



*Excellence and innovation in
cell and molecular biology
teaching and learning*

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.

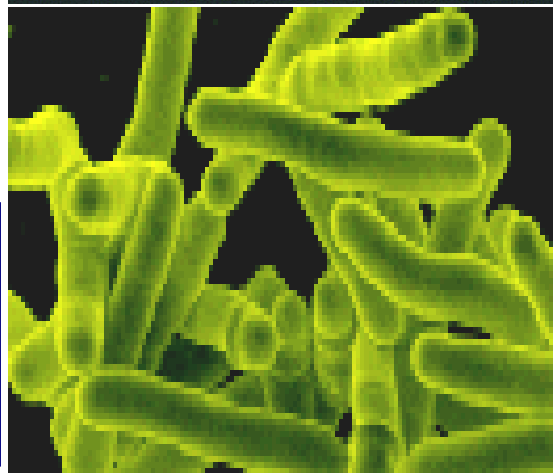
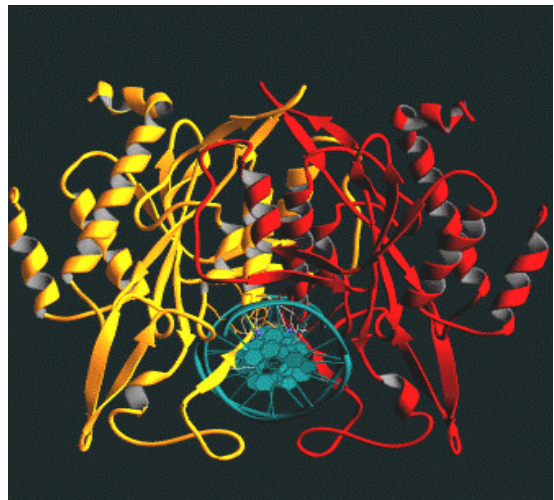
Task 1: Students perform a restriction digestion to identify a plasmid containing the gene for green fluorescent protein. Students gain skills in utilising research grade equipment as they perform the restriction digest and gel electrophoresis to sort and visualise their DNA fragments.

Task 2: Students use a recombinant plasmid vector to transform competent *E. coli* cells and make them produce green fluorescent protein. They plate the cells onto selective media to determine if the 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
email: gtac@gtac.edu.au or Phone: 03 9340 3600