



THE 17TH INTERNATIONAL SYMPOSIUM OF THE PROTEIN SOCIETY OF THAILAND (PST2022)

CONNECTING THE DOTS

9 - 11 NOVEMBER 2022
CHIANG MAI, THAILAND

Venue: Khum Kham International
Convention Centre Chiang Mai

Website: pst2022.app-mice.com Contact us: cmuteam-med@cmu.ac.th

Important Dates

15 September 2022
Proceeding Submission Deadline

30 September 2022
Abstract Submission Deadline

Now - 17 October 2022
Early Bird Registration

18 October - 9 November 2022
Regular

Registration

General
(non-member)

6,000

BOOK NOW

General
(PST-member)

6,000

BOOK NOW

Student
(non-member)

6,000

BOOK NOW

Student
(PST-member)

6,000

BOOK NOW

THE 17TH INTERNATIONAL SYMPOSIUM OF THE PROTEIN SOCIETY OF THAILAND (PST2022)

CONNECTING THE DOTS.

9 - 11
NOV 2022

CHIANG MAI, THAILAND



Scientific Sessions

Precision medicine, Liquid biopsy,
and Extracellular vesicles
Post-translational modifications
and Synthetic biology
Food and agricultural biotechnology
Protein structure and Function
Neurodegenerative diseases
Immunology and Inflammation
Bioinformatics and Statistics
Infectious diseases
Pharmacology
Cancer research
Proteomics

Early Bird Registration

Now - 30 September 2022

Abstract/Proceeding Submission

~~Now - 30 August 2022~~

Abstract: until 30 September 2022

Proceeding: until 15 September 2022



CONTACT US.

+66-53-934-673

cmuteam-med@cmu.ac.th

<https://pst2022.app-mice.com/>



Venue: Khum Kham International Convention Centre Chiang Mai

CONTACT US

IF YOU NEED ANY ASSISTANCE, PLEASE DO NOT HESITATE TO CONTACT US.
CENTER OF MULTIDISCIPLINARY TECHNOLOGY FOR ADVANCED MEDICINE (CMUTEAM)

9 floor, The 50th Anniversary Building, Faculty of Medicine, Chiang Mai University 110 Intawarorod Road, Si Phum, Muang, Chiang Mai 50200
Tel : +66-53-934-673

Email : cmuteam-med@cmu.ac.th

Website : <https://w2.med.cmu.ac.th/omics>

Welcome Message

Dear Colleagues,

It is a great honor to officially welcome you to the 17th International Symposium of the Protein Society of Thailand (PST2022). The symposium is scheduled to be held as an in-person event during 9-11 November 2022, in Chiang Mai, Thailand. On behalf of Center of Multidisciplinary Technology for Advanced Medicine (CMUTEAM), we are honored to host this year's symposium in collaboration with the Protein Society of Thailand.

The conference for this year will be an extra special one. As in the theme of "CONNECTING THE DOTS", our scientific sessions will cover a wide range of biomedical research areas such as Proteomics, Pharmacology, Immunology, Food and agricultures, and Bioinformatics. Plenary and keynote lectures are set to be delivered from world-class speakers throughout this 3-day program. It would be our pleasure if you could join us and benefit from in-person presentation while reconnecting with colleagues and peers in Chiang Mai.

On behalf of the organizing committee, we strongly believe that this conference will provide an excellent opportunity for sharing ideas and building friendship among all the participants. Also, we gladly welcome you to this beautiful city and are looking forward to seeing you all in Chiang Mai.

Best wishes,



Chantragan Phiphobmongkol, Ph.D.
President,
Protein Society of Thailand



Dumnoensun Pruksakorn, M.D., Ph.D.
Organizing Committee Chair,
The 17th International Symposium of the Protein
Society of Thailand

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Venue




Khum Kham International Convention Centre Chiang Mai

Khum Kham is located in the new Chiangmai Business District, Chiangmai Business Park (CBP). Khum Kham is located on the Super-Highway road which makes it easily accessible from most of the luxury resorts around Chiangmai, including Khum Phaya Resort and Spa and Khum Khantoke, the largest Chiangmai Cultural Dining and Performance facilities which is a few steps away.

