



*Excellence and innovation in
contemporary bioscience
education.*

2010
TEN YEARS
ON

DNA MANIPULATION: TOOLS AND TECHNIQUES

This program offers a comprehensive overview of the structure and function of DNA and the application of various tools and techniques used to manipulate DNA in scientific research.

Task 1:

Students perform a restriction digest of Lambda DNA using EcoRI, HindIII and BamHI. Students gain skills in utilising research grade equipment as they run a restriction digest of Lambda DNA, perform gel electrophoresis to sort and visualise their DNA fragments and present data to analyse the fragment sizes produced by each restriction enzyme.

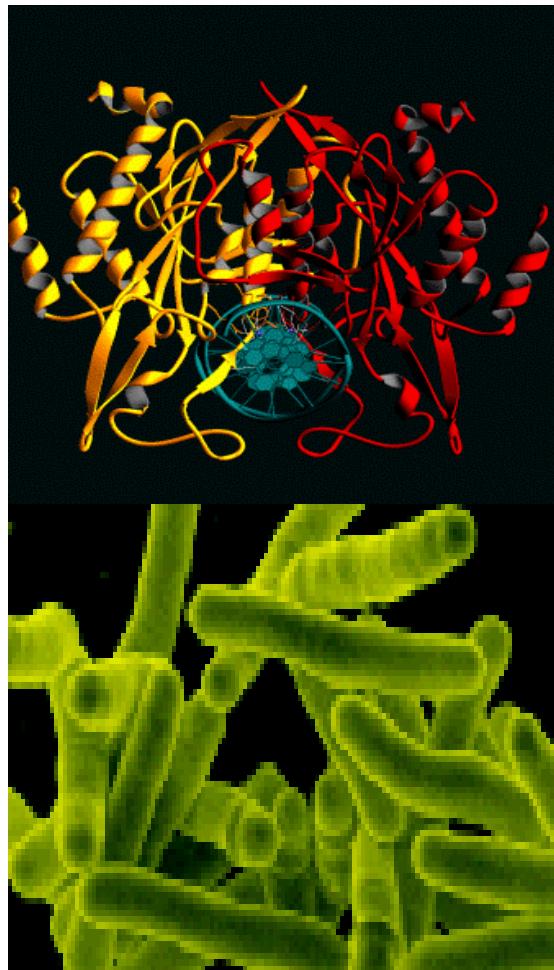
Task 2:

Students use a recombinant plasmid vector to transform competent *E. coli* cells and plate out cells onto selective media to determine if their transformation has been successful.

Program features:

Lecture on biological concepts.
Pre-laboratory lecture.
Laboratory tasks guided by a scientist mentor.
Lunch at the University of Melbourne.
School assessed coursework provision.

Scheduling: Term 3



YEAR LEVEL: UNIT 4 VCE BIOLOGY,
BOOKING CODE: VCE 401
STANDARD RATE \$25-00/STUDENT

Contact Administrative Assistant for booking enquiries :
E-mail : gtac@gtac.edu.au or Phone 03 9340 3600