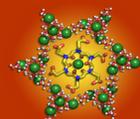


11th Peptoid Summit Agenda



August 10-12, 2022

Live Oral Program

Day One: Wednesday 8/10/22

| Time (PST) | Name | Affiliation | Title | Session |
|-----------------|--|---|---|---|
| 8:00 - 8:10 am | Dr. Ronald Zuckermann | Lawrence Berkeley National Laboratory | Welcome! | WELCOME |
| 8:10 - 8:50 | KEYNOTE ADDRESS: Prof. Alanna Shepartz | University of California, Berkeley | Novel materials from a repurposed translation machine | KEYNOTE 1 |
| 8:50 - 9:20 | LIGHTNING ROUND | <i>(details below)</i> | ⚡⚡⚡ | LIGHTNING 1 |
| 9:20 - 9:50 | BREAK | | | |
| 9:50 - 10:10 | Dr. Aaron Lau | University of Strathclyde | Chain-End Modification of Antimicrobial Peptoids | BIO 1 <i>Chair: Prof. Annelise Barron</i> |
| 10:10 - 10:30 | Prof. Kent Kirshenbaum | New York University | The Emerging Promise of Peptoid Therapeutics: New Profiles of In Vivo Efficacy | |
| 10:30 - 10:50 | Prof. Gomika Udugamasooriya | University of Houston | Peptoid "molecular masks" for ACE2 to effectively and safely block SARS-CoV-2 virus entry | |
| 10:50 - 11:10 | Prof. Gill Diamond | University of Louisville | In vitro and in vivo activity of antimicrobial peptoids against Herpes Simplex Virus | |
| 11:10 - 11:30 | Prof. Kevin Bicker | Middle Tennessee State University | High-throughput discovery and development of antifungal peptoids | |
| 11:30 - 11:50 | Mr. Brian Bacacao | Stanford university | Thiourea potentiates the antibacterial activity of peptoids against multidrug resistant ESKAPE pathogens | |
| 12:00 - 1:00 pm | INTERMISSION | | | |
| 1:00 - 1:20 | Dr. Mark Kline | X-Therma Inc. | Advancing the Field of Organ Transplantation with Peptoid-based Cryoprotectants to Eliminate Organ Waiting Lists Globally | BIO 2 |
| 1:20 - 1:40 | Dr. Colin McKinlay | Nutcracker Therapeutics | Delivery in a Nutshell(TM): Activity-informed design of cationic peptoids with enhanced efficacy for the uptake and expression of mRNA therapeutics | |
| 1:40 - 2:00 | Dr. Jay Grate | Pacific Northwest National Laboratory | Cationic Triazine-based Polymers with Antimicrobial Activity | |
| 2:00 - 2:20 | Prof. Jiyong Lee | The University of Texas at Tyler | Peptoid-conjugated gold nanorods for targeted hyperthermia of cancer stem cells | |
| 2:20 - 2:40 | Prof. Jiwon Seo | Gwangju Institute of Science and Technology | Multi-target engagement of antimicrobial peptoids: Synthesis, biological activity evaluation, and mechanism study | |
| 2:40 - 3:00 | BREAK | | | |
| 3:00 - 3:20 | Mr. Linhai Jiang | New York University | The Role of Carboxyl Side Chains in the Organization and Conformational Switching of Peptoids | CHEM 1 <i>Chair: Prof. Kent Kirshenbaum</i> |
| 3:20 - 3:40 | Ms. Erin Day | University of North Carolina, Chapel Hill | High-Throughput Characterization of Sequence-Dependent Conformation | |
| 4:00 - 4:20 | Dr. Jumpei Morimoto | University of Tokyo | Synthesis and conformational studies of β -peptoids with substituents on backbone carbons | |
| 3:40 - 4:00 | Prof. Li Guo | Jiangsu University | Synthesis and antifreeze properties of glycopolypeptoids | |
| 4:20 - 4:40 | Prof. Sunting Xuan | Soochow University | Synthesis of N-methyl polypeptides by controlled ring opening polymerization | |
| 4:40 - 5:00 | BREAK | | | |
| 5:00 - 5:40 | LIGHTNING ROUND | <i>(details below)</i> | ⚡⚡⚡ | |

