

賽馬會「知情達意育優才」計劃

Jockey Club Gifted in Bloom--Harmony in Heart & Mind Programme

Biotechnology I Course (Level 4): Cancer-From Beginning to End (TECS2603)

Introduction

A whole new academic programme sponsored by the Jockey Club "Gifted in Bloom – Harmony in Heart & Mind" Programme shifting the focuses from "cognitive (knowledge)" to "affective (sensitivity, reflection, understanding, appreciation, expression, self-exploring, moral values, etc.)" aspect is now open for application! We hope that you will become knowledgeable as well as sensible, to feel other people's feeling, to sense other people's emotion, and step into others' shoes, becoming a person with "empathetic understanding" skills! Moreover, we hope you can locate yourself in the fantastic world and project your visions to a greater future!

According to WHO findings, Cancer is the second leading cause of death globally and is responsible for an estimated 9.6 million deaths in 2018. Our living environment is full of contamination such as poisons, additives, heavy metal or pesticides present in the food contents and drinking water, and particular matters suspend in the air. All these would be the primary cause of disease. Apart from these, studying and working pressure has become our concern since it could be a chronic inducing factor of many diseases. In this course, we are planning to use a holistic approach to have an overview on cancer. Basic concepts of cancer development, carcinogenesis, classification, treatment, etc. will be introduced. Moreover, some new trends of cancer treatment (e.g. targeted therapy, hormonal therapy, immunotherapy) will be introduced and discussed. For the practical sections, two experiments be prepared for training student's hands-on skill in cancer research. Experiments are designed to demonstrate the anti-growth and anti-spreading effect of conventional anti-cancer drugs. To enhance students' understanding about the concept of cancer-related social and moral issues, topics such as keeping quality life of cancer patient, pros and cons of personalised medication, theory and practice of palliative care, etc. will be explored.

Programme Type /Level

Biotechnology I Course (Level 4) ([Token-required](#))

Instructor(s)

Dr YUE Ying Kit Patrick, Lecture I, Department of Biology, Hong Kong Baptist University.

Target

S4 to S6 HKAGE student members

Class size: 30

Participants



Students should be able to make commitment, be responsible to oneself as well as to the world, and willing to discuss, elaborate, present their in-depth thoughts.

Medium of Instruction



English with English handouts

Certificate



Certificate will be awarded to participants who have:

- ❖ Attended **at least 3 sessions; AND**
- ❖ Completed all the assignments with satisfactory performance

Intended Learning Outcomes



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

1. Acquire the fundamental knowledge of causes and development of cancer (e.g. carcinogenesis and tumorigenesis), and cancer treatments (e.g. conventional anti-cancer drugs, new trends like targeted therapy and etc.);
2. Enrich their practical skills on doing anti-cancer drug experiments (proliferative assay and cell migration assay);
3. Building understanding to cancer-related social and moral issues (e.g. quality of life, life extension, palliative care, etc.).

Screening



Please answer the screening question in the online application form.

* The screening question is designed to help the applicant understands 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 fundamental understanding of the biotechnology in the screening question can be enrolled in the programme.

Application Deadline

6 June 2019
(Before 12:00 noon)


Application Result Release Date


21 June 2019

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

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Schedule 	Session	Date	Time	Content	Venue
	1	1 August 2019 (Thu)	10:00 a.m. – 1:00 p.m.	<ul style="list-style-type: none"> ● Introduction and safety briefing ● Experiment – drug test (anti-metastasis study) 	Hong Kong Baptist University (TBC)
	2		2:00 p.m. – 5:00 p.m.	<ul style="list-style-type: none"> ● Cancer development ● Cancer diagnosis and treatment ● Personalised medicine ● Targeted therapy ● Presentation and debriefing 	
	3	2 August 2019 (Fri)	10:00 a.m. – 1:00 p.m.	<ul style="list-style-type: none"> ● Experiment – drug test (anti-growth study) 	
	4		2:00 p.m. – 5:00 p.m.	<ul style="list-style-type: none"> ● Special care of cancer patient ● Palliative treatment ● Quality of life ● Presentation and debriefing 	

Enquiries  For enquiries, please contact us at 3940 0514 or jc@hkage.org.hk.