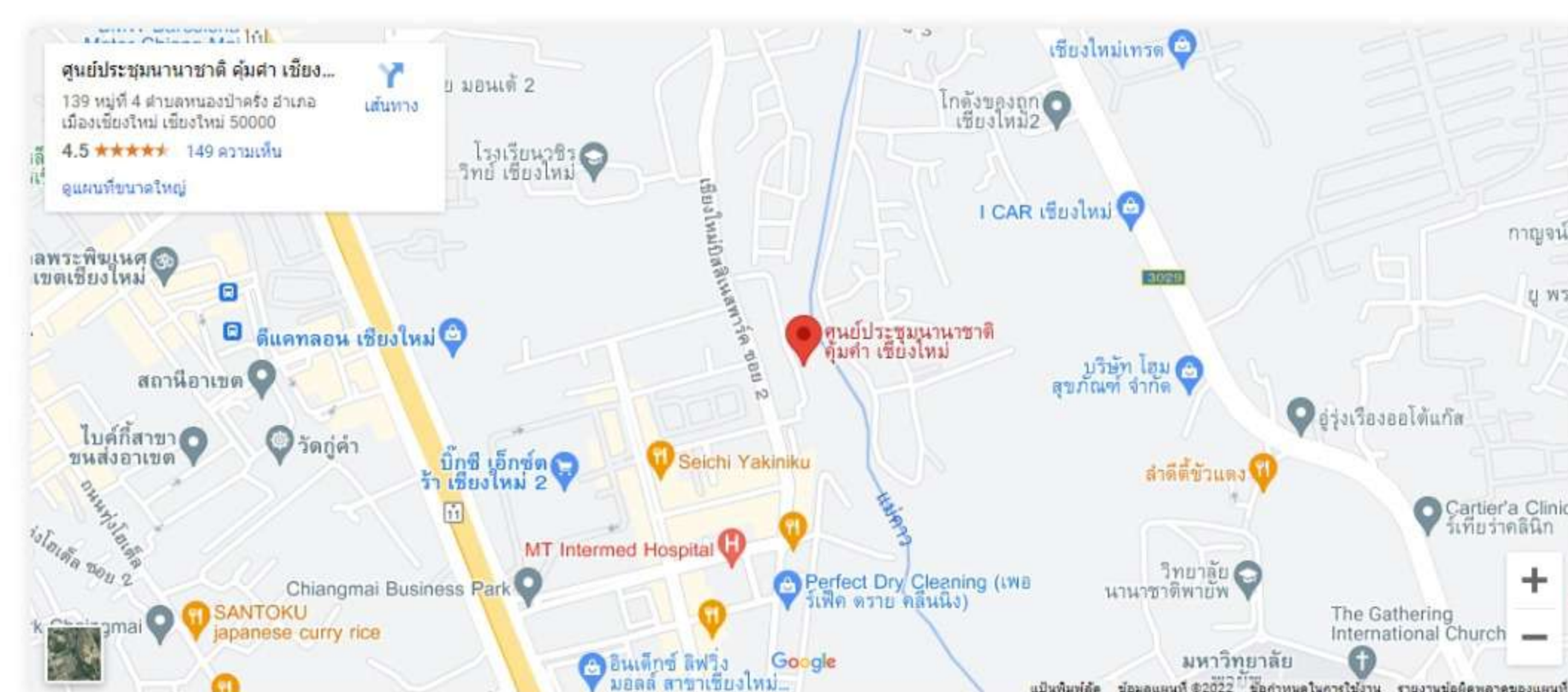
Location

139 Moo 4, Chiangmai Business Park, Nongprue, Muang, Chiang Mai, Thailand 50000

TEL

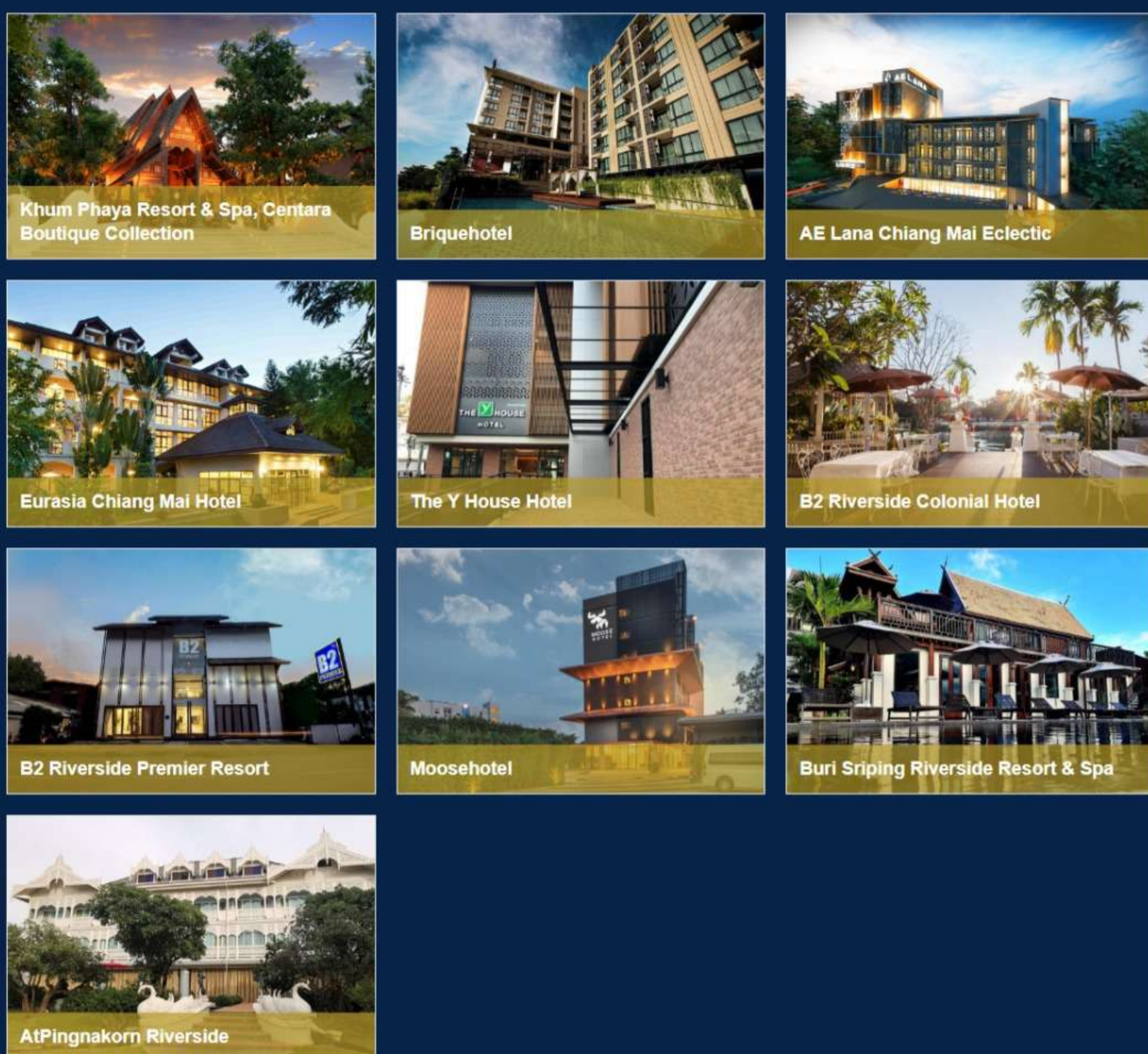
(66) 5324 4141, (66) 8 6428 8593

HOTEL WEBSITE



Located in Chiang Mai, a 7-minute walk from Nimman Haemin and 1 km from Ton Payom Market, Green Nimman CMU Residence provides accommodations with free WiFi, air conditioning, a shared lounge and a garden. Some of the units include cable flat-screen TV, a fully equipped kitchen with a fridge, and a private bathroom with a hot tub and a hairdryer. The condo hotel offers a buffet or Asian breakfast. At Green Nimman CMU Residence guests are welcome to use a hot tub.

Accommodation



About Chiang Mai

Chiang Mai is the hub of Northern Thailand, set in a verdant valley on the banks of the Ping River. The city was founded in 1296 as the capital of the ancient Lanna Kingdom and still proudly wears its distinctive culture and long history for all to see. The city is renowned as a center of Thai handicrafts, several small villages nearby specialize in crafts such as silverwork, wood carving, and making pottery, umbrellas, and lacquerware. Traditional Thai silk is woven at San Kamphaeng to the east. Do not miss to shop art products, taste local CUISINE, and see cultures on Nimmanhaemin Road.

