QB 827*, Problems in Quantitative Biology*

QB 827*, Problems in Quantitative Biology* (2 credits), will be offered every fall semester. Faculty teams will develop teaching and learning modules that address specific themes (e.g., modeling of various biological processes, genomes and information, and metabolic networks, quantitative approaches of analysis). Each module will be taught from biological and non-biological perspectives, and will promote cross-training and participation of all students. Students will be assigned projects related to the course modules and will be required to design experiments to examine an experimental problem using quantitative approaches. During this course, students will

(i) Function as an interdisciplinary graduate student team and use the opportunity to cross-train each other.

(ii) Propose a strategy to solve an interdisciplinary research problem and demonstrate their ability to apply, analyze, and synthesize information in an interdisciplinary context.

(iii) Meet and interact with many QB faculty members who will be prospective mentors for their interdisciplinary Ph.D. research.