

Phytochemistry and Herbal Medicine_2026

(Joint course of MBAS & CBMB, TIGP)

Coordinator: Lie-Fen Shyur (徐麗芬), Distinguished Research Fellow

Agricultural Biotechnology Research Center, Academia Sinica

Place (地點): Agricultural Technology Building Room A236, Academia Sinica

(中央研究院農科大樓 2 樓, Room A236)

Time (時間): Monday, 10:00 ~ 12:00noon (星期一 10:00 ~ 12:00noon)

Credit (學分): 2 credits (Elective course)

Date	Topics	Lecturers
9/07	1. Current trend of herbal medicine and botanical drug R&D	Lie-Fen Shyur
9/14	2. Classification/characterization of plant-derived active pharmaceutical ingredients (APIs)	Shih-Chang Chien
9/21	3. Mass spectrometry-based molecular networking in herbal medicine R&D	Chun-Han Su
10/05	4. Integrative “Omics” technology in natural medicine research	Lie-Fen Shyur
10/12	5. Tissue culture technologies in medicinal plant application	Choun-Sea Lin
10/19	6. Metabolic engineering of plant-derived APIs	Hieng-Ming Ting
11/02	7. From disease models to metabolomic discovery: translational strategies for therapeutic intervention and aging research	Chung-Chih Yang
11/09	8. Phytonutrients in sports medicine and exercise science research	Chi-Chang Huang
11/16	9. Mid-term Exam. (oral presentation)	Lie-Fen Shyur
11/23	10. Animal models for pharmacological study of plant-derived APIs	Yu-Chuan Liang
11/30	11. Herbal medicine and gut microbiota re-education for disease prevention	Tai-Na Wu
12/07	12. Phytocompounds and human immune diseases	Hui-Ming Chen
12/14	13. Immunoadjuvant therapy for human disease	Yu-Ling Lin
12/21	14. Systems biology and holistic approaches to study herbal medicine against cancer metastasis	Pei-Wen Hsiao
12/28	15. Final Exam. (written proposal)	Lie-Fen Shyur