LIFS 4820: Entrepreneurship in Biotechnology (Fall 16/17)

Lecturer: Prof. Karl Tsim (Course Director) Rm 5456 X-7332
Tutor Dr. Wing Leung (lkwing@ust.hk) Rm 6145 X-7338
Time: Tuesday 12:00 – 13:20 Rm 1505
Thursday 12:00 – 13:20 Rm 1505

Text Book: Biotechnology Entrepreneurship Shimasaki et al 2014 Elsevier
Introduction to Biotechnology Thieman et al 2014 Pearson
Web site at http://lmes2.ust.hk/portal#

Intended Learning Outcome:

• Explain the scientific principles underpinning those biotechnological innovations which achieve and maintain the competitiveness of biotechnology enterprises.
• Apply biotechnological knowledge to solve problems in the management and operation of entrepreneurship in the biotechnology industry.
• Critically evaluate biotechnology product ideas and determine which ideas may be suitable for commercialization.
• Analyze international journal articles and evaluate contemporary biotechnological innovations.
• Work and coordinate effectively in a team to research, prepare and deliver a business proposal and communicate this effectively to a lay audience.
• Apply standards and conventions relating to social responsibilities and ethical practices in a biotechnology enterprise.

Mid-term (open book) Assessment: 40%
Project and Presentation: 60%

Topics Time Lecturer
1. An overview 1/9 TSIM
2. The biotechnology century and its workforce 6/9; 8/9 TSIM
3. The biotechnology industry: an engine of innovation 13/9; 15/9 TSIM
4. What is biotechnology entrepreneurship? 20/9; 22/9 TSIM
5. Essential elements for growing biotechnology cluster 27/9; 29/9 TSIM
6. Biotechnology in Hong Kong and Greater China 4/10; 6/10 TSIM

Mid-term Assessment 11/10 TSIM/LEUNG
7. Money for a business-Where; When and How? 13/10; 18/10  LAW
8. The writing of a business plan 20/10;  GUEST
9. Visit 25/10  GUEST
10. An example of business in Hong Kong 27/10  GUEST
11. An example of business in Hong Kong 1/11  GUEST
12. An example of business in Hong Kong 3/11  GUEST
13. An example of business in Hong Kong 8/11  GUEST
13. Visit 10/11  GUEST

Presentation (Final Assessment) 15/11  TSIM/LEUNG
17/11; 22/11  TSIM/LEUNG
24/11; 29/11  TSIM/LEUNG