The best things to do in Chiang Mai include visiting some of the city's beautiful temples and unique sites. Popular activities in Chiang Mai include worshipping the Phra That Doi Suthep, whether stepping on the highest point of Thailand at the top of Doi Inthanon. Absorb the beauty of the rice fields, and feel the cool breeze while watching the giant tiger flower at Doi Ang Khang. Experience Ecotourism HomeStay in Mae Kampong and visit Hmong villages in Doi Pui and many more.

However, it's now a place where the past and the present seamlessly merge with modern buildings standing side by side with venerable temples. Despite its relatively small size, Chiang Mai truly has it all.

The average temperature in Chiang Mai in November is dry at 26 co (78.8 oF)



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University
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Registration

Registration Type	Early bird (Now - 17 October 2022)	Regular (18 October - 9 November 2022)
General (non-member)	5,000 THB	6,000 THB
General (PST member*)	4,500 THB	6,000 THB
Student (non-member)	3,000 THB	6,000 THB
Student (PST member*)	2,500 THB	6,000 THB

INVITATION LETTER:

-  [Download Invitation Letter \(English\)](#)
-  [Download Invitation Letter \(Thai\)](#)

REMARKS:

Those who select **EARLY** registration **MUST COMPLETE** the **PAYMENT** by **17 October 2022** to be eligible for the early registration rate.

For those who register after 25 October 2022, their names may not be presented in the Program and Abstracts Book. [On-site registration is also available.](#)

An **EXTRA 1,000 BAHT** will be **CHARGED** to the registrant **for PROCEEDING (FULL PAPER) PUBLICATION** (ISBN: xxx-xxx-xxx-x) once your proceeding is **ACCEPTED**.

