



A3BTE003C

(Token- required)

Biotechnology Course (Level III)

Biotechnology Laboratory: From Classic to Frontiers (Phase III)

Instructors from Creative Education Unit, The Hong Kong Federation of Youth Groups



**Open for Phase II
students only**

Intended Learning Outcomes

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

1. elaborate the extended knowledge in biotechnology, including protein analysis and gene editing, etc;
2. earning experience of molecular biological experiments, including Western Blotting and CRISPR/Cas9;
3. search and study biotechnology journal or news;
4. raise self-learning attitude, teamwork and presentation skills.

◆ Introduction

The programme consists of three phases. There are 4 sessions in Phase III that equip students' extended knowledge in molecular biology, genetic engineering and biotechnology. Participants will learn how to use various experimental equipment and skills through hands-on practical, including Western Blotting and CRISPR/Cas9. In order to enhance research and presentation skills, participants will conduct a review on a specific topic in depth. A self-learning platform will also be provided to boost participants' related extension knowledge through updated news and journals.

This programme is organized by Creative Education Unit (CE) of the Hong Kong Federation of Youth Groups (HKFYG), which offers interactive exploratory learning platform with wide ranges of programmes for 15 years, including STEM workshops, carnivals, talent trainings, competitions and scholarships.

◆ Schedule

Session	Date	Time	Venue
1	2 Dec	10:00 a.m. – 1:00 p.m.	Room 210, 2/F, 5W Building, Phase 1, Hong Kong Science Park, N.T. (Location)
2	9 Dec	10:00 a.m. – 1:00 p.m.	
3	16 Dec	10:00 a.m. – 1:00 p.m.	
4	16 Dec	2:00 p.m. – 5:00 p.m.	

Total 12 hours of pre/post class self-learning on online platform is required on during 27 Nov – 1 Dec, 4-8, 11-15 Dec

◆ Target Participants

- Students in Phase II (A3BTE002C) are enrolled to phase III automatically
- Class size: 24

◆ Certificate

E-Certificate will be awarded to participants who have:

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

◆ Medium of Instruction

Cantonese with English Handouts
(Supplemented with Chinese)