

3) Provide a short paragraph including both personal and professional biographical information.

Obtained my B.S. degree in Bio. Rutgers University, College at Newark, NJ, as a post-bacc. fellow. Pro.D. degrees in  
Molecular Biology (Bio 501) and General Microbiology (Bio 502), Dept. of Microbiology, University of Illinois at Urbana-Champaign, 2004. Research includes  
activities on the structure and function of bacterial communities in the environment, with a focus on aquatic  
habitats. You can find more information about my work on my lab website  
(<http://kellymicrocolab1.wix.com/kelly>).

\_\_\_\_\_ I live in the city of Chicago in the Andersonville neighborhood, which is  
just a few miles south and west of Loyola. I live with my wife Eva, my 15-  
year-old son Liam, and our dogs Charlie  
and Hank. Charlie is a 6-year-old Labrador retriever and Hank is a 9-month-old St. Bernard.

Women in Science Enabling Research  
Faculty Research Proposal

Faculty Name and Department: Jennifer Mierisch, Department of Biology

Project Title: Exploring the genetic mechanisms regulating gametogenesis

- 1) Please provide a short discussion of your research project and goals for the Summer of 2024. Continued species propagation hinges on the ability of males and females to produce quality sperm and eggs via the process of gametogenesis. The development of sperm and egg occurs via a stepwise process that begins with a germline stem cell that divides mitotically, undergoes meiosis, and completes maturation. This process requires supporting somatic cells that signal to the developing sperm and egg to ensure its proper development. Defects in signaling between the somatic support cells and the developing sperm and egg can arrest this process and lead to infertility. Therefore, characterizing the signals sent and received by each cell type and identifying the downstream outputs of these signals is needed to understand the infertility can arise. My lab is particularly interested in the role of Notch signaling in gametogenesis. Notch signaling in the somatic support cells is needed to pro

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Faculty Name and Department: Robert G. Morrison, PhD Psychology/Neuroscience

Project Title:

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Faculty Research Proposal

Faculty Name and Department Ken Olsen, Department of Chemistry and Biochemistry

Project Title: Molecular Dynamics of Drug-Protein and Drug-Polymer Interactions

1) Please provide a short discussion of your research project and goals for the Summer of 2022  
The projects in my laboratory are computational simulations of molecular interactions

Women in Science Enabling Research  
Faculty Research Proposal

Faculty Name and Department Martina Schmeling, Chemistry and Biochemistry department  
Project Title: Environmental Sampling of Chicago Industrial Corridors

1) Please provide a short discussion of your research project and goals for the Summer of 2022

Industrial pollution is a common occurrence in many urban areas including Chicago which has been a center of industrial production and a major transportation hub for more than a century. Special zones in industrial corridors, have been set aside to accommodate different industries but concerns have grown on the pollution these industrial corridors produce and their impacts on the surrounding neighborhoods. Whereas air pollution is being monitored per state requirement,