

Howard Hughes Medical Institute

Initiative to Colleges -- 2008

Approximately a 1 million dollar proposal

Your HHMI team:

Kate Dayton, Denise Flaherty, David Grove,
Reggie Hudson, Steve Weppner, Laura Wetzel

- **To engage** students in inquiry-based science
- **To prepare** undergraduates, including women and members of minority groups underrepresented in the sciences, for graduate studies, and careers in biomedical research, medicine, and science education.
- **To promote** science literacy in all students
- **To enable** science departments to broaden their expertise in emerging disciplines
- **To support** high-quality, innovative approaches in science teaching
- **To enhance** precollege education by connecting college science departments with K-12 teachers, students, schools
- **To disseminate** successful science education approaches and tools.

Components:

Research – Dayton

Science Education – Wetzel

Biology – Flaherty

Computational Education - Weppner

Computation Modeling Modules for Biology

6-8 will be developed by Cox, Junkin, Weppner and Wetzel in conjunction with biologists and students

These models will be created on readily accessible software and then, if successful, disseminated on the internet

Example: Physics 1

Hire a mathematical biologist

Split Position between biology and math

This position would help develop mathematics courses for biologists with the help of both disciplines

The model for the courses would be Biology 2010