AM | CubeSat | Irvine CubeSat STEM Program | Eric Ho Student |
| 6-Aug | 12:00 - 12:05 AM | CubeSat | Irvine CubeSat STEM Program | Kaylee Kim Student |
| 6-Aug | 12:00 - 12:05 AM | CubeSat | Irvine CubeSat STEM Program | Sarina Doshi Student |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Liquid phase Peak Force Infrared Microscopy: Super-resolution Infrared Microscopy in the Aqueous Phase | Xiaoji Xu, PhD Assistant Professor of Chemistry, Lehigh University |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Mechanistic basis for the evolution of eukaryotic specialized metabolism | Jing-Ke Weng, PhD Associate Professor of Biology, Massachusetts Institute of Technology |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | More Exquisitely Adapted Species Have Higher Structural Disorder in Vertebrate Protein Domains | Catherine Weibel Undergraduate Student, University of Arizona |

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| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Nanomaterials Engineering to Probe and Control Living Systems | Markita Landry, PhD Assistant Professor of Chemical and Biomolecular Engineering, University of California, Berkeley |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Neuromechanics of Locomotor Transitions on Energy Landscapes of Complex Terrain | Chen Li, PhD Assistant Professor of Mechanical Engineering, Johns Hopkins University |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Prevalence and reactivity of fused-rubredoxin AlkBs | Shoshana Williams Graduate Student, Stanford University |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Probing (intracellular) physicochemical environments at the nanometer scale, one molecule at a time | Ke Xu, PhD Assistant Professor of Chemistry, University of California, Berkeley |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | ShadowAuxin: Optimization of Quenching FRET Pairs for a Fluorescent Auxin Biosensor | Silas Miller Undergraduate Research Assistant, Whitman College |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | SPARC - A method to genetically manipulate precise proportions of cells | Jesse Isaacman-Beck, PhD Postdoctoral Fellow, Stanford University |
| 6-Aug | 12:00 - 12:05 AM | BYI Final Presentation | Systematic, organism-wide gene regulation drives individual lifespan in <i>C. elegans</i> | Zachary Pincus, PhD Assistant Professor, Departments of Biology and Genetics, Washington University School of Medicine |
| 6-Aug | 12:00 - 12:05 AM | Bio-Chem | Tracking Genome Dynamics in Time and Space | Massa Shoura, PhD Postdoctoral Fellow, Stanford University |
| 7-Aug | 09:00 - 10:15 AM | Profiles in Science: Academia Careers | Part I: The Team, the Generalist, and Seeing Through Blind Spots | Jeffrey S. Moore, PhD Beckman Institute Director, University of Illinois, Urbana- Champaign, Stanley O. Ikenberry Endowed Chair, Professor of Chemistry and Materials Science and Engineering, HHMI Professor |

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| 7-Aug | 09:00 - 10:15 AM | Profiles in Science: Academia Careers | Part II: Adventures in Molecular Recognition | Ming Chen Hammond, PhD Associate Professor of Chemistry, University of Utah |
| 7-Aug | 10:30 - 11:45 AM | Profiles in Science: Industry Careers | Part I: Adventures in Chemical Biology and Drug Discovery | Christopher am Ende, PhD Associate Research Fellow, Pfizer, Inc. |
| 7-Aug | 10:30 - 11:45 AM | Profiles in Science: Industry Careers | Part II: From the Ivory Tower to the Newsroom: Careers in Science Communication | Carmen Drahl, PhD Freelance Science Journalist |
| 7-Aug | 12:00 - 02:30 PM | Profiles in Science: Medicine Careers | Part I: Dual Degrees and Dual Careers -- The Interface between Neurology and Neuroscience | Terrance T. Kummer, MD, PhD Director of Neurotrauma ICU, Barnes Jewish Hospital, Assistant Professor of Neurology, Washington University School of Medicine |
| 7-Aug | 12:00 - 12:30 PM | Profiles in Science: Medicine Careers | Part II: From Oil Refineries to Cataract Surgeries: My Life through Process Flow Diagrams | Shameema Sikder, MD Director of the Center of Excellence for Ophthalmic Surgical Education and Training, Johns Hopkins Hospital Associate Professor of Ophthalmology, Johns Hopkins Medicine |
| 7-Aug | 12:00 - 12:30 PM | Profiles in Science: Medicine Careers | Part III: The physician scientist track: long trajectory and worth it | Kirk Wangenstein, MD, PhD Physician, Penn Medicine, Assistant Professor of Medicine and Assistant Professor of Medicine in Genetics, University of Pennsylvania |
| 7-Aug | 12:00 - 12:30 PM | Profiles in Science: Medicine Careers | Part IV: How to be a sane clinician scientist - a timeline | Lois Smith, MD, PhD Clinican Scientist Ophthalmology, Harvard Medical School, Boston Children's Hospital Professor of Ophthalmology, Harvard Medical School |
| 8-Aug | 09:30 - 11:00 AM | Mental Health in the Sciences | Self-care is Not the Enemy of Performance | Jennifer M. Heemstra, PhD Associate Professor of Chemistry, Emory University |
| 8-Aug | 11:00 - 12:00 PM | Closing Remarks | Appreciation Award Presentation and Closing Remarks | Anne Hultgren, PhD Executive Director, Arnold and Mabel Beckman Foundation William H. May Chairman of the Board of Directors, Arnold and Mabel Beckman Foundation |