

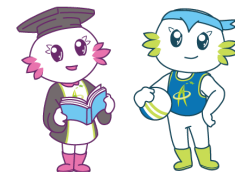


香港資優教育學苑

The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助

Subvented by the Education Bureau, the Government of the HKSAR



[Learn about Gigi & Yoyo](#)

E3BTE005C

[\(Token- required\)](#)

[Gifted Programme]

Biotechnology Course (Level III)

Microbes behind Environmental and Public Health

Dr YUE Ying Kit

Senior Lecturer in the Department of Biology, Faculty of
Science, HKBU



Application Deadline
20 Jul 2026 12:00 noon

Result Release
23 Jul 2026

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. demonstrate an understanding of germ microbiology and key ideas in global disease burden, personal hygiene, and public health;
2. carry out analytical investigations into microbial studies using appropriate scientific methods;
3. examine various approaches to disinfection, their mechanisms of action, and their relative effectiveness;
4. reflect the importance of public health, personal hygiene and global disease burdens;
5. encourage awareness of global disease burdens, the importance of public health, and the practice of personal hygiene.

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

◆ Gifted Programme Introduction

A pandemic is the worldwide spread of a disease. Common examples include smallpox, tuberculosis, and influenza. In recent years, both seasonal and pandemic influenza have become a concern, as they can cause infections in all age groups and could result in unpredictable social and economic impacts. As recommended by the WHO, keeping good personal hygiene is one of the effective ways for the prevention of communicable diseases. For instance, in the recent case of COVID-19, wearing a mask and washing hands are always emphasised as necessary practices for minimising the risk of infection. In this course, basic concepts of microbes, hygiene, and global disease burden will be overviewed. Students will also have hands-on experiences for examining the microbes on the human body and environment and evaluating the functions of different models of degerming, disinfection and sterilisation.

This programme is under collaboration with the Faculty of Science, Hong Kong Baptist University.

◆ Schedule

Session	Date	Time	Venue
1	4 Aug	9:30 a.m. – 12:30 p.m.	Hong Kong Baptist University (Classroom to be confirmed)
2	4 Aug	2:00 p.m. – 4:00 p.m.	
3	6 Aug	9:30 a.m. – 12:30 p.m.	
4	6 Aug	2:00 p.m. – 4:00 p.m.	

◆ Suitable for

- S3 to S6 HKAGE student members in 2025/26 school year
- Class size: 30

◆ Pre-requisite

Students should be able to:

- Students with a primary interest in biology, biotechnology, and biomedical science;
- Biology knowledge of S3 or above level is recommended

◆ Medium of Instruction

English with English Handouts

◆ Screening

Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of biotechnology in the screening question can be enrolled in the programme

◆ Certificate

E-Certificate will be awarded to gifted students who have:

- attended at least 3 sessions; and
- completed all the assignments with satisfactory performance