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What is QCB?

A National Institutes of Health (NIH)-funded Chemistry-Biology Interface (CBI) graduate training program that provides value-added educational opportunities to students in many areas of chemistry who **chose a graduate advisor who is also a trainer in the program.**

Program objective: To provide a broad, interdisciplinary graduate training experience on the **biological side of chemistry**, superimposed on deep, disciplinary training in your major (**e.g.**, organic, analytical, materials, ChemBiol).

Provides exposure to the diversity of the QCB student cohort and presents real opportunities for collaboration and integration. Also, formal leadership opportunities. **GOAL:** Help prepare you for a career that will likely span traditional disciplines.

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September 2024

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QCB Faculty Trainers in Chemistry

We have 28 trainers with appointments in Chemistry (12), Molecular and Cellular Biochemistry (MCB; 3), Biology (7), the Cell Molecular and Cancer Biology Program (2) and the Neuroscience Program (4). Program run by a Steering Committee (Giedroc, Director; Lewis, co-Director).

12 of the QCB trainers are derived from four areas of Chemistry (**all hosted trainee**):

Analytical: **Clemmer, Jacobson**

Chemical Biology: **Dann, Gerdt, Giedroc, Lewis**

Materials/Physical: **Dragnea, Yu, Thielges**

Organic: Brown, **Cook, Pohl, Snaddon**

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What is QCB?

Organized in 2011 with internal funding; first cycle of NIH support 2014-2019; second cycle, 2019-2024, third (current) cycle (2024-2029) matched with College of Arts & Sciences support. SIX NIH slots; **THREE** College slots (the "match").

Set up as an IU Graduate School-approved minor in **Chemical and Physical Biology (CPB)**, and students typically take this sequence in their second year

CHEM 680 (1.5 cr): Introduction to QB and measurement (Giedroc)

CHEM 681 (1.5 cr): Introduction to Chemical Biology I (Widlanski)

CHEM 689 (1 x 2 cr): QCB Journal Club

Electives (3 cr)

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QCB Fellowship Competition

Held in late April of a student's first (or second) year. We support rising second-year students for two years, rising third year students for one year: **\$32,000 (yrs 6-7)**, rising to **\$33,500 (yrs 8-10)**. We draw applicants from all five feeder graduate programs. Make 3-5 awards per year. Currently 19 trainees in the cohort.

****In order to be eligible for the fellowship competition, you must have completed three research rotations. Preference for fellowship appointment is given to US citizen/resident aliens (this is a requirement for NIH funded "slots"), and international applicants are supported with College matching funds.**

Chemistry has an **opt-in** rotation program (consistent with other feeders).

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QCB Student Cohort

This is student-led and student-organized training program (see website!!!!)

*QCB Ambassadors (two student leaders) who drive the student-run activities.
Currently **Andrew Bach** (Snaddon group) and **Averi McFarland** (Winkler group)*

QCB Evenings (4-6 per year)

QCB student-invited seminar series speaker (SISS) program (1-2 per year)

14th annual Watanabe Symposium in Chemical Biology: Saturday, April 12, 2025

Annual program retreat: Saturday, Aug 24, 2024, Switchyard Park, Bloomington

NEW: Off-campus Internships! iuqcb.indiana.edu
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Questions?

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QCB Ambassadors (AY25)

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