The Final (3rd) Annual Meeting of the NRCT Research Project on
"Chemical Research on Thai Mushroom Resources for Their Medicinal Utilization"
30 March 2026
SD-601 (6th Floor), Saranwit Building (Building No.12),
Thailand Science Park, Pathum Thani

Organized by:
National Center for Genetic Engineering and Biotechnology (BIOTEC)
National Science and Technology Development Agency (NSTDA)
Ministry of Higher Education, Science, Research, and Innovation (MHESI)

Rationale:
Higher fungi have a long history of use in folk medicine, especially in Asian countries, and their study has become a matter of great significance. Investigations on their secondary metabolites have mostly been aiming to isolate bioactive compounds as potential lead structures for the development of new drugs, products for crop protection, and even cosmetics. For instance, the medicinal mushroom *Ganoderma lucidum*, well-known as "Lingzhi", has been used since ancient times to treat hepatitis, hypertension, hypercholesterolemia and gastric cancer. It has been shown to possess a broad range of pharmacological activities, such as anticancer, antimicrobial, and anti-HIV activities, as well as hepatic and renal protective effects. Ganoderic acids, belonging to the lanostane-type triterpenes, have been considered as main active ingredients of Lingzhi. Identification of active ingredients (if small molecules) of medicinal mushrooms should lead to not only their use as lead compounds for drug discovery but also the value addition of existing medicinal mushroom species and the opportunity for new medicinal products.

The National Center for Genetic Engineering and Biotechnology (BIOTEC) has been conducting research on the search for bioactive fungal metabolites mainly from mushroom resources in Thailand. Recent results demonstrated that basidiomycetes are exceptionally rich sources of bioactive terpenoids with diverse chemical structures. In addition, we have the recent research project "Chemical Research on Thai Mushroom Resources for their Medicinal Utilization" supported by the National Research Council of Thailand (NRCT) through the Strategic Fund on Research Group Promotion Grant (Senior Research Scholar). This project is a collaboration with Mahasarakham University, Mahidol University, Chulalongkorn University and BIOTEC

Thus, BIOTEC and collaborative organization will organize the Annual Meeting of the NRCT Research Project on "Chemical Research on Thai Mushroom Resources for Their Medicinal Utilization" with the aim of sharing the research project progress and research in areas of natural product chemistry, biochemistry, molecular biology, pharmacology, and mycology and to create a research network in the area.

Objectives:
To update the research results prior to project completion, as well as to foster a research community in the fields of natural product chemistry, biochemistry, molecular biology, pharmacology, and mycology.

Speakers:

• Prof. Dr. Surat Laphookhieo	Mae Fah Luang University
• Assoc. Prof. Dr. Prapairat Seephonkai	Mahasarakham University
• Assist. Prof. Dr. Worrawat Promden	Buriram Rajabhat University
• Assist. Prof. Dr. Sutharinee Likitnukul, DVM	Mahidol University
• Dr. Masahiko Isaka	National Center for Genetic Engineering and Biotechnology

Language:
The meeting will be instructed in English without translation.

Target group:
Lecturers and researchers in the field of natural product chemistry, biochemistry, molecular biology, pharmacology, and mycology from government sections, universities and private companies

No. of participants: 40 – 50 Persons

Registration fee: Free of charge

Registration deadline: 20 March 2026 or when fully participants registration

Website and registration:
https://www.biotec.or.th/home/final-annual-meeting-NRCT-Project

Draft program:

09:00 – 10:00	Registration and Coffee Break
10:00 – 10:10	**Welcome and Opening Remark**
10:10 – 10:50	**Keynote Lecture:** **Phytochemical Research on Plants from Northern Thailand** *(TBC)* **Prof. Dr. Surat Laphookhieo** School of Science, Mae Fah Luang University
10:50 – 11:20	**Medicinal Mushroom Utilization Research at Mahasarakham University (Summary: Project 1-1)** **Assoc. Prof. Dr. Prapairat Seephonkai** Mahasarakham University
11:20 – 11:50	**α-Glucosidase Inhibitory Activity of Flavonoids from *Dalbergia parviflora* Heartwood** **Assist. Prof. Dr. Worrawat Promden** Buriram Rajabhat University
11:50 – 13:30	Lunch and Lab Tour
13:30 – 14:00	***In Vivo* Insights into the Anti-Diabetic and Hepatic Lipid Metabolism Properties of Hed Pang Extract (Summary: Project 3)** **Assist. Prof. Dr. Sutharinee Likitnukul, DVM** Mahidol University
14:00 – 14:50	**Natural Product Chemistry Research on Thai Mushroom Resources for Their Medicinal Utilization (Summary: Project 1-2 and Project 2) and Output Summary of the Senior Research Scholar Award Project** **Dr. Masahiko Isaka** National Center for Genetic Engineering and Biotechnology
14:50 – 15:30	Open Discussion and Closing Remark

General information:

Public transportation to the venue

Air-conditioned bus routes:

- No. 39 (Victory Monument - Thammasat University, Rangsit)
- No. 510 (Victory Monument - Thammasat University, Rangsit - Thai Market)

Air-conditioned van routes:

- No. 85 (Victory Monument - Thammasat University, Rangsit)

Accommodation

You are responsible for making your own arrangements.

Suggested accommodation:

- **Sirindhorn Science Home** (Located in Thailand Science Park)
  Tel: (66) 2529 7100 ext. 77235 Fax: (66) 2529 7147
  Website: http://www.nstda.or.th/ssh/service/service_1.php
- **Institute of East Asian Studies** (A 10-minute-walk from Thailand Science Park)
  Tel: (66) 2564 5000 – 3
  Website: http://www.asia.tu.ac.th/ieas/ieas_buiding.htm

For more information: Please contact

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