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11th Peptoid Summit Agenda

-- All times are Pacific Time --

| Day Two: Thursday 8/11/22 | | | | |
|---------------------------|--|---|---|---|
| 8:00 - 9:45 | POSTER SESSION 1-4 | <i>Four parallel session (details below)</i> | | POSTER 1-4 |
| 9:45 - 10:00 | BREAK | | | |
| 10:00 - 10:20 | Martyn Merrilees | University of Strathclyde | Convenient ambient preparation of block co-polypeptoids incorporating specific sequences | CHEM 2 <i>Chair: Prof. Kent Kirshenbaum</i> |
| 10:20 - 10:40 | Dr. Sophie Faure | Université Clermont Auvergne | Arylopeptoid macrocycles: towards shape-persistent architectures | |
| 10:40 - 11:00 | Prof. Gaetano Angelici | Università di Pisa | Polyproline I helix obtained from (S)-Indoline-2-carboxylic acid oligomer | |
| 11:00 - 11:10 | BREAK | | | |
| 11:10 - 11:30 | Dr. Chun-Long Chen | Pacific Northwest National Laboratory | Development of peptoid-based crystalline nanomaterials as biomimetic catalysts for lignin depolymerization | NANO 1 <i>Chair: Dr. Ronald Zuckermann</i> |
| 11:30 - 11:50 | Prof. Ellen Robertson | Union College | Using peptoid nanosheets as platforms for controlling nanoparticle assembly into solution-stable 2D arrays | |
| 11:50 - 12:10 | Renyu Zheng | Pacific Northwest National Laboratory | Self-assembly of short sequence diblock peptoids into nanohelices with tunable supramolecular chirality | |
| 12:10 - 1:00 pm | INTERMISSION | | | |
| 1:00 - 1:20 | Prof. Francois Baneyx | University of Washington | Hierarchical Hybrid Materials from High-Information-Content Building Blocks | NANO 2 |
| 1:20 - 1:40 | Dr. Mingfei Zhao | University of Chicago | Mechanical properties of peptoid sheets lead to structure and size distribution of peptoid nanotubes | |
| 1:40 - 2:00 | Dr. Shih-Ting Wang | Columbia University | Nanomaterial stabilization through engineered sequence-defined peptoids | |
| 2:00 - 2:20 | Meng Zhang | Louisiana State University | Understanding the Role of charge pattern on the Micellar Structure of Polypeptoid Multi-Block Copolymers | |
| 2:20 - 2:40 | BREAK | | | |
| 2:40 - 3:00 | Dr. Xi Jiang | Lawrence Berkeley National Laboratory | Hierarchical structures of peptoid polymers revealed by cryogenic electron microscopy | NANO 3 |
| 3:00 - 3:20 | Dr. Tianyi Yu | Lawrence Berkeley National Laboratory | Controlling the Nano-scale Morphology and Crystallinity of Peptoid Nanostructures by Modulating Lattice Interactions with Small Molecules | |
| 3:20 - 4:00 | KEYNOTE ADDRESS: Prof. Michael Yu | University of Utah | Collagen hybridizing peptides and peptoids: from protein folding to disease targeting | KEYNOTE 2 |
| 4:00 - 4:20 | BREAK | | | |
| 4:20 - 4:40 | Dr. Ronald Zuckermann | Lawrence Berkeley National Laboratory | Intra- and Inter-chain Interactions in Peptoid Supramolecular Assemblies | NANO 4 |
| 4:40 - 5:00 | Prof. Jing Sun | Jilin University | Functional bioinspired peptoid polymers and the self-assemblies | |
| 5:00 - 5:20 | COMMUNITY FEEDBACK OPEN DISCUSSION (please input your suggestions on the conference homepage) | | | |
| 5:20 - 7:00 | POSTER SESSION 5-7 | <i>Three parallel session (details below)</i> | | POSTER 5-7 |

