



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

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**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 long been conducting research on bioactive fungal metabolites derived from Thai mushroom resources, revealing that basidiomycetes are particularly rich in structurally diverse bioactive compounds and thereby providing a basis for potential practical applications. In this context, the National Research Council of Thailand (NRCT) has funded the Strategic Fund on Research Group Promotion (Senior Research Scholar) project entitled “**Chemical Research on Thai Mushroom Resources for Their Medicinal Utilization**”, a collaboration involving Mahasarakham University, Mahidol University, Chulalongkorn University and BIOTEC. As part of this initiative, the 3<sup>rd</sup> Annual Meeting is being organized to present recent research progress and to promote collaboration and networking among researchers in natural product chemistry, biochemistry, molecular biology, and mycology.

**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  
Dean, School of Science,  
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.biotech.or.th/home/final-annual-meeting-NRCT-Project>

**Draft program:**

09:00 – 10:00	Registration and Coffee Break
10:00 – 10:10	<b>Welcome and Opening Remark</b>
10:10 – 10:50	<b>Keynote Lecture:</b> <b>Phytochemistry and Biological Activities of Annonaceae: From Chemical Diversity to Bioactive Leads</b>  <b>Prof. Dr. Surat Laphookhieo</b> Dean, School of Science, Mae Fah Luang University
10:50 – 11:20	<b>Medicinal Mushroom Research at Maharakham University</b>  <b>Assoc. Prof. Dr. Prapairat Seephonkai</b> Maharakham University
11:20 – 11:40	<b>Resveratrol &amp; Oxyresveratrol from <i>Maclura cochinchinensis</i>: From Extraction to Melanogenesis Inhibition</b>  <b>Assist. Prof. Dr. Worrawat Promden</b> Buriram Rajabhat University
11:40 – 13:30	Lunch and Lab Tour
13:30 – 14:00	<b><i>In Vivo</i> Evaluation of the Anti-Diabetic and Hepatic Lipid-Modulating Effects of Hed Pang Extract</b>  <b>Assist. Prof. Dr. Sutharinee Likitnukul, DVM</b> Mahidol University
14:00 – 14:50	<b>Natural Product Chemistry Research on Thai Mushroom Resources for Their Medicinal Utilization, and Output Summary of the Senior Research Scholar Award Project</b>  <b>Dr. Masahiko Isaka</b> 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](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](http://www.asia.tu.ac.th/ieas/ieas_buiding.htm)

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**For more information: Please contact**

National Center for Genetic Engineering and Biotechnology (BIOTEC)

113 Thailand Science Park, Phahonyothin Rd., Khlong Nueng

Khlong Luang, Pathum Thani 12120, Thailand

Phone: (66) 2564 6700 ext. 3379-3382

E-mail: [rsd-bcd@biotec.or.th](mailto:rsd-bcd@biotec.or.th)

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