



Excellence and innovation in contemporary bioscience education.



RESPONDING TO CHEMICAL SIGNALS

This program offers students a comprehensive overview of the nature of chemical signalling in the context of the stimulus response model.

Students discover how molecules such as neurotransmitters, hormones, pheromones and plant growth regulators initiate cellular responses through their interactions with extracellular and intracellular receptors. The principles of homeostasis and signal transduction pathways are explained.

Using research quality equipment students perform two tasks;

Task 1:

Investigating the effect of differing auxin and cytokinin concentrations on plant tissue culture growth.

Task 2:

Investigating the effect of differing ampicillin concentrations and differing nutrient media on the growth of bacteria.

On completion of this program students will have the knowledge and data to complete either a summary report of a plant response to chemical stimuli or a summary report related to bacterial response to chemical stimuli as part of the school assessed coursework for Unit 3 Biology.



Program features:

A lecture on chemical signalling.
Pre-laboratory lecture on experimental techniques.
Laboratory tasks guided by a scientist mentor.
Lunch at the University of Melbourne.
School assessed coursework provision.

Scheduling: Term 2

YEAR LEVEL: UNIT 3 VCE BIOLOGY
BOOKING CODE: VCE 302
STANDARD RATE \$25-00/STUDENT

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