11th Peptoid Summit Agenda

-- All times are Pacific Time --

| Day Three: Friday 8/12/22 | | | | |
|---------------------------|--|---------------------------------------|---|---|
| 9:00 - 9:20 | Mr. Hamish Swanson | University of Strathclyde | Martinoid: A Peptoid Martini Force Field | COMP 1 <i>Chair: Prof. Vincent Voelz</i> |
| 9:20 - 9:40 | Prof. Vincent Voelz | Temple University | Improving molecular simulations of peptoids with Bayesian inference | |
| 9:40 - 10:00 | Mr. Rakshit Jain | North Carolina State University | Development of an atomistic forcefield for peptoids | |
| 10:00 - 10:20 | Dr. Xubo Luo | Lawrence Berkeley National Laboratory | Molecular dynamics study of the self-assembly of polypeptoid nanocrystals | |
| 10:20 - 10:40 | BREAK | | | |
| 10:40 - 11:00 | Mr. James Baggs Eastwood | New York University | Experimental and Theoretical Scaffolds for Peptoid Design | COMP 2 |
| 11:00 - 11:20 | Dr. Jeevapani Hettige | Pacific Northwest National Laboratory | Molecular dynamics study of peptoid-membrane interactions and potential pore-formation in lipid membranes | |
| 11:20 - 12:20 | AWARDS & CLOSING | | | |
| 3:00 - 7:00 | BBQ and Frisbee Fest! <i>In-person gathering in Berkeley, CA (details online)</i> | | | |
| |  | | | |



Pre-recorded Oral Presentations



Available in the "On Demand" section!

Bio Bundle

| | | | |
|--------|----------------------|-----------------------------------|--|
| 15 min | Dr. Justine Habault | New York University | MPC309, a novel multivalent peptoid conjugate, specifically inhibits prostate cancer cell proliferation by modulating the androgen receptor transcriptional activity |
| 15 min | Dr. Claudia Zielke | Stanford University | DNA-binding peptoid TM1 as an alternative to LL-37 in immunostimulatory LL-37-nucleic acid complexes |
| 15 min | Dr. Josefine Nielsen | Stanford University | The use of antimicrobial "Peptoid 1" as a prophylactic treatment against Alzheimer's disease |
| 15 min | Mr. Haowen Zhang | University of Houston | Optimization and biological validation of a vimentin binding peptoid in non-small cell lung cancer stem cells |
| 15 min | Ms. Mary Tran | Middle Tennessee State University | Improving antifungal peptoid potency and cytotoxicity through an iterative structure-activity relationship study |
| 15 min | Dr. Sujit Suwal | SUNY-Buffalo State | Hybrid Peptoid-Peptide Towards Inhibition of Cardiac Fibrosis |

Chem Bundle

| | | | |
|--------|----------------------|---|--|
| 15 min | Dr. Srijani Sarkar | National Cancer Institute | Binding of Gamma Peptide Nucleic Acid Oligomers to Structured Nucleic Acid Targets Derived from Viral and Human Genome |
| 15 min | Dr. William Brittain | Durham University | Accessing Chiral Metal Binding Building Blocks for Peptoid Synthesis |
| 15 min | Mr. Shawn Mengel | University of California, Santa Barbara | Controlling End-to-End Distance with Monomer Sequence in Short Polypeptides |
| 15 min | Prof. Michele Laus | Università del Piemonte Orientale | Polypeptoid Brush Layers: Bioinspired Dopant Containing Polymers at the Top |

Nano Bundle

| | | | |
|--------|---------------------|---|---|
| 15 min | Mr. Min Chen | Lawrence Berkeley National Laboratory | Study of the Liquid Crystal Phase Transition in Polypeptides with 4D-STEM |
| 15 min | Dr. Li Shao | Pacific Northwest National Laboratory | Multidimensional hierarchical self-assembly of rational-designed peptoids sequences |
| 15 min | Dr. Changning Li | Pacific Northwest National Laboratory | Peptoid-engineered Synthesis of Gold Nanocrystals and Its Application as Highly Efficient Environmentally-friendly Heterogeneous Photocatalysts |
| 15 min | Dr. Yanxu Zong | Pacific Northwest National Laboratory | Tackling the Atomic Structure of Self-Assembled Peptoid Nanosheet with Cryogenic Electron Crystallography |
| 15 min | Ms. Audra DeStefano | University of California, Santa Barbara | Water dynamics throughout the corona of polymeric micelles relate to polymer volume fraction |

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Pre-recorded Interviews



Available in the "On Demand" section!

