

## Syllabus for Spring 2020, Institute of Biopharmaceutical Sciences

Course title: **Drug Development 101 in Academia (學界藥物開發入門)**

Course descriptions: We in academia have focused on advancing scientific understanding through basic research and counted on the biopharmaceutical industry to translate promising discoveries into new therapeutics. Given the recent developments, however, this paradigm needs to change. This course will teach the SPARK approach at Stanford University. In short, translating discoveries from bench to bedside is a challenging, but incredibly rewarding process, allowing us to advance scientific discovery and ensure that our government-funded research translates into improved health for our society.

Time and Dates : as listed	Location: 1st floor BPS classroom, Biomedical Building	Contact: Chi-Ying Huang (黃奇英) 02-28267904
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Date	Topic	Hour	Instructor
03/03 (Tue) 10:10-12:00	1. SPARK: from academic to commercialization 2. Introduction to the SPARK Approach at Stanford University	2	Chi-Ying Huang (黃奇英)
03/04 (Wed) 08:10-10:00	1. A Practical Guide to Drug Development in Academia-Getting Started 2. Pitch the project via SPARK Approach	2	Chi-Ying Huang (黃奇英)
03/09 (Mon) 08:10-10:00 12:00-14:00	1. ALDH2 as a therapeutic target for precision medicine 2. ALDH2 for public health education and precision cancer prevention 3. Pitching 101	4	Che-Hong Chen (Stanford University)
03/25(Wed) 08:10-10:00	Discovery and Preclinical Work	2	Chi-Ying Huang (黃奇英)
04/01 (Wed) 08:10-10:00	A Practical Guide to Drug Development in Academia-Preparing for the Clinic	2	Chi-Ying Huang (黃奇英)
04/08(Wed) 08:10-10:00	A Practical Guide to Drug Development in Academia-Transferring Technology & Commercialization and Entrepreneurship	2	Chi-Ying Huang (黃奇英)
04/15 (Wed)	A Practical Guide to Drug Development in	2	Chi-Ying Huang

08:10-10:00	Academia- Commercialization and Entrepreneurship		(黃奇英)
04/23 (Wed) 08:10-10:00	Exam-Writing Target Product Profile (TPP)	2	Chi-Ying Huang (黃奇英)
Text book: A Practical Guide to Drug Development in Academia-The SPARK Approach			
Evaluation: Pitch the project, presentation, and report.			