

COMPARATIVE GENOMICS

APPLICATION DEADLINE: APRIL 15, 2012

Graduate Education at the University of Arizona

Supported by a grant from the National Science Foundation program for
Integrative Graduate Education Research and Training (IGERT)

The IGERT Program in Comparative Genomics is an interdisciplinary program designed to provide graduate students with training in the areas of evolution, functional genomics, and computational biology.

Activities

Biweekly Discussion Group

- Research seminars by students and faculty
- Panel discussions on career development and ethics
- Talks by invited speakers

Teaching and Outreach

- Develop a project in collaboration with a local high school teacher
- Introduce students to research based genomics topics
- Teach a unit on biotechnology, genomics and/or evolution

Visting Scientists and Symposia

- Yearly symposia with visiting speakers
- Poster sessions and networking opportunities

Research

“Comparative Genomics” Course

- Lectures and discussions on the basic findings and approaches in comparative genomics
- Hands on training in modern computational methods for genomics and bioinformatics
- Interdisciplinary collaborations on relevant research problems

“Research in Genomics” Course

- Apply the foundation knowledge developed in the “Comparative Genomics course.
- Select a research problem focusing on comparative genomics of closely related organisms
- Prepare samples and clone libraries - generate sequence with 454 pyrosequencing technology
- Analyse and interperate the data
- Publish a multi-authored paper or submit a research grant based on the results

Apply

One-year Fellowship awards include:

- \$30,000/year stipend
- Out-of-state tuition waivers and health insurance
- Research and travel funds

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