Date recorded

Insights from Industry Leaders

| | | | | |
|--------|---------------------------------|---------------------|---|---------|
| 17 min | Joshua McClure | Maxwell Biosciences | An interview discussing Maxwell's work toward peptoid-based anti-infectives. | 7/28/22 |
| 21 min | Robert Hagopian | PolyPeptide Group | An interview discussing the production of peptoids on a commercial scale. | 8/2/22 |
| 13 min | Dr. Reddy Moola, Bill Shelander | AnVen Biosciences | An interview about the systematic discovery of bioactive peptoids. | 8/2/22 |
| 15 min | Dr. Xiaoxi Wei | X-Therma | An interview on the remarkable ability of peptoids to aid in the preservation of organs during transplants. | 8/9/22 |

User Facilities

| | | | | |
|--------|---|--|---|---------|
| 15 min | Prof. Javier Read de Alaniz, Dr. Morgan Bates | BioPACIFIC MIP | An interview about the capabilities offered by a new User Program from UC Santa Barbara and UC Los Angeles. | 7/29/22 |
| 15 min | Shanon Ciston, Michael Connolly | Molecular Foundry, Lawrence Berkeley National Laboratory | An interview about the Foundry's User Program and how it can benefit the peptoid community. | 8/2/22 |

Lightning Rounds (Live)

3-minute open mic session

| Lightning 1 | Wednesday 8:50 - 9:20 AM | <i>Chair: Dr. Ronald Zuckermann</i> | |
|--------------------|---------------------------------|---|--|
| 1 | Dr. Olivier Roy | Université Clermont Auvergne | N-alkylamino peptoid homooligomers |
| 2 | Dr. Giovanni Pierrì | University of Salerno | Channel adaptability in a permanently porous peptoid material |
| 3 | Dr. Rosaria Schettini | University of Salerno | Azamacrocycles designed from cyclic peptoids as novel magnetic resonance imaging contrast agents |
| 4 | Ms. Jennifer Franco | New York University | Peptoid-Peptide Macrocycles Inhibit the Interaction Between β -Catenin and TCF |
| 5 | Mr. Ethan Weisberg | University of Pennsylvania | Enabling Structural Insights with the New Peptoid Data Bank |
| 6 | Thi Kim Hoang Trinh | Pacific Northwest National Laboratory | Self-Assembled Metal-Containing Peptoid Nanosheets for Promoting Degradation of Chemical Warfare Agent Stimulants |
| 7 | Mary Nguyen | University of Washington, Seattle | Morphological Transitions of Photoresponsive Amphiphilic Peptoid Nanostructures |
| 8 | Abigail Clapperton | University of Toronto | Solution-phase synthesis of sequence-controlled polypeptoids |
| 9 | Carolynn Davern | North Carolina State University | Restriction of peptoid amide bonds using N-imino and N-alkylamino glycines |
| Lightning 2 | Wednesday 5:00 - 5:40 PM | <i>Chair: Dr. Ronald Zuckermann</i> | |
| 1 | Mr. Colton Quick | Gyros Protein Technologies | Automated Peptoid Synthesis on PurePep® Chorus and Symphony® X |
| 2 | Mr. Minsang Kim | Gwangju Institute of Science and Technology | Real-time monitoring multi-target mechanism of antimicrobial peptoids using label-free imaging with optical diffraction |
| 3 | Mrs. Manjulatha Sara | University of New South Wales | Antimicrobial activity of peptoids against clinical pathogens |
| 4 | Mrs. Dasom Song | Gwangju Institute of Science and Technology | Antimicrobial peptoids containing a metal-chelating moiety that generates reactive oxygen species |
| 5 | Mr. Jinyoung Oh | Gwangju Institute of Science and Technology | Pyrene-containing helical peptoids: structure driven chiral inversion of excimer |
| 6 | Prof. Jianhua Ren | University of the Pacific | Mass spectrometry studies of metalated peptoids-enhanced ionization and fragmentation efficiency |
| 7 | Ms. Michelle Nguyen | Santa Clara University | Sequence-structure-function relationships of water-soluble peptoid helices |
| 8 | Ms. Abigail Barnum | Kalamazoo College | Peptoid flexibility using DFT: Towards predicting NMR chemical |
| 9 | Ms. Zhang Min | Jiangsu University | Design, Synthesis and Antifreeze Properties of Biomimetic Peptoid Oligomers |
| 10 | Ms. Min Lin | Jilin University | Photo-Triggered Antimicrobial polypeptoids with Biocompatibility and Synchronizing Antifouling and Antimicrobial Hydrogels |
| 11 | Mr. Qiu Zhifeng | Jiangsu University | Synthesis and characterization of micelles from thermal-responsive amphiphilic triblock copolypeptoids as drug carrier |