CANCELLATION AND REFUND POLICY

Registration cancellations and refund requests must be made in writing to the symposium organizers (pst_admin@proteinsocthai.net). For cancellation on or before 22 September 2020, **50%** of the registration fee will be refunded. For cancellation after 22 September 2020, no fees will be refunded. Refunds will be issued after the symposium.

CANCELLATION OR MODIFICATION DUE TO FORCE MAJEURE & DISEASE OUTBREAK

In case of Force Majeure and other disease outbreaks including **CORONAVIRUS DISEASE (COVID-19)**, the organizers have the right to change or cancel the symposium without notice and you will be informed as soon as possible. [The registration fee will be fully refunded.](#)

GO TO REGISTRATION

Please click the below button to create your account before you submit abstract.

REGISTRATION

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No. อว 8393(8).ศ.อม/243

Center of Multidisciplinary Technology
for Advanced Medicine (CMUTEAM),
Faculty of Medicine, Chiang Mai
University, Chiang Mai, Thailand

1st September 2022

Subject Invitation to attend the 17th International Symposium of the Protein Society of Thailand

Dear Chancellor / Dean / Head of Department / Director / President / Secretary / Professor /
Researcher / Student and Member of Protein Society of Thailand

It is our great pleasure to invite you to attend this 17th International Symposium of the Protein Society of Thailand (PST) “CONNECTING THE DOTS” to be held at Khum Kham International Convention Centre, Chiang Mai, Thailand during 9th – 11th November, 2022. Since its foundation in 2006, PST has arranged annual symposia for protein researchers and students to exchange their knowledge, experience and expertise with invited speakers, overseas scientists, senior researchers, and young scientists.

All Abstracts and Proceedings submitted to this international symposium have been critically reviewed prior to oral or poster presentation, and publication. The Organizing Committee also works with companies to arrange booths for the exhibition of equipment and supplies for protein research, as well as Luncheon Lectures.

In 2022, it is a great opportunity for Center of Multidisciplinary Technology for Advanced Medicine (CMUTEAM) at the Faculty of Medicine, Chiang Mai University becoming the co-host of the conference with PST. We are very grateful to Chiang Mai University and the Chulabhorn Research Institute, as well as other organizations for their support. We hope that you will accept this invitation to attend this 17th International Symposium, not only to learn about recent advances in protein research but also enjoy your activities with other protein scientists.

Yours Sincerely

(Assoc. Prof. Dumnoensun Pruksakorn, M.D., Ph.D.)
Chairman of CMUTEAM board committee

ที่ 8393(8).ศ.อม/ 236



ศูนย์บูรณาการเทคโนโลยีการแพทย์ทันสมัย
คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่
อำเภอเมือง จังหวัดเชียงใหม่
50200

25 สิงหาคม 2565

เรื่อง ขอเชิญเข้าร่วมประชุมและขอความอนุเคราะห์ประชาสัมพันธ์การประชุมวิชาการนานาชาติ
เรียน อธิการบดี/คณบดี/หัวหน้าภาควิชา/ผู้อำนวยการ/ประธาน/เลขาธิการ/อาจารย์/นักวิจัย/นิสิต/นักศึกษา และ
สมาชิกสมาคมโปรตีนแห่งประเทศไทย

ด้วยศูนย์บูรณาการเทคโนโลยีการแพทย์ทันสมัย (Center of Multidisciplinary Technology for Advanced Medicine: CMUTEAM) คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่ ร่วมกับสมาคมโปรตีนแห่งประเทศไทย ในการจัดงานประชุมวิชาการนานาชาติของสมาคมโปรตีนแห่งประเทศไทย ครั้งที่ 17 ภายใต้หัวข้อ “CONNECTING THE DOTS” ระหว่างวันที่ 9 – 11 พฤศจิกายน 2565 ณ ศูนย์ประชุมนานาชาติคุ้มคำ เชียงใหม่ โดยมีวัตถุประสงค์เพื่อ เป็นเวทีแลกเปลี่ยนองค์ความรู้ เทคโนโลยีและประสบการณ์งานวิจัยด้านโปรตีนและสาขาที่เกี่ยวข้อง จากบุคลากรและ นักวิจัยชั้นนำที่มีชื่อเสียงทั้งในประเทศไทย และในระดับนานาชาติจากหลากหลายองค์กร โดยใช้เวทีการประชุมเป็น สื่อกลางในการเผยแพร่งานวิจัย และสร้างเครือข่ายงานวิจัยโปรตีนในประเทศไทยให้กว้างขวางยิ่งขึ้น

