

## Module Information

2022.01, Approved

### Summary Information

Module Code	5503YAUBIO
Formal Module Title	Analysis of Medicinal Plant Ingredients
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

### Partner Teaching Institution

Institution Name
Yunnan Agricultural University

### Learning Methods

Learning Method Type	Hours
Lecture	56

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

### Aims and Outcomes

Aims	The module aims to provide students with an opportunity to analyse and study the internal components of traditional Chinese medicine plants by physical and chemical test methods, so as to provide scientific basis for the development and utilisation value of some traditional Chinese medicine plants.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Explain the basic theory and concept of pharmaceutical plant component analysis.
MLO2	2	Discuss the application of analysis of medicinal plant ingredients in pharmaceutical research and the composition analysis and utilisation of medicinal plants.
MLO3	3	Examine the research progress of analysis of medicinal plant ingredients.
MLO4	4	Describe the basic experimental principles related to the analysis of medicinal plant components.

### Module Content

Outline Syllabus	The module will provide an overview of analysis of medicinal plant ingredients, it will cover species and evolution characteristics of medicinal plant ingredients, acquisition of medicinal plant materials, structure characteristics parent ring, derivation sources and distribution of main families and genera of medicinal plant ingredients, preliminary test and purification of medicinal plant ingredients, spectral analysis of molecular structure of medicinal plant ingredients, and molecular improvement of medicinal plant ingredients.
Module Overview	
Additional Information	Based on the historical background of the modernisation of traditional Chinese medicine in China, and the resource advantage of Yunnan as the "Kingdom of plants", this module systematically teaches the modern analysis methods of active ingredients of medicinal plants, including chromatography analysis, spectroscopy analysis, chromatography-spectroscopy analysis, biochemical analysis and molecular biology analysis.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Exam	70	2	MLO1, MLO2, MLO3, MLO4
Exam	Test	30	0	MLO1, MLO2, MLO3, MLO4

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Katie Evans	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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