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Poster Presentations (Live) Parallel sessions

| Poster 1 | Thursday AM | | Chair: Dr. Aaron Lau |
|-------------|----------------------------|---------------------------------------|--|
| 8:00 - 8:15 | Mr. Patrick Tate | New York University | Investigation of membrane-active antiviral peptoids |
| 8:15 - 8:30 | Dr. Leiping Zeng | Stanford University | Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants |
| 8:30 - 8:45 | Ms. Jennifer Franco | New York University | Peptoid-Peptide Macrocycles Inhibit the Interaction Between β -Catenin and TCF ⚡ |
| 8:45 - 9:00 | Dr. Bryan Knuckley | University of North Florida | A novel peptoid-based inhibitor of Protein Arginine Methyltransferase 1 (PRMT1) causes apoptosis and autophagy in cancer cells |
| 9:00 - 9:15 | Ms. Wenhan Zhao | Steven Institute of Technology | Peptoid-Loaded Microgel-Modified Ti Wires Inhibit Intra-Operative OR Contamination |
| 9:15 - 9:30 | Mr. Haowen Zhang | University of Houston | Optimization and biological validation of a vimentin binding peptoid in non-small cell lung cancer stem cells |
| 9:30 - 9:45 | Open discussion | | |
| Poster 2 | Thursday AM | | Chair: Dr. Sophie Faure |
| 8:00 - 8:15 | Dr. Olivier Roy | Université Clermont Auvergne | N-alkylamino peptoid homooligomers ⚡ |
| 8:15 - 8:30 | Dr. Giovanni Pierrri | University of Salerno | Channel adaptability in a permanently porous peptoid material ⚡ |
| 8:30 - 8:45 | Dr. Rosaria Schettini | University of Salerno | Azamacrocycles designed from cyclic peptoids as novel magnetic resonance imaging contrast agents ⚡ |
| 8:45 - 9:00 | Ms. Diana Kolos | Durham University | The application of perfluoroaromatics in the formation of macrocyclic peptoids |
| 9:00 - 9:15 | Mr. Lewis Picken | Durham University | Exploring the Effects of Fluoroalkyl Sidechains on Peptoid Secondary Structure |
| 9:15 - 9:45 | Open discussion | | |
| Poster 3 | Thursday AM | | Chair: Prof. Steven Cobb |
| 8:00 - 8:15 | Mr. Ethan Weisberg | University of Pennsylvania | Enabling Structural Insights with the New Peptoid Data Bank ⚡ |
| 8:15 - 8:30 | Mr. Akash Banerjee | Rutgers University | A coarse-grained model to study the organization of helical peptoids in biomolecular assemblies |
| 8:30 - 8:45 | Mr. Ayman Akhdar | Université Clermont Auvergne | Arylopeptoid Functionalization using Carbene Copper Catalyst |
| 8:45 - 9:00 | Dr. Arnaud Gautier | Université Clermont Auvergne | Activated Arylopeptoids for CuAAC |
| 9:00 - 9:15 | Mrs. Elena Mancera-Andrade | Middle Tennessee State University | Synthesis and biological characterization of derivatives of the antifungal peptoid RMG8-8 |
| 9:15 - 9:30 | Ms.Carolynn Davern | North Carolina State University | Restriction of peptoid amide bonds using N-imino and N-alkylamino glycines ⚡ |
| 9:30 - 9:45 | Open discussion | | |
| Poster 4 | Thursday AM | | Chair: Dr. Tianyi Yu |
| 8:00 - 8:15 | Dr. Thi Kim Hoang Trinh | Pacific Northwest National Laboratory | Self-Assembled Metal-Containing Peptoid Nanosheets for Promoting Degradation of Chemical Warfare Agent Stimulants ⚡ |
| 8:15 - 8:30 | Ms. Mary Nguyen | University of Washington, Seattle | Morphological Transitions of Photoresponsive Amphiphilic Peptoid Nanostructures |
| 8:30 - 8:45 | Ms. Abigail Clapperton | University of Toronto | Solution-phase synthesis of sequence-controlled polypeptoids ⚡ |
| 8:45 - 9:00 | Dr. Beihang Yu | Lawrence Berkeley National Laboratory | Sequence-defined peptoid brushes for surface nanopatterning to direct bimolecular assemblies |
| 9:00 - 9:15 | Dr. Sabari Ghosh | Lawrence Berkeley National Laboratory | Peptoid nanosheets as a rapid discovery platform for critical materials separation |
| 9:15 - 9:45 | Open discussion | | |



