LIFS 4820: Entrepreneurship in Biotechnology (Fall 18/19)

Lecturer: Prof. Karl Tsim (Course Director)  
Tutor: Dr. Wing Leung (lkwing@ust.hk)  

Time:  
Monday 15:00 – 16:20  
Friday 10:30 – 11:50  

Text Book:  
Biotechnology Entrepreneurship  Shimasaki et al 2014  Elsevier  
Introduction to Biotechnology  Thieman et al 2014  Pearson  

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  
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1. An overview  | 3/9; 7/9 | TSIM  
2. Spin-off company from HKUST- GVN  | 10/9 | DRs. WONG/LEUNG  
3. Commercial landscape of HK biotech- 2018  | 14/9; | DR. LAW  
4. Introduction of design thinking and lean startup  | 17/9 | DR. LAW  
5. The biotechnology century and its workforce;  | 21/9 | TSIM  
6. Biotechnology industry: an engine of innovation  | 24/9 | TSIM  
7. What is biotechnology entrepreneurship?  | 28/9; 5/10 | TSIM  
8. Essential elements for growing biotechnology cluster  | 8/10; | TSIM  
9. Visit to a biotech industry  | 12/10 | TSIM/LEUNG  

Web site at http://lmes2.ust.hk/portal#
10. Establishing a business (Health Drink) in Hong Kong 15/10 Dr. CHAN
11. Biotechnology in Hong Kong and Greater China 19/10, 26/10 TSIM

**Mid-term Assessment** 22/10 TSIM/LEUNG

12. Introduction of business model generation-I 29/10 Dr. LAW
13. Introduction of business model generation-II 2/11 Dr. LAW
14. Visit to local food industry 5/11 DR. LEUNG
15. Establishing a business in Hong Kong 9/11 TSIM
16. Establishing a business in Hong Kong 12/11 TSIM
17. Establishing a business (consulting) in Hong Kong 16/11 Dr. TAM
18. Establishing a business (consulting) in Hong Kong 19/11 Dr. TAM
19. Visit/Conclusion 23/11 TSIM

**Presentation (Final Assessment)** 26/11 TSIM/LEUNG

30/11 TSIM/LEUNG