



Excellence and innovation in contemporary bioscience education.

2010
TEN YEARS
ON

RESTRICTION DIGEST OF LAMBDA DNA & EXPLORING TWO INDEPENDENTLY ASSORTING CHARACTERISTICS IN *ZEAMAYS*

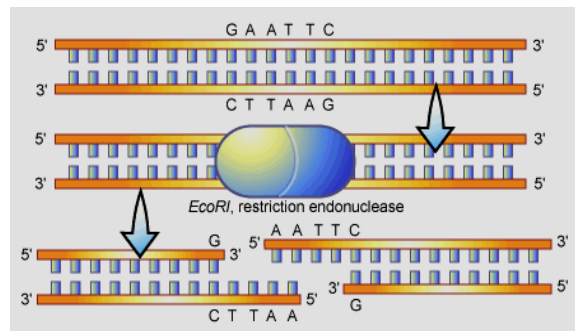
This program provides material for the subsequent completion of both mandated school assessed coursework tasks in Outcome 1, Unit 4 VCE Biology.

Task 1

Students perform a restriction digest of Lambda DNA using EcoRI, HindIII and BamHI. 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. 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 apply their genetic language and explore the inheritance of two independently assorting characteristics in *Zea mays*. They collect data to determine phenotypic ratios in the F2 generation and compare their results to expected ratios. This task also provides the opportunity to consolidate their understanding of chromosome behaviour during meiosis.



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 402
STANDARD RATE \$25-00/STUDENT

Contact Administrative Assistant for booking enquiries:
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