ในการจัดประชุมครั้งนี้ คณะผู้จัดการประชุมฯ ได้เชิญวิทยากรผู้มีชื่อเสียงมาเป็นผู้บรรยายให้ความรู้แก่ ผู้เข้าร่วมการประชุมฯ และเปิดโอกาสให้ผู้เข้าร่วมประชุมสามารถนำเสนอผลงานวิจัย ทั้งแบบบรรยายปากเปล่า และ แบบโปสเตอร์วิชาการ ซึ่งผลงานทุกเรื่องจะมีคณะกรรมการพิจารณาความเหมาะสมของผลงาน (peer review) ก่อนการตีพิมพ์ โดยผู้สนใจสามารถดูรายละเอียดเพิ่มเติมได้ทางเว็บไซต์ <https://pst2022.app-mice.com/> ทั้งนี้ ค่าลงทะเบียนและค่าใช้จ่ายต่างๆ สามารถเบิกจ่ายได้ตามระเบียบกระทรวงการคลัง และผู้เข้าร่วมประชุมสามารถเข้า ประชุมได้โดยถือเป็นวันลา เมื่อได้รับการอนุมัติจากผู้บังคับบัญชา

จึงเรียนมาเพื่อขอเชิญท่านและบุคคลในสังกัดพิจารณาเข้าร่วมงานประชุมวิชาการฯ ดังกล่าว และขอ ความอนุเคราะห์ประชาสัมพันธ์ให้ทราบโดยทั่วกันด้วย จักขอบคุณยิ่ง

ขอแสดงความนับถือ

(รศ.ดร.นพ.ดำเนินสันต์ พงกษากร)

ประธานกรรมการดำเนินการศูนย์ฯ

ศูนย์บูรณาการเทคโนโลยีการแพทย์ทันสมัย

E-mail: cmuteam-med@cmu.ac.th

โทรศัพท์ 0 539 3467 3

VISA Application

VISA application to Thailand

Please refer to Bureau of Consular Affairs, Ministry of Foreign Affairs of the Kingdom of Thailand for further information regarding to the VISA application to Thailand.

Summary of countries and territories entitled for VISA Exemption and VISA on Arrival >> [Click here](#)

List of countries which have concluded bilateral agreements on VISA fee exemption with Thailand >> [Click here](#)

Letter of Invitation

Participants may request invitation letter from the symposium administrator (cmuteam-med@cmu.ac.th). The invitation is issued only when the payment is completed. The invitation letter is for the purpose of entry visa application.

Updated situation of Coronavirus Disease (COVID-19) in Thailand

From 1 May 2022, travelers entering Thailand by air will be subject to new entry measures, as follows;

1. Fully Vaccinated Persons must :

- › Register on Thailand Pass
- › Attach required documents including passport, certificate of vaccination
- › Attach proof of insurance with at least 10,000 USD coverage for medical treatments in Thailand (for non-Thais only)
- › Thai Visa (if required) (COVID-19 test, both prior to and after arriving in Thailand, is no longer required)

2. Unvaccinated Persons

(Option 1 - Exemption from quarantine) Travelers with a negative RT-PCR test result issued within 72 hours before traveling must :

- › Register on Thailand Pass
 - › Attach required documents including passport, and COVID-19 RT-PCR test result issued within 72 hours before traveling (must attach on Thailand Pass only)
 - › Attach proof of insurance with at least 10,000 USD coverage for medical treatments in Thailand (for non-Thais only)
 - › Thai Visa (if required) (Any COVID-19 test after arriving in Thailand is not required)
- PLEASE NOTE Travelers who have been approved to enter Thailand under AQ scheme but wish to enter Thailand under exemption from quarantine must re-apply on Thailand Pass.

(Option 2 - Quarantine) Travelers who cannot undergo an RT-PCR test result within 72 hours before traveling or wish to be quarantined must :

- › Register on Thailand Pass
 - › Attach required documents including passport, Alternative Quarantine (AQ) hotel confirmation for 5 days (including 1 RT-PCR test)
 - › Attach proof of insurance with at least 10,000 USD coverage for medical treatments in Thailand (for non-Thais only)
 - › Thai Visa (if required)
- * undergo an RT-PCR test on Day 4 - 5 in Thailand during the mandatory 5-day quarantine at AQ hotel

PLEASE NOTE Travelers whose Thailand Pass have already been issued can travel with the issued QR Code and do not need to register for new Thailand Pass.

Please find information on the situation of COVID-19 in Thailand from the following links:

>> [Entry Measures into Thailand](#)

>> [The situation of COVID-19 in Thailand](#)

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Plenary



Prof. Richard Simpson
Department of Biochemistry and Genetics, La Trobe Institute for Molecular Science (LIMS), La Trobe University



Prof. Yu-Ju Chen
President, Human Proteome Organization (HUPO), Institute of Chemistry, Academia Sinica, Taipei, Taiwan

Special Lecture



Assoc. Prof. Dr. Varodom Charoensawan
Department of Biochemistry, Faculty of Science, Mahidol University



Dr. Chayasith Uttamapinant
Vidyasirimedhi Institute of Science and Technology (VISTEC)

Food and agricultural biotechnology and related topics



Dr. Thu Ha Nguyen
Institute of Food Technology (LMT), Department of Food Science and Technology, University of Natural Resources and Life Sciences



