BIOTEACH 2005
A SUMMER LAB EXPERIENCE

Bringing Molecular Biology into Focus

For High School Teachers

CORD
THE UAB CENTER FOR COMMUNITY OUTREACH DEVELOPMENT
WHAT IS BIOTEACH?

- Preparation for translating cutting-edge science into exciting hands-on experiences for your high school classroom.

- A four-week interactive laboratory course that explores modern concepts in cell and molecular biology.

- A lecture series in which internationally recognized UAB researchers probe the scientific basis of AIDS, Tuberculosis, Cancer, Forensic Medicine, Tropical Diseases, Neurobiology, Human Genetics, Sickle Cell Anemia, and Ethical Issues in Genetic research.

- Hands-on training in bacterial genetics, mutagenesis, DNA cloning, gel electrophoresis, polymerase chain reaction, DNA sequencing, forensic analysis, and applications of molecular biology are stressed.

- A mechanism that will allow you to access scientific modules for your classroom that will be supported and facilitated by CORD.

- A forum in which teachers interact daily with UAB researchers, develop new laboratory skills, begin to develop their own hands-on experiences for the classroom and learn firsthand about the exciting advances being made in biotechnology.
WHO HAS BEEN TEACHING BIOTEACH?

Jeffrey Engler, PhD, BioTeach Director
Department of Biochemistry
And Molecular Genetics

Ronald Acton, PhD
Department of Microbiology

Dale Benos, PhD
Department of Physiology and Biophysics

Larry Delucas, PhD
Center for biophysical Sciences and Engineering

Vincent Escuyer, PhD
Southern Research Institute

Lauretta Gerrity, DVM
Animal Resources Program

Steve Hajduk, PhD
Marine Biological Laboratory

Kenda Rigdon, PhD
Department of Microbiology

Peter Prevelige, PhD
Department of Microbiology

Julian Rayner, PhD
Department of Geographic Medicine

Kelly Ross-Davis, MS
Department of Medicine-Infectious Diseases

Harald Sontheimer, PhD
Department of Neurobiology

Eric Sorscher, MD
Department of Medicine

Tim Townes, PhD
Department of Biochemistry and Molecular Genetics

Janet Yother, PhD
Department of Microbiology

CORD FACULTY

J. Micheal Wyss, PhD
Laura Cotlin, PhD
David Radford, Ph.D
Ryan Reardon
Mary Williams, PhD
WHO TAKES BIOTEACH?

High School Science Teachers Who:

- Currently teach in the biological or life sciences.
- Have a strong desire to learn more about cell and molecular biology and its application in the classroom.
- Have much, little or no experience in molecular biology.
- Come from school districts throughout Alabama

WHO SUPPORTS BIOTEACH?

- Major support for BioTeach is provided by UAB’s Center for Community OutReach Development (CORD) in conjunction with the McWane Center and the Birmingham City Schools. This year it is made possible by a grant from the Alabama Commission on Higher Education.
- UAB faculty, staff, graduate students, and postdoctoral fellows.
BIOTEACH 2005

- BioTeach 2005 will begin on July 5th and conclude on July 29th.

- BioTeach classes will meet at: McWane Center 200 19th Street North Birmingham, Alabama

- Lectures begin at 9 AM followed by lab, which generally ends around 5 PM.

- 3 or 6 Graduate credit hours for BioTeach may be applied for at the student’s expense.

- BioTeach graduates are invited to bring their high school classes to participate in the GENEius Lab at McWane Center.

- BioTeach graduates have access to several Modules equipped with supplies and reagents for students to perform microbiology and molecular biology inquiry-based experiments in their own high school classrooms.

- Deadline for applications is March 25th.

- Notification of acceptance will be mailed in early April.

CORD
empowering rising stars
FOR FURTHER INFORMATION CONTACT

Kit Hodge
UAB Center for Community OutReach Development
Community Health Services Building
5th Floor
933 19th Street south
Birmingham, AL 35294-2041

Phone: (205) 934-5171
FAX: (205) 975-4725
Email: khodge@uab.edu

We’re on the web at
www.uab.edu/cord

Jeffrey Engler, Ph.D., BioTeach Director
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