**Chemistry-Biology Interface (CBI) Graduate Program**

At Johns Hopkins University, our nation’s first research university, there is a long tradition of scientists conducting research at the interface of chemistry and biology. This tradition was formalized in 2005 with the establishment of the Chemistry-Biology Interface (CBI) Program. Our program is one of the few in the United States that confers a Ph.D. in Chemical Biology. We are also one of about 20 CBI Programs nation-wide that are supported by a National Institutes of Health (T32) Chemical Biology Training Grant.

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**Contact**

Chemistry-Biology Interface Graduate Program

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**Living in Baltimore**

Baltimore is in the midst of an urban renaissance and offers numerous recreational and cultural activities. Harborplace, located along the scenic Inner Harbor, is a striking collection of pavilions and promenades set at the water’s edge. The National Aquarium adjoins Harborplace, as well as Camden Yards, home of the Baltimore Orioles, and M&T Bank Stadium, home of the 2012 NFL Super Bowl champions, the Baltimore Ravens.

There are a number of major museums located within the city including the Walters Art Museum and the Baltimore Museum of Art (adjacent to the Hopkins Campus). The Baltimore Symphony Orchestra offers a range of symphonic and “pop” music at the modern Joseph A. Meyerhoff concert hall. In addition, a variety of festivals and special events occur in Baltimore including the Preakness and Artscape, the largest free public arts festival in the U.S. These events and activities are all conveniently located about 15 minutes from campus.

Baltimore is also near other attractions in the mid-Atlantic region. Washington, D.C. is less than an hour to the south and is home to some of the best museums and cultural offerings in the country. Within Maryland, the Chesapeake Bay and the Atlantic shore offer water and beach activities, while the mountains lie two hours west of Baltimore for skiing in the winter and year-round hiking and camping.

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“I was drawn to the interdisciplinary research and study of the CBI program because I think the solutions to fundamental problems are not found within one discipline; instead, an interdisciplinary approach allows for multiple perspectives to unite under the common banner of scientific inquiry.” – JOSH MONTS, entered 2016

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www.cbi.jhu.edu
The CBI curriculum enables students to individualize their programs to enjoy the desired balance of chemistry, biology and biophysics. CBI graduates are trained to address diverse questions in chemistry and biology using a broad array of experimental methods. Coursework ensures that students have a strong foundation in chemistry in addition to ample knowledge of the biological sciences. The breadth of faculty research and teaching interests enables students to explore many aspects of the Chemistry-Biology Interface. Our curriculum, including writing an original research proposal, is designed to help students develop their analytical skills and the ability to think independently. Peer support and learning are also integral to the educational experience.

Choosing an Advisor
The CBI Program consists of 31 faculty mentors who hold primary appointments in one of nine departments distributed throughout the four Schools of Arts & Sciences, Engineering, Public Health and Medicine at Johns Hopkins. Students carry out research rotations during their first year to expand their research base and assist their selection of a thesis research advisor. Each research rotation is 10 weeks long. CBI students choose an advisor and begin thesis research in May of their first year.

Research Areas Include:
- Enzyme mechanisms, inhibitors, and metabolic pathways
- Synthetic methods and medicinal chemistry
- DNA replication, damage, and repair
- Molecular probes for interrogating biological processes
- Signal transduction and gene regulation
- Cellular communication
- RNA and protein folding
- Chemical tools for biotechnology
- Structural analysis of complex macromolecular assemblies
- Protein engineering and biocatalysis

Admissions
To apply to the CBI Program, you will need to submit:
- an online application (http://grad.jhu.edu/apply)
- undergraduate transcript(s)
- three (3) letters of recommendation
- GRE scores optional

Selected applicants will be invited to visit Johns Hopkins and participate in interviews and information sessions. The CBI Program will arrange these meetings with faculty and students and provide tours of the campus and the environs. The CBI Program is committed to sustaining excellence by fostering a diverse community including underrepresented minority students and students from underserved backgrounds. The program particularly welcomes minority applicants and applicants with disabilities.

We are pleased to announce new opportunities offered by the Vivian Thomas Scholars Initiative:
https://provost.jhu.edu/about/vivien-thomas-scholars-initiative/

Financial Aid
Graduate students are guaranteed full tuition remission, a yearly stipend, and are provided with health insurance. The CBI stipend for 2022-2023 is $34,000 per year.

Want To Know More?
If you are interested in learning more about the CBI Program at Johns Hopkins University, please visit www.cbi.jhu.edu, or contact us. The CBI contact information is provided on the back of this pamphlet.

The structure of the CBI Program allowed me to pursue my own research interests while still being part of an interdisciplinary community.

---- ANTONIETA SALGUERO, ENTERED 2015

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