Johns Hopkins Chemistry-Biology Interface Graduate Program

15th Annual Retreat

Saturday, September 14, 2019
9:30 a.m. – 4:00 p.m.
Mt. Washington Conference Center
Hosts and Organizers: Lauren Bambarger and Jamie Alley

9:30 - 10:00	**Registration** Coffee and continental breakfast
9:55 - 10:00	**Retreat Welcome,** Room 19
10:00 - 10:20	**"Progress Towards Developing a dCas9-Based Inducible Repressor System"** Shaun Spisak, Ostermeier Lab
10:25 - 10:45	**"An all-to-all approach to identify novel DNA epigenetic readers in humans"** Heng Zhu, Pharmacology and Molecular Sciences
10:50 - 11:20	**Responsible Conduct in Research: "Creating a Healthy Research Environment"** Steve Rokita, Chemistry
11:20 - 11:25	**Group Photo**
11:25 - 12:05	**Poster Session 1 – Room 16 (even number posters)**
12:05 - 12:45	**Lunch – Hayward Dining Room**
12:45 - 1:05	**Team Building Activity – Hayward Dining Room**
1:05 - 1:45	**Poster Session 2 – Room 16 (odd number posters)**
1:50 - 2:10	**"Irreversible Inactivation of DNA Repair Enzyme, Polymerase Beta"** Shelby Yuhas, Greenberg Lab
2:15 - 3:05	**Keynote Lecture: "Chemistry and Biology of Hydrogen Sulfide (H_2S) and Related Hydropersulfides (RSSH)"** John Toscano, Chemistry
3:10 - 3:30	**3 Minute Thesis Competition – Room 19** Shane Byrne, Erica Sinner, James Rives, T.J. Koehler
3:35 - 3:55	**"Understanding how chromatin remodelers reposition nucleosomes"** Greg Bowman, Biophysics
4:00	**Closing Remarks**

Posters

1. Blaze Pharoah (Toscano Lab), "Sulfane Sulfur as a Cardioprotective Agent"

2. Anton Kozyryev and Steven E. Rokita, "A Search for the Rate Determining Step of Iodotyrosine Deiodinase Catalysis"

3. Eric Johansen, Guan-da Syu and Heng Zhu, "Virion Display (VirD) Approach to characterizing Transient Receptor Potential (TRP) channels in Humans"

4. Mohsen Badiee and Anthony K.L. Leung, "Investigating the dynamics of poly(ADP-ribose) by smFRET"

5. Jessica Dunn, Cedric Moore and Heng Zhu, "Connecting trait-associated SNPs to phenotypes using Proteome-Wide Association Studies (PWAS)”"

6. Sea On Lee (Fried Lab), "Progress on Making Circular RNA in E. coli and Yeast Model Systems"

7. Mitchell Porter and Ronald L. Schnaar, "Decoding Cell Surface Regulatory Networks: Ganglioside Interactome Toolkit"

8. Philip To (Fried Lab), "Probing the foldability of the E.Coli Proteome"

9. Marco Jacinto and Marc M. Greenberg, "Bromodomain Recognition of a DNA Damage-Induced Histone Modification"

10. Anneliese Faustino (Fried Lab), "Development of an XL-MS Method for Studying Protein Folding In Vivo"

11. Harrison Greenberg (Rokita Lab), "Probing Reversible DNA Crosslinks with Molecular Machines"

12. Isabel Uribe and Anthony Leung, "Connecting Size to Site: Deconjugation of Enzymatically Labeled Terminal ADP-ribose (dELTA)"

13. Morgan Dasovich (Greenberg and Leung Labs), "Capturing poly(ADP-ribose)-binding proteins with photo-inducible chemistry"

14. Xiongyi Huang, “Bringing new catalytic functions to metalloenzymes”

15. Derek VanDyke, “Immunoengineered therapeutic platform for selective immune cell activation”

16. Stephanie Henriquez and Caren Meyers, “Toward Enhancing Uptake of DXPS Inhibitors in Uropathogenic Bacteria”

17. Sarah Woodson, “RNA folding and regulation”

18. Katelyn Jackson and Scott Bailey, “Recruitment of effector proteins to Cascade R-loop complex”