



Dissecting DNA (SCIP1222)

Introduction

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.

Programme Type / Level

Genetics Workshop (Level 1) ([Token-required](#))

Instructor(s)

Dr. Yue Ying Kit Patrick and other instructors
(Department of Biology, Hong Kong Baptist University)

Pre-requisite

No special prerequisites are needed

Target Participants



- P4 to P6 HKAGE student members only in 2019-20 school year
- Class size: 60
- * First-come, first-served

Medium of Instruction



Cantonese with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **ALL sessions**; **AND**
- ❖ Completed all the assignments with **satisfactory performance**

Intended Learning Outcomes



Upon completion of the programme, participants should be able to:

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.

Application Deadline

10 Feb 2020, 12:00 n.n.

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule



Session	Date	Time	Venue
1	14 Apr	10:00 a.m. – 1:00 p.m.	Hong Kong Baptist University
2	24 July	2:00 p.m. – 5:00 p.m.	Online lecture
Cancelled	28 July		Platform to be used: Zoom Meeting

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".