# 8 Biology Olympiad Programme

## Wednesday 21 June 2023

## (Event Programme Subject to Change)

Building on the success of the previous 8 years, Edge Hill is organising the
9th Biology Olympiad. This competition is aimed at AS Level Biology students who plan to progress to A Level. The Olympiad will test Biological knowledge and skills whilst giving a taste of studying at undergraduate level. Planned activities are synchronised with the Biology A/AS Level syllabus, to build on Year 12 through to Year 13 and each will include a short introductory piece. These include:

**Genetics and Molecular Biology:**In this activity, teams will use a standardised protocol to extract DNA from cells. Marks will be awarded for quality of work and quantity of extracted DNA.

**The importance of Biodiversity:** In this activity, the teams will test their identification skills, which is the initial step in understanding biodiversity. This practical will test and develop these skills in biological identification in a fun way.

**Tropical Plant Physiology:**In this activity, teams will measure the leaf surface area of tropical plants and estimate their total water loss over 24h. Marks will be awarded for the fastest and most accurate team.

**Tissue Identification:**In this activity, teams will receive already stained tissue samples and will need to identify them under the microscope. Marks will be awarded based on accuracy of identification.

## Schedule:

09:45-10:00 Arrival and Welcome – *Tech Hub foyer*

10:00-11:30 Competition Activities - *Biosciences*

11:30-12:10 Lunch–*Biosciences foyer*

12:10-13:30 Competition Activities – *Biosciences*

13:30-14:00 Campus Tour with current students

14:00-14:30 Results and Prize Giving – *Tech Hub Lecture Theatre*

For more information and to book places, please contact educationliaison@edgehill.ac.uk or call 01695 584388.