



Dissecting DNA (E1BIL001W-1)

Introduction	<p>Genetics is a field biology studying genes and heredity of organisms. This workshop explores the fundamental concepts of genetic material (DNA) and its role in regulation of body functions and diseases. The workshop introduces basic genetics and genetic diseases in lecture and activities. Students would perform DNA extraction with reagent and centrifugation and would learn about the principles of the DNA replication technique (PCR) with other hands-on activities.</p> <p>This programme is the same as Genetics Workshop (Level 1): Dissecting DNA (SCIP1222) in 2019/20 school year.</p>
Programme Type / Level	Genetics Workshop (Level I) (Token-required)
Instructor(s)	Dr YUE Ying Kit Patrick
Pre-requisite	No special prerequisites are needed
Target Participants	<ul style="list-style-type: none">➤ P4 to P6 HKAGE student members only in 2020/21 school year➤ Class size: 30
Medium of Instruction	Cantonese with English handouts
Certificate	<p>E-Certificate will be awarded to participants who have:</p> <ul style="list-style-type: none">❖ Attended ALL sessions; AND❖ Completed all the assignments with satisfactory performance
Intended Learning Outcomes	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none">1. describe the nature, functions and roles of DNA;2. explain the basic concept of genetics;3. apply PCR technique on DNA extraction and replication;4. develop a mindset of significance of genetic defect in diseases development and how we can keep our genes healthy.5. Students will be able to identify the moral and ethical issues in genetic engineering and hence critically evaluating the development of related technology.
Application Procedure	<p><u>This programme is Programmes with No Screening</u></p> <p>There are no screening questions, written test or other screening methods for this type of programmes.</p> <ul style="list-style-type: none">● Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1st priority, 2nd priority, 3rd priority, etc). 1 token is required for each programme (For programme list, please refer to the issue 22 of Gifted Gateway (click here));● The application can only be submitted once. After submission of the application, the programme selection and the priority cannot be changed;● If a student member removes a programme from the application before the application deadline by withdrawal, the choice priority will remain unchanged. (For example: A student has selected three programmes and removed the programme with the 1st priority from the application. The choices of 2nd and 3rd priority will remain unchanged with no promotion in priority).● We will select the students based on the student's choice of priorities and a randomly generated selection by the computer system. If there is time clash between the applied programme and other programmes with offer, HKAGE will consider if the application will be accepted;● Student members should avoid applying programmes with time clash;● The decision of HKAGE on the result of selection should be final.

Application

23 Apr 2021 12:00 n.n. Application Result Release Date

30 Apr 2021

Deadline

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

Schedule

Session	Date	Time	Venue
1	19 Aug	9:00 a.m. – 12:00 n.n.	Physics Lab (4/F, Main Building)
2		1:00 p.m. – 4:00 p.m.	Buddist Kok Kwong Secondary School

Sha Kok Estate, Shatin ([Map](#))

Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101
After language selection, press "1".

SCIENCES

科學