Assoc. Prof. Wataru Saburi
Laboratory of Biochemistry, Research Faculty of Agriculture, Hokkaido University



Assoc. Prof. Dr. Pakorn Opaprakasit
School of Bio-Chemical Engineering and Technology (BCET), Thammasat University

Cancer



Assoc. Prof. Norie Araki
Department of Tumor Genetics and Biology, Faculty of Life Sciences, Kumamoto University



Prof. Sarawut Jitrapakdee
Department of Pharmacology, Faculty of Science, Mahidol University



Prof. Tavan Janvilisri
Department of Biochemistry, Faculty of Science, Mahidol University

Pharmacology



Prof. Young-Joon Surh
Tumor Microenvironment Global Core Research Center, Seoul National University



Prof. Wichitra Tassaneeyakul
Department of Pharmacology, Faculty of Medicine, Khon Kaen University



Assoc. Prof. Supaart Sirikantaramas
Department of Biochemistry, Faculty of Science, Chulalongkorn University

Protein structure and function



Prof. James R. Ketudat-Cairns
Suranaree University of Technology



Dr. Leela Ruckthong
Department of Chemistry, Faculty of Science, King Mongkut's University of Technology Thonburi



Assoc. Prof. Piyarat Nimmanpibul
Department of Chemistry, Faculty of Science, Chiang Mai University

Immunology and Inflammation



Prof. Watchara Kasinrer
Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University



Dr. Suangsuda Supasai
Department of Molecular Tropical Medicine and Genetics, Faculty of Tropical Medicine, Mahidol University



Prof. Chanitra Thuwajit
Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University



Dr. Surapun Tapaamorndech
Food Biotechnology Research Unit, BIOTEC, NSTDA

Bioinformatics and statistics



Assist. Prof. Balachandran Manavalan
Sungkyunkwan University



Dr. Kwanjeera Wanichthanarak
Siriraj Metabolomics and Phenomics Center (SIMP-C) Faculty of Medicine Siriraj Hospital, Mahidol University

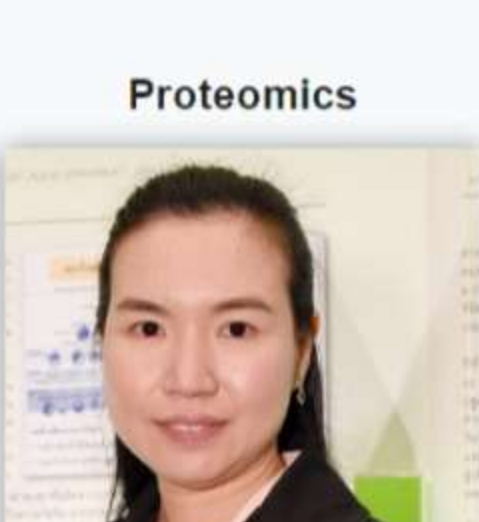


Dr. Pimlapas Leekitchareonphon
Research Group for Genomic Epidemiology, National Food Institute, Technical University of Denmark

Proteomics



Prof. Razzazi-Fazeli, Ebrahim
Research information system of the University of Veterinary Medicine Vienna



Dr. Wararat Chiangjong
Faculty of Medicine Ramathubodi Hospital, Mahidol University



Assist. Prof. Sutin Kingtong
Department of Biology, Faculty of Science, Burapha University

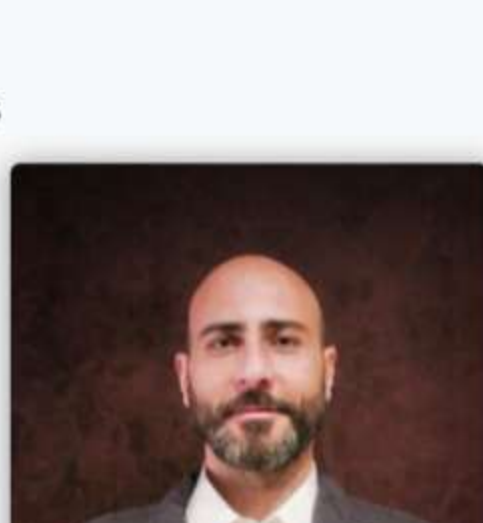
Neurodegenerative diseases



Prof. Tewin Tencomnao
Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University



Prof. Narawut Pakaprot
Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University



Dr. Luca Lo Piccolo
CMUTEAM, Faculty of Medicine, Chiang Mai University

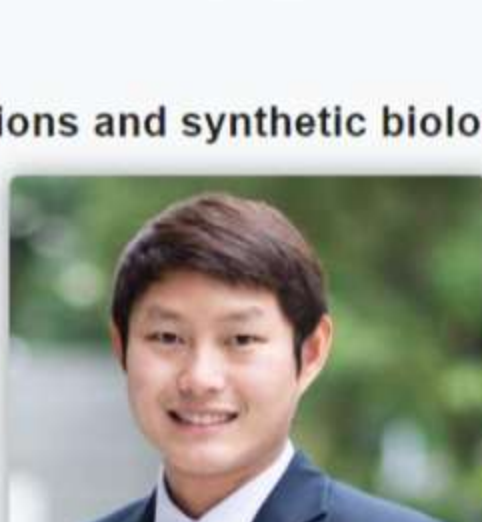
Post-translational modifications and synthetic biology



