



Marine Biotechnology and Bioinformatics

for Teachers

Summer Institute 2006

Recharge, refresh, and reinvigorate your science curriculum

Explore current marine science research while learning to incorporate stimulating, hands-on biotechnology and bioinformatics activities in your middle or high school science classroom.



As a participating teacher, you will use the latest biotechnology¹ and bioinformatics² techniques to investigate a local marine phenomenon, invasive mussels. During the summer institute, you will generate novel DNA data and analyze it using bioinformatics software. You'll also explore pedagogical strategies and develop standards-based lesson plans for engaging students in the same marine science research.

¹ the use of living organisms or their products to make or modify a substance or process

² the use of computers to store, retrieve and analyze biological data



Summer Institute Overview

- **Immerse yourself** in a three week, cutting edge science program on the California central coast
- **Be a scientist** and do practical science
- **Participate** in comprehensive lectures, lab research, and activities that you can incorporate into your science classroom
- **Develop and implement custom standards-based lesson plans** with expert instructional assistance during the institute and the following academic year
- **Create your own instructional resources** using institute materials
- **Implement bioinformatics, biotechnology, and webcasts** in your classroom with an institute researcher
- **Earn continuing education units**
- **Earn a stipend** (lodging provided for those traveling over 60 miles)

July 10 – 28, 2006

9:00 am – 5:00 pm (Monday – Friday)

Locations

California State University Monterey Bay (CSUMB), Monterey, CA and Moss Landing Marine Laboratories (MLML), Moss Landing, CA

To apply

For application materials or for more information, visit the program website at <http://teach.mlml.calstate.edu> or contact Ms. Traci Conlin at tconlin@mlml.calstate.edu, (831) 771-4472.

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