

Introduction of Medicinal Fungi

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Course name : Introduction of Medicinal Fungi	Unit : 2 hrs/week : 2
Year: Junior	Course: Optional
Classroom:	Office Hours:
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A、Course Description :

Introduction of Medicinal Fungi provides broad subjects of the field of mycology: it explores the morphology, taxonomy, physiology, genetics, and commercial utilization of medicinal fungi. The level of this course meets for the students who have learned basic biology and chemistry.

At first, types of species and morphological structures of medicinal fungi will be introduced and focused on development of student's sharp observation and recognition ability. After learning physiological and genetic characteristics of medicinal fungi, the feasibility of mass production and commercial utilization by tissue culture will be discussed in details.

B、Teaching Goals :

The objectives of this course are to raise student's interests and ceaseless thought about the potential of medicinal fungi used in healthy food.

It is hoped that this course will enrich the background of those who will not study medicinal fungi further and offer sound and solid foundation for those who study medicinal fungi more intensively and professionally.

C、Class Schedule for the Fall semester in 2010

Schedule	Topic
Week 1	Taxonomy of medicinal fungi.
Week 2	Taxonomy of medicinal fungi.
Week 3	Morphology of medicinal fungi.

Week 4	Morphology of medicinal fungi.
Week 5	Morphology of medicinal fungi.
Week 6	Physiological characteristics of medicinal fungi.
Week 7	Physiological characteristics of medicinal fungi.
Week 8	Physiological characteristics of medicinal fungi.
Week 9	Midterm examination
Week 10	Genetic characteristics of medicinal fungi.
Week 11	Genetic characteristics of medicinal fungi.
Week 12	Genetic characteristics of medicinal fungi.
Week 13	Bioactive ingredients of medicinal fungi.
Week 14	Bioactive ingredients of medicinal fungi.
Week 15	Mass production and commercial utilization by tissue culture.
Week 16	Mass production and commercial utilization by tissue culture.
Week 17	The recent situation and future prospect.
Week 18	Final examination

D、Grade：

1. Presence and reports 30%
2. Midterm test 30%
3. Final test 40%

E、References：

1. Wang, Bo-Chir and Chen Chi-Zhen (1994), Introduction of common edible and medicinal mushroom, Institute of Food Industry Development.
2. Li, Chin-Lian (1996), Chemistry and biochemistry of mushroom, National Institute for Compilation and Translation.
3. Elizabeth Moore-Landecker (1996) Fundamentals of the Fungi (4th edition), Prentice-Hall, Inc.