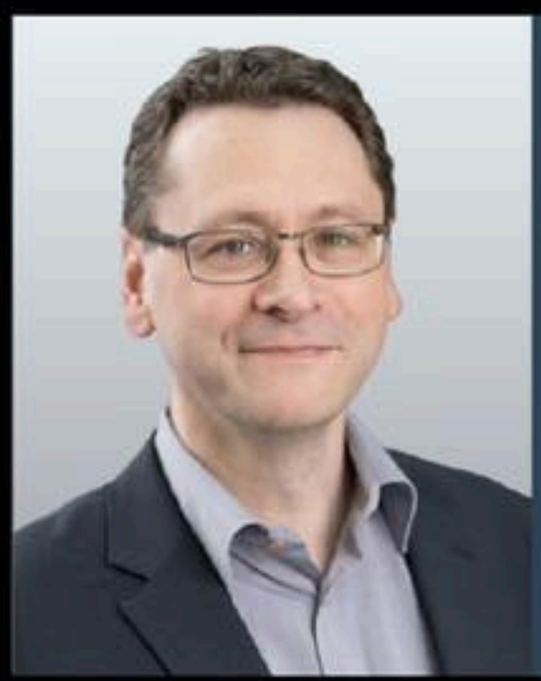
Driving Therapeutic Discovery Through Chemical Biology

February 3-4, 2026
Sukosol Hotel, Bangkok, Thailand

Keynote Speaker



Edward W. Tate

GSK Chair in Chemical Biology, Imperial College London & Francis Crick Institute, UK

"Targeting Post-translational Modification for Drug Discovery"

This symposium aims to bring together leading researchers and scientists to share their latest advances, foster collaborations, and explore new directions in chemical biology and therapeutic discovery.

Symposium Sessions

- Chemical Technologies to Probe Biology
- Medicinal Chemistry and Drug Discovery
- Chemical Technologies to Manipulate Biology
- Unnatural Nucleic Acids and Proteins
- Membrane Chemical Biology

Invited Speakers

Ho Jeong Kwon
Yonsei University
KOREA

Shinya Tsukiji
Nagoya Institute of Technology, JAPAN

Akio Ojida
Kyushu University
JAPAN

Peng Zou
Peking University
CHINA

Tom Ellis
Imperial College
London, UK

Francisco S. Mesquita
Nanyang Technological University, SINGAPORE

Tirayut Vilaivan
Chulalongkorn University
THAILAND

Chatchai Muanprasat
Mahidol University
THAILAND

Chayasith Uttamapinant
VISTEC
THAILAND

Nitipol Srimongkolpithak
NSTDA
THAILAND

Sitthivut Charoensutthivarakul
Mahidol University
THAILAND

Nathchar Naowarojna
Sakon Nakhon Rajabhat University, THAILAND

For more information, please contact...Nattawadee Panyain (nattawadee.pan@mahidol.ac.th)

This symposium is supported by the Office of the Permanent Secretary, Ministry of Higher Education, Science, Research and Innovation (OPS, MHESI), Thailand, under the "Re-inventing University" program under the theme Accelerating Drug Discovery with Advanced Chemistry

Driving Therapeutic Discovery Through Chemical Biology

February 3-4, 2026 — The Sukosol Hotel, Bangkok, Thailand

Day 1: Feb 3rd 2026

08:30 Registration

09:00 Opening Remarks

KEYNOTE LECTURE

09:30 Prof. Edward W. Tate
Imperial College London & Francis Crick Institute, UK
"Targeting Post-Translational Modification for Drug Discovery"

10:20 *Coffee Break*

Session 1: Chemical Technologies to Probe Biology

10:50 Prof. Ho Jeong Kwon
Yonsei University, KOREA
"Organelle-Targeted Chemical Proteomics: From Spatial Mechanisms to Therapeutic Discovery"

11:30 Assoc. Prof. Peng Zou
Peking University, CHINA
"Genetically Encoded Indicators for Imaging Membrane Voltage"

12:10 *Lunch Break*

13:30 Prof. Akio Ojida
Kyushu University, JAPAN
"Selective Covalent Targeting of Proteins in Living Cells"

Session 2: Medicinal Chemistry & Drug Discovery

14:10 Prof. Chatchai Muanprasat
Mahidol University, THAILAND
"Drug Discovery Targeting CFTR and TMEM16A Chloride Channels"

14:50 *Coffee Break*

15:20 Dr. Nitipol Srimongkolpithak
NSTDA, THAILAND
"FORCEFLOW: An Innovative Platform for Drug Production"

16:00 Asst. Prof. Sitthivut Charoensutthivarakul
Mahidol University, THAILAND
"Decoding Ferroptosis Suppression: Mansonone G as an NQO1-Activated Inhibitor"

18.00 - 20.00 Welcome Reception
(For speakers and committees)

Day 2: Feb 4th 2026

Session 3: Chemical Technologies to Manipulate Biology

09:00 Prof. Shinya Tsukiji
Nagoya Institute of Technology, JAPAN
"Unique Chemical Tools for Synthetic Cell Signalling Control"

09:40 Prof. Tom Ellis
Imperial College London, UK
"Engineering of Modular Multicellularity from a Unicellular Organism"

10:20 *Coffee Break*

Session 4: Unnatural Nucleic Acids & Proteins

10:50 Prof. Tirayut Vilaivan
Chulalongkorn University, THAILAND
"Peptide Nucleic Acids in Diagnostics and Therapeutics: Promises and Challenges"

11:30 Dr. Chayasith Uttamapinant
VISTEC, THAILAND
"Visualizing the Complexity of Proteins with Genetic Code Expansion for Biomedical Discovery"

12:10 *Lunch Break*

Session 5: Membrane Chemical Biology

13:30 Asst. Prof. Francisco Mesquita
Nanyang Technological University, SINGAPORE
"Protein Acylation in Cellular Responses to Viruses"

14:10 Dr. Nathchar Naowarojna
Sakon Nakhon Rajabhat University, THAILAND
"Targeting Ferroptosis with a Bioavailable GPX4 Inhibitor: A Novel Strategy to Block Metastasis In Vivo"

14:50 Closing Remarks

15:10 Coffee Break & Discussion

Registration

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