Prof. Matthew DeLisa
School of Chemical and Biomolecular Engineering at Cornell University



Dr. Sakonwan Kuhaudomlarp
Department of Biochemistry, Faculty of Science, Mahidol University



Dr. Chanat Aonbangkhen
Department of Chemistry, Faculty of Science, Chulalongkorn University

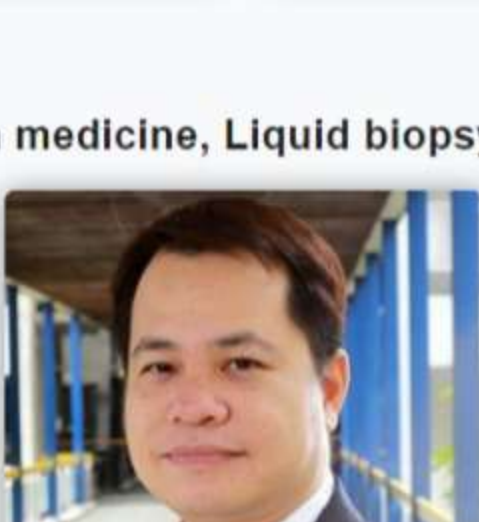


Assist. Prof. Julius Fredens
Department of Biochemistry, Yong Loo Lin School of Medicine

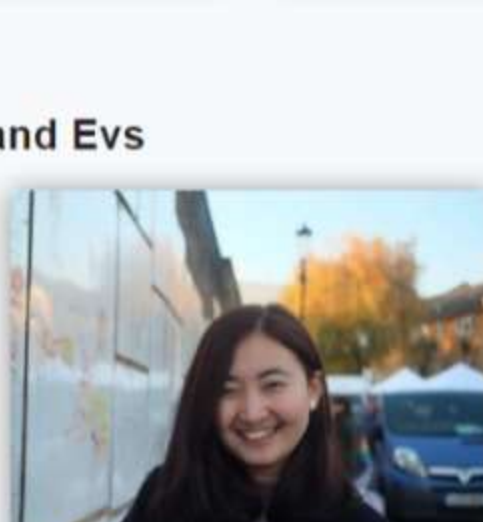
Precision medicine, Liquid biopsy and Evs



Prof. Kovit Pattanapanyasat
Department of Research and Development, Faculty of Medicine Siriraj Hospital, Mahidol University

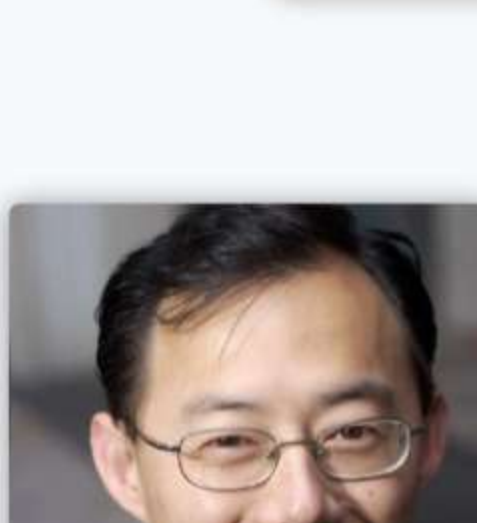


Assoc. Prof. Dr. Arthit Chairoungdua
Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand



Dr. Sasimol Udomrak
Center of Multidisciplinary Technology for Advanced Medicine (CMUTEAM), Faculty of Medicine, Chiang Mai University

