

Day 1 Poster Presentations

FIRST	LAST	POSTER TITLE
Dmitriy	Aronov	Flexible use of memory by food-caching birds in a laboratory behavioral paradigm
Jordan	Aucoin	The Microwave Spectrum and Molecular Structure of Trans-2-Fluoro-3-(Trifluoromethyl)Oxirane and its Complexes with the Argon Atom and a Chiral Analyte
Keriann	Backus	Expanding the Druggable Proteome
Cristina	Baker	Behavioral Gene Expression of the Cichlid Telencephalon
Amymarie	Bartholomew	Building 2D Materials from Superatoms
Jeremy	Baskin	Chemical Tools that IMPACT Lipid Signaling
Camaryn	Bennett	Adding Transient Bonds to Hyperelastic Models
Katharine	Bowers	Quantifying tadpole bullying behavior: Building an analytical pipeline to investigate how <i>Xenopus laevis</i> embryos identify deformities
Jennifer	Bridwell-Rabb	Title: An O ₂ -dependent Strategy for C-H bond functionalization in Photosynthetic Pigment biosynthesis
Kelcie	Britton	Functional and Genetic Analysis of Esterase Genes Involved in the Synthesis of Ergot Alkaloids
Henry	Cardwell	Determination of Experimental and Computational Proton Affinities of Proline Containing Dipeptides
Kangway	Chuang	Attention-Based Learning on Molecular Ensembles
Megan	Coolahan	Investigating the effects of a bacterial signaling molecule on a master regulator of DNA repair in marine phytoplankton
Myles	Drance	Altering the Reactivity of Phosphorus Through Geometric Constraint
Nicholas	Dulock	Enabling Lithium Metal Anode in Nonflammable Phosphate Electrolyte with Electrochemically Induced Chemical Reactions
Christine	Fasana	Bottom-Up Assembly of Nanomaterials and Thin Films
Johanna	Fowler	The membrane-bound conformational distribution of alpha-synuclein Parkinson's disease-linked mutants can be studied with site-specific infrared spectroscopy.
Dan	Fu	Quantitative Single Cell Phenotypical Imaging of Multicellular Systems
Sasha	Gill-Ljunghammer	Novel One-Pot Synthesis of Cobalt Ferrite Nanocrystals for Improved Morphology and Size Distribution
Andrea	Giovannucci	FIOLA: An accelerated pipeline for Fluorescence Imaging Online Analysis
Miguel	Gonzalez	Taming the Chlorine Radical: Observation and Control of Chlorine Radical-Mediated C-H Activation
Elora	Greiner	Glow with the Flow: Visualizing Bioelectric Patterns and their Relationship to Axis Determination in <i>Danio rerio</i>
James	He	Identifying the Cell Composition and Clonal Diversity of Supratentorial Ependymoma Using Single Cell RNA-Sequencing
Ashley	Hirt	High-throughput, single-cell methods expand our knowledge of touch and pain cells
Emily	Hughes	Overexpression of RsbW in Chlamydia had limited growth defects
Megan	Jackson	Molecular Control of Crystal Morphology in Anisotropic Metal-Organic Frameworks

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Ramona	Johnson	Dysbiosis During Methadone Use Impacts Gut Barrier Function
Sarah	King	A new spectroscopic method to probe the “unreachable”
Hope	Kirby	Acinetobacter baumannii uses light and temperature as signals for regulation of virulence
Allen	Knepper	Biofouling Resistant ICP Films for Biologically Triggered Dopant Release
Andrew	Kubaney	High-throughput Monitoring of Polymerizations via Ultrasound Imaging
Henry 'Pete'	LaPierre	Covalency and Magnetic Superexchange in Magnetic Materials Design
Wesley	Legant	Intelligent Microscopes to Observe and Interact with Dynamic Specimens
Tania	Lupoli	Designing Synthetic Bacterial Cell Surfaces
Justin	Lyon	Motor Module Comparison Between Strides in Recreational Athletes
Charles	Markus	Fast and Sensitive Infrared Spectroscopy with Chip-Scale Optical Frequency Combs
Jarad	Mason	Increasing the Intrinsic Porosity of Liquids Through Coordination Chemistry
Anna	McTigue	Pair bonding leads to enhanced neural synchrony with a partner which is not disrupted by blockade of oxytocin receptors
Anneke	Moeller	Experimental investigation of NixFe1-xOOH and CoxFe1-xOOH in electrocatalytic oxidation of seawater and Python-based simulation of cyclic voltammograms
Dipti	Nayak	Post-translational thioamidation of methyl-coenzyme M reductase: a key enzyme in methanogenic and methanotrophic Archaea
Jean-Hubert	Olivier	Molecular Strategies to Engineer 2D Nanoscale Objects: Towards Organic Piezoelectric Materials
Nicholas	Pancheri	Investigating collagen structure and enzymatic crosslinkers as regulators of tendon formation
Logan	Porrizzo	Assessing the reliability of a method used to identify de novo genes
Jose	Rodriguez	Ab initio fragment-based determination of protein structures by MicroED
Isabel	Romov	Protecting mutations in human desmoplakin with small molecules
Michelle	Schroeder	VLP-Conjugate Vaccines Produce Diagnostic Monoclonal Antibodies Against Fentanyl Derivatives
Alexander	Schuppe	Enantioselective Hydrocyanation of Olefins without Cyanide
Kimberly	See	Divalent Ion Conductivity in the Solid State
Sonia	Sehgal	Exploring the Role of Biological Probes on MUTYH
Zachary	Sherman	Plasmonic Coupling in Self-Assembled Nanoparticle Gels and Superlattices
Benjamin	Snyder	A Ligand Insertion Mechanism for Cooperative Adsorption in Metal-Organic Frameworks
Saman	Tabatabaee	Investigating the Role of Phase Separation in the Function of ETS Transcription Factor Yan
Michaela	TerAvest	A bacterial chassis to convert electricity and carbon dioxide into fuels

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James	Utterback	Towards direct, label-free imaging of energy transport beyond charge carriers
Julia	Vidlak	Combined Synthetic and Computational Study of Bis(phosphino)pyrrole Ligands and their Transition Metal Complexes for Catalysis
Yue	Wang	Architected Conducting Polymer Hydrogels
Rory	Weeks	The Effects of Sodium on the Thermal Stability of TiS ₂ Nanowires
Ren	Wiscons	Single-Handed Chiral Absorption of the Full Visible Wavelength Range by a [6]Helicene
Weiwei	Xie	Direct-learning Method to Find New Superconductors
Brad	Zuchero	IMAGeNs: genetically encoded tools for determining the role of myelin in brain circuits