

GELLMAN GROUP REUNION 2019

**FRIDAY, AUGUST 9,
2019 THROUGH
SUNDAY, AUGUST 11,
2019**



Friday, August 9, 2019: Opening Reception

**5:00 – 8:00pm Grainger Hall, Room 1530
Capital Cafe (975 University Ave)**

Saturday, August 10, 2019: Gellman Alumni Research Symposium

**8:00 – 8:30am Refreshments and welcome
8:30 – 8:40am Opening remarks, Will Pomerantz and Jon Lai**

Session 1: From Foldamers to Immunology and Biology

**Session Chairs: Alumni: Terra Potocky, Regeneron Pharmaceuticals; Current Gellmanite:
Shi Liu**

8:45 – 10:15 am 15 minute time slots; 12 minute talks/3 minute Q&A

Paul Savage, Brigham Young University

“Converting bacterial antigens into virus-like vaccines to generate high affinity antibodies to capsular glycans”

Christian Hackenberger, FMP Berlin

“Better structured? Protein conjugates for multivalent targeting”

Jon Lai, Albert Einstein College of Medicine

“Protective human monoclonal antibodies against Chikungunya virus isolated from convalescent patients in the Bronx, NY”

Meg Schmitt, University of Colorado

“Multifunctional M13 phage particles as the components of molecular diagnostics”

Runhui Liu, East China University of Science and Technology

“New synthetic strategies to construct peptide polymers with biological functions”

Michael Giuliano, College of Charleston

“Sequential and environmental determinants of neuropeptide conformation”

10:15 – 10:45 am Coffee Break

Session 2: From Foldamers to Therapeutics

Session Chairs: Alumni: Erik Hadley, Stemcell Technologies; Current Gellmanite: Naomi Biok

10:45 am – 12:30 pm 15 minute time slots; 12 minute talks/3 minute Q&A

Gui-Bai Liang, Independent consultant

“Novel GPR40 agonists for the treatment of the type 2 diabetes”

Matt Woll, PTC Therapeutics

“To splice or not to splice: Can small molecules answer the question?”

Justin Murray, Amgen

“Discovery of tarantula venom-derived Nav1.7 inhibitory peptides”

Emily English, Gemstone Biotherapeutics

“Gemstone Biotherapeutics”

Zvi Hayouka, The Hebrew University

“Development of novel antimicrobial peptides”

Ross Cheloha, Boston Children’s Hospital/Harvard Medical School

“Exploration of cell surface protein operation using non-natural protein-peptide conjugates”

12:30 – 2:00 pm Lunch Break

Session 3: Frontiers in Peptide and Foldamer Chemistry

Session Chairs: Alumni: Tim Peelen, Lebanon Valley College; Current Gellmanite: Kate Kurgin

2:00 – 3:30 pm 15 minute time slots; 12 minute talks/3 minute Q&A

Seth Horne, University of Pittsburgh

“Foldamer mimics of protein tertiary structure”

James Checco, University of Illinois

“Exploring the signaling of D-amino acid-containing neuropeptides”

David Mortenson, Scripps Research Institute

“(Quasi)racemic crystallization for the study of native and non-native protein structure”

Soo Hyuk Choi, Yonsei University

“Unconventional peptide helices with switchable handedness”

Josh Price, Brigham Young University

“How much is that salt bridge worth? The context-dependence of non-covalent interaction strength in peptides and proteins”

Younghee Shin, Seoul National University

“Discovery of neuro-protective small molecule regulating proteostasis by regulating PERK signaling in stress responsive manner”

3:30 – 4:00pm **Coffee Break**

Session 4: Beyond Foldamers

Session Chairs: Alumni: Marlies Hager, University of Illinois at Urbana-Champaign;

Current Gellmanite: Victor Outlaw

4:00 – 5:30 pm 15 minute time slots; 12 minute talks/3 minute Q&A

Nick Fisk, University of Colorado

“Dissecting the factors that determine the fidelity of the genetic code using sense codon reassignment”

Matt Windsor, American Chemical Society

“Directing eyeballs to your science”

Félix Freire, University of Santiago de Compostela

“Stimuli-responsive helical polymers”

Tom Stein, Hagerstown Community College

“Bioprinting and the art of career synthesis”

Will Pomerantz, University of Minnesota

“Confessions of a fluorophile: development of protein-observed fluorine NMR (PrOF NMR) to study molecular recognition”

Dan Appella, NIH/NIDDK

“Peptide nucleic acid foldamers: from design to application”

5:30 pm **Closing remarks, Julie Plotkin and Sam Gellman**

6:30 – 9:30 pm **Dinner and Reception, Fluno Center (601 University Ave)**

9:30 pm **Dancing the night away**

Sunday, August 11, 2019: Informal breakfast

9:00am – 12:00pm **Tripp Commons, Memorial Union (800 Langdon Street)**