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| Poster 5 | | Thursday PM | | <i>Chair: Prof. Kent Kirshenabum</i> |
|-----------------|----------------------------|---|---|--------------------------------------|
| 5:20 - 5:35 | Mr. Minsang Kim | Gwangju Institute of Science and Technology | Real-time monitoring multi-target mechanism of antimicrobial peptoids using label-free imaging with optical diffraction | ⚡ |
| 5:35 - 5:50 | Mrs. Manjulatha Sara | University of New South Wales | Antimicrobial activity of peptoids against clinical pathogens | ⚡ |
| 5:50 - 6:05 | Mrs. Dasom Song | Gwangju Institute of Science and Technology | Antimicrobial peptoids containing a metal-chelating moiety that generates reactive oxygen species | ⚡ |
| 6:05 - 6:20 | Ms. Xiran Shen | Jiangsu University | Biocompatible surface from cationic polypeptoids with antibacterial specificity | |
| 6:20 - 6:35 | Mrs. Ghayah Bahatheg | University of New South Wales | Design and Synthesis of Novel Antimicrobial Peptoids | |
| 6:35 - 6:50 | Ms. Mary Tran | Middle Tennessee State University | Rapid discovery of antimicrobial peptoids against Staphylococcus aureus using the high-throughput Peptoid Library Agar Diffusion (PLAD) assay | |
| 6:50 - 7:00 | Open discussion | | | |
| Poster 6 | | Thursday PM | | <i>Chair: Prof. Caroline Proulx</i> |
| 5:20 - 5:35 | Mr. Elliott Anderson | Santa Clara University | Interfacial studies of water-soluble peptoids adsorbed to phospholipids | |
| 5:35 - 5:50 | Mr. Jinyoung Oh | Gwangju Institute of Science and Technology | Pyrene-containing helical peptoids: structure driven chiral inversion of excimer | ⚡ |
| 5:50 - 6:05 | Mr. Yen Jea Lee | Gwangju Institute of Science and Technology | Post-synthetic methods to incorporate azoles on side chains of peptoids | |
| 6:05 - 6:20 | Prof. Jianhua Ren | University of the Pacific | Mass spectrometry studies of metalated peptoids-enhanced ionization and fragmentation efficiency | ⚡ |
| 6:20 - 6:35 | Ms. Michelle Nguyen | Santa Clara University | Sequence-structure-function relationships of water-soluble peptoid helices | ⚡ |
| 6:35 - 6:50 | Ms. Abigail Barnum | Kalamazoo College | Peptoid flexibility using DFT: Towards predicting NMR chemical shifts | ⚡ |
| 6:50 - 7:00 | Open discussion | | | |
| Poster 7 | | Thursday PM | | <i>Chair: Dr. Beihang Yu</i> |
| 5:20 - 5:35 | Ms. Zhang Min | Jiangsu University | Design, Synthesis and Antifreeze Properties of Biomimetic Peptoid Oligomers | ⚡ |
| 5:35 - 5:50 | Ms. Min Lin | Jilin University | Photo-Triggered Antimicrobial polypeptoids with Biocompatibility and Synchronizing Antifouling and Antimicrobial Hydrogels | ⚡ |
| 5:50 - 6:05 | Mr. Qiu Zhifeng | Jiangsu University | Synthesis and characterization of micelles from thermal-responsive amphiphilic triblock copolypeptoids as drug carrier | ⚡ |
| 6:05 - 6:20 | Mr. Frank Truong | University of California, Santa Barbara | Investigating Sequence Electrostatic Effects on Polymer Conformation Using Polypeptoids: A Single-Molecule Force Study | |
| 6:20 - 6:35 | Ms. Daniela Rivera Mirabal | University of California, Santa Barbara | Sequence Modulates Polypeptoid Hydration Water Structure and Dynamics | |
| 6:35 - 7:00 | Open discussion | | | |