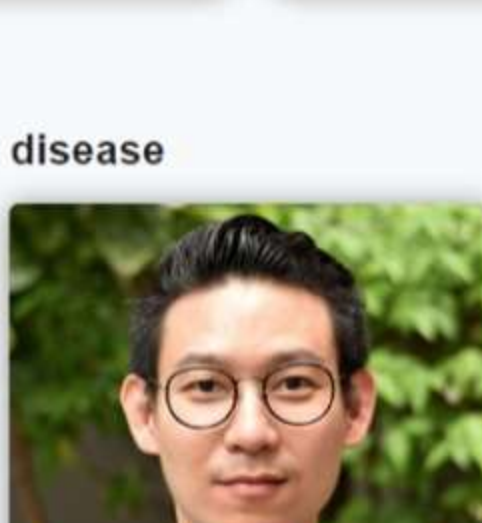
Infectious disease



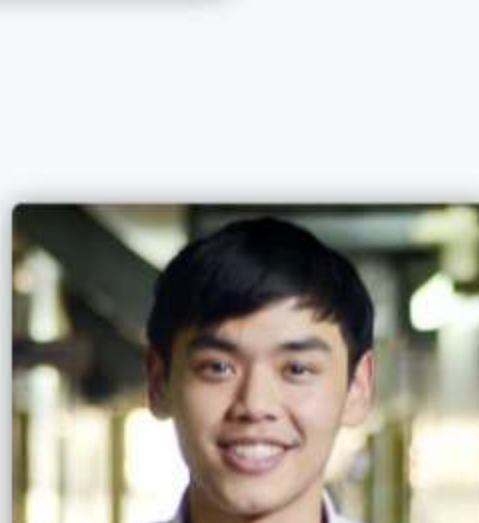
Prof. Michael Hsieh
School of Medicine and Health Sciences, The George Washington University



Dr. Phoom Chairatana
Department of Microbiology, Faculty of Medicine Siriraj Hospital, Mahidol University



Assist. Prof. Vorrapon Chaikheeratsak
Department of Biochemistry, Faculty of Science, Chulalongkorn University



Assist. Prof. Poochit Nonejuie
Institute of Molecular Biosciences, Mahidol University

Food and agricultural biotechnology and related topics session 2



Prof. Chen Wei Ning, William
Food Science and Technology School of Chemical and Biomedical Engineering Nanyang Technological University



Assoc. Prof. Chatchai Khanongnuch
Division of Biotechnology, Faculty of Agro-industry, Chiang Mai University



Dr. Tippapha Pisitkul
Division of Biotechnology, Faculty of Science, Maejo University

Special Section: Precision medicine for pediatric cancer treatment



Prof. Surasak Sangkhathat
Department of Surgery, Faculty of Medicine, Prince of Songkla University



Assoc. Prof. Dr. Dummoensun Pruksakorn
Department of Orthopedic, Faculty of Medicine, Chiang Mai University



Dr. Praewa Suthapot
Department of Pediatrics, Faculty of Medicine Ramathubodi Hospital, Mahidol University

Day 1 : 9 November 2022

Time	Program	
10:00 - 13:00	Registration and Poster Setup (All Posters)	
	Khum Kham Luang Room	
13:00- 13:30	Opening Ceremony - Dr. Chantragan Phiphobmongkol (President, Protein Society of Thailand) - Emeritus Prof. M.R. Jisnuson Svasti (Honorary Advisor, Protein Society of Thailand) - Prof. Bannakij Lojanapiwat, M.D. (Dean of Faculty of Medicine, Chiang Mai University) - Assoc. Prof. Dumnoensun Pruksakorn, M.D. (PST2022 Organizing Committee Chair, Faculty of Medicine, Chiang Mai University)	
13:30 - 14:30	Plenary Lecture 1 (Chair: Emeritus Prof. M.R. Jisnuson Svasti) Prof. Richard Simpson La Trobe University Title: Extracellular Vesicles: Their Role in Cancer and Epithelial-Mesenchymal Transition (EMT)	
14:30 - 15:30	Special Lectures (Chair: Prof. James R. Ketudat-Cairns) Awardees of the 2022 Professor M.R. Jisnuson Svasti Young Protein Scientist of Thailand Award 1. Assoc. Prof. Varodom Charoensawan (Mahidol University) Title: Exploring the Evolution, Expression and Functions of Regulatory Proteins using Systems Biology 2. Dr. Chayasith Uttamapinant (VISTEC) Title: A Multiplexed Cas13-based Assay with Point-of-Care Attributes for Simultaneous COVID-19 Diagnosis and Variant Surveillance	
15:30 - 16:30	Coffee Break & Exhibition (Chiang Thong, Chiang Sean and Viang Kham Room) PST Annual Meeting	
	Khum Kham Luang 1 Room	Khum Kham Luang 2 Room
	Session 1 : Food and Agricultural Biotechnology and Related Topics Session 1	Session 2 :Cancer
	Chairs: Assoc. Prof. Lalida Shank Dr. Pattanapong Thangsunan Chiang Mai University	Chairs: Assoc. Prof. Teera Chewonarin Chiang Mai University Dr.Voraratt Champattanachai Chulabhorn Research Institute
16:30 - 17:05	Keynote lecture Priv.-Doz. Dr. Thu-Ha Nguyen University of Natural Resources and Life Sciences Title: Lactic Acid Bacteria as Cell Factories for Production of Food Enzymes	Keynote lecture (Withdrawn) Assoc. Prof. Norie Araki Kumamoto University Title: Proteomics-Based Integrated Systems Biology for Tumor Research
17:05 - 17:30	Invited lecture Assoc. Prof. Wataru Saburi Hokkaido University Title: Expansion of Enzymatic Synthesis of Carbohydrates using Novel Carbohydrate-Acting Enzymes	Invited lecture Prof. Sarawut Jitrapakdee