

Biotechnology Teacher Support Network 2008 Kit Training Dates

These FREE workshops and supporting equipment loan programs are open to secondary science teachers throughout the greater Sacramento Valley region.

Biotechnology Basics & Transformation Techniques

June 18 – 19, 2008

8:30 am – 4:00 pm *Breakfast, lunch, and parking provided*

UC Davis – 103 Hutchison Hall

This session is for teachers interested in joining the biotechnology equipment loan program or for teachers who would like a review of lab techniques. The training covers both the Basic Biotechnology and Transformation kits for teacher loan. Labs for the Basic Biotech Kit include DNA extraction, micropipet technique, and gel electrophoresis. You will also learn about the process of transformation by inserting a jellyfish gene coding for a green fluorescent protein into bacteria. Throughout the workshop, we will cover techniques, applications, and bioethics

Plant Protein Fingerprinting

July 8 – 9

9:00 am – 2:00 pm *Breakfast, lunch, and parking provided*

UC Davis – 103 Hutchison Hall

Learn how to extract plant proteins and run a vertical polyacrylamide gel to separate plant proteins.

The workshop is not currently supported by a companion kit

Introduction to PCR

August 5 – 6, 2008

9:00 am – 12:00 pm *Breakfast, lunch, and parking provided*

UC Davis – 103 Hutchison Hall

DNA extracted from your own cheek cells will be amplified using polymerase chain reaction and run on an agarose gel. Results will then be analyzed and the use of Cold Spring Harbor's allele server discussed.

The PCR workshop requires past participation in a biotechnology workshop and familiarity with techniques such as micropipetting, electrophoresis, and DNA extraction.

After attending one of the above training sessions, teachers are eligible to borrow the biotechnology kit specific to the workshop. These kits include all the equipment, chemicals, and consumables necessary to perform the experiments conducted in the workshops with your students. To register, or for further information, contact:

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**Workshop space is limited –
register early to reserve a slot.**

Register on-line at: <http://ppge.ucdavis.edu/Teacher/events.cfm>