

Chemistry/Biochemistry Dept.

POSTER SESSION, 10:00am to 11:30am
CC Odeum

“Hyperosmotic Stress and Extracellular Vesicle Signaling at the Neuromuscular Junction”

Nina Demirs

Advisor(s): Suzanne Scarlata

“Ionic Liquids as Alternative Solvents for Life”

Zoey Wilcox & Callie Nelson

Advisor(s): Destin Heilman & Ronald Grimm

“Super Hydrophobic Metal-Organic Frameworks”

Sara Hancock

Advisor(s): John MacDonald & Christopher Lambert

“Molecular FedEx: Delivery of Calcium Through CalBK Endocytosis”

Corinne Lobecker & Daniela Fritsch

Advisor(s): Suzanne Scarlata

“Tracing the Embryonic Origins of Innate-like T Cells”

Kaelie Newell

Advisor(s): Robert Dempski & Michela Frascoli (UMass Chan Medical School, Pathology Department)

“Covalent Derivatization of Zinc Cyclen Biomimetic Catalysts for Increasing the Rate of Carbonate Generation in Cementitious Materials”

Raymond Andrew

Advisor(s): Ronald Grimm

“Synthesis and Biochemical Evaluation of Enterovirus 68 3C Protease Inhibitors”

Thi Nguyen

Advisor(s): Robert Dempski & Akbar Ali (UMass Chan Medical School)

“Emerging Multidentate "Salen" Derived Ligand is a Viable Platform for Heterogeneous F-Block Metal Sequestration”

Abigail F. Cieniawa

Advisor(s): Ronald Grimm

“Exploring the Role of Starvation Genes in Membrane Lipid Composition in Caenorhabditis elegans”

Arianna Russo

Advisor(s): Carissa Olsen

“Live Cell Imaging with a Novel Mitochondrial Targeted Flavylum”

Abigail Poole

Advisor(s): Anita Mattson

“Abnormal Changes in Neurite’s Morphology during Retraction of PC12 Neurites”

Patrick McDonnell

Advisor(s): Suzanne Scarlata

“A Quinoline-Based Zinc Photocage Designed for Red-Shifted Absorption”

Connor Doran

Advisor(s): Shawn Burdette

“Exploring the Role of PLCβ1 in Myofibroblast Differentiation”

Annabelle Mullins

Advisor(s): Suzanne Scarlata

**“Investigating Interaction Domains
Between the Anaphase Promoting
Complex and CAV VP3”**

Douglas Blinn & Emily Dean

Advisor(s): Destin Heilman

**“SERS-Based Single-Cell Discrimination of
Periodontal Pathogen”**

Connor Nguyen

Advisor(s): Rong Wang

**“Electrochemistry of Self-Assembled Acidic
Molecular Films”**

Audrey Stroupe

Advisor(s): Christopher Lambert & John
MacDonald

**“Structure-Based Design, Synthesis, and
Biochemical Evaluation of Enterovirus D68
3C Protease Inhibitors”**

Julia Murphy

Advisor(s): Robert Dempski & Akbar Ali
(UMass Chan Medical School)

**“Exploring Enantioselective Photocatalytic
 α -C-H Activation Using Chiral Phosphoric
Acid Catalysis”**

Jonah Ricciardi

Advisor(s): Anita Mattson

“TBD”

Jesse Drozd

Advisor(s): Christopher Lambert & Raul
Orduna Picon