

医工薬融合 GCOE Seminar Series

*Center for Medical System Innovation
through Multidisciplinary Integration
The University of Tokyo*

Structure and Function of Toxins and Pigments from Higher Fungi in China

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Time: 16:00 - 18:00

**Venue: S1 1F. South Seminar Room, Faculty of Pharmaceutical Sciences,
The University of Tokyo**



China is extraordinary rich in higher fungi. To date about 10,000 species of fungi have been reported from the vast territory of China. Among them, nearly 6000 species, belonging to about 1200 genera, are higher fungi (excluding lichens). Higher fungi in bio-resources belong to the very productive biologically sources which produce a large and diverse variety of secondary metabolites. We have been interested in the biologically active substances present in untapped and diverse source of higher fungi from China.

In order to search for naturally occurring bioactive metabolites from higher fungi we investigated the chemical constituents of more than 200 higher fungi in Southwest of China since last 15 years. More than 1500 compounds including 500 novel toxin, pigments, bioactive compounds belong to unique amino acids, terpenoids, phenolics and nitrogen-containing compounds were isolated from basidiomycetes and ascomycetes. Some of them showed very interesting pharmacological activities. The isolation, structural elucidation and biological activity of the new compounds are discussed.

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