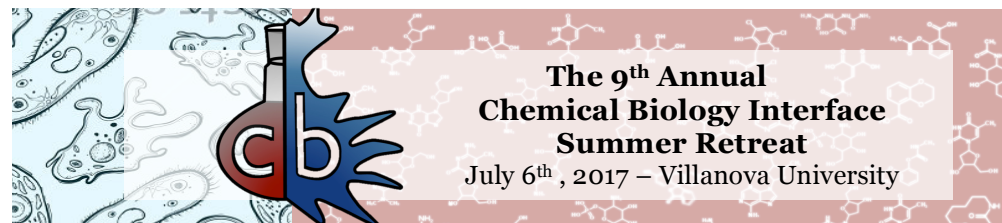


**The 9<sup>th</sup> Annual  
Chemical Biology Interface  
Summer Retreat**  
July 6<sup>th</sup>, 2017 – Villanova University



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**Thank you to our generous sponsors without whom this event would not be possible!**

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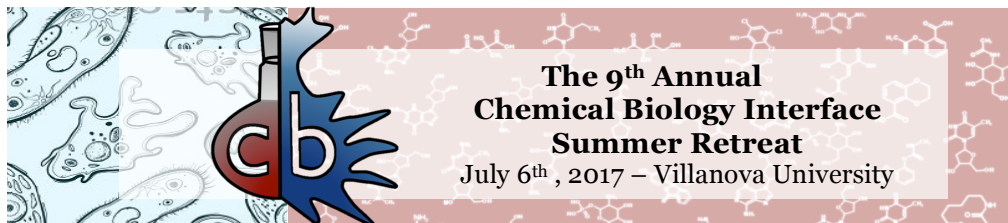


Chemistry-Biology Interface Planning Committee:

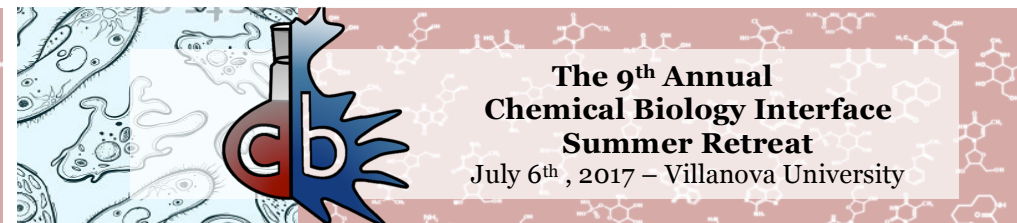
Taylor Barret  
Leah Gottlieb  
Zach Hostetler  
Kelly Karch  
Zach March  
Kristen McKibben

### Schedule of Events:

- 9:30 - 10:00 a.m. **Welcome Breakfast** (Coffee, Tea, Muffins)
- 10:00 – 10:30 a.m. **Ranran Wu**, Garcia Lab  
*Establishing a Novel NanoLC-MS/MS Platform for Detecting and Quantifying DNA Modification*
- 10:30 - 11:00 a.m. **Michael Nicastrì**, Winkler Lab  
*Synthesis of dimeric small molecule lysosomal inhibitors and their use as anticancer agents*
- 11:00 - 11:30 a.m. **Martin Iwanicki**, Discher and Vinogradov  
*Designing Artificial Proteins for Detecting Membrane Potential Changes*
- 11:30 - 12:00 noon **Jeffrey Kubiak**, Kohli Lab  
*A Synthetic Circuit for Inducible, Small Molecule Control of the Bacterial SOS Pathway*
- 12:00 - 1:00 p.m. **Lunch**
- 1:00 - 2:00 p.m. **Poster Session**
- 2:30 - 3:00 p.m. **Ryan Cupo**, Shorter Lab  
*Potentiated cHsp78 variants selectively rescue  $\alpha$ Syn, FUS, or TDP-43 toxicity in yeast*
- 2:30 - 3:00 p.m. **Nicholas Porter**, Christianson lab  
*Trapoxin A is a Noncovalent Irreversible Inhibitor of Class I Histone Deacetylases*
- 3:00 - 4:00 p.m. **Keynote address – Squire Booker**  
*A Radical Reaction Leading to Antibiotic Resistance*
- 4:00 - 6:30 p.m. **Happy Hour**, Sheehan Field



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#	Name	Poster Title
1	Korrie Mack	Engineering potentiated Hsp104 variants with enhanced substrate-specificity to counter neurodegeneration
2	Teresa Rapp	Hydrogels for light-triggered protein delivery
4	Alfredo Caro	Role of conformational entropy in protein-ligand interactions
5	Buyan Pan	Investigating the Effect of Alpha-Synuclein Tyrosine-39 Phosphorylation on Synaptic Vesicle Trafficking
6	JiaBei Lin	Developing therapeutic protein disaggregases for neurodegenerative disease
7	Meredith Jackrel	Potentiated Hsp104 variants to counter protein misfolding
8	Ipsita Subudhi	Developing Potentiated SSA1 and SSB1 Variants to Counter Neurodegeneration
9	Edward Chuang	Exploring and enhancing the metazoan protein-disaggregase system to combat misfolding of FUS and TDP-43
11	Jieliang Wang	Peptide Synthesis and Modification as a Versatile Chemical Tool for Probes Construction

**A special thank you to our poster judges:**

Professor Rahul Kohli  
 Professor Ronen Marmorstein  
 Professor James Petersson  
 Professor Jeff Saven

#	Name	Poster Title
12	Melissa Grenier	Structure-Based Optimization of Small-Molecule CD4-Mimetics: Inhibitors of HIV-1 Cellular Entry and Viral Neutralization Agents
13	Miklos Szantai-Kis	Thioamides: Improved Incorporation Methods and Effects on Protein Stability
14	Saurabh Sudesh	Suppressing A $\beta$ 42 toxicity with potentiated Hsp104 variants in a yeast model of Alzheimer's disease
15	Emily Schutsky	Defining and Exploiting APOBEC3A's Cytosine Deaminase Activity on the Extended Epigenome
16	Jeffrey Kubiak	A small-molecule inducible synthetic circuit for control of the SOS gene network without DNA damage
17	Cristian Ochoa	Synthesis of Bioactive Bisphenols via Oxidative Phenol Cross Coupling
18	Lin Guo	Defining Kap $\beta$ 2 as a protein disaggregase for ALS disease protein: FUS

**Poster Awards will be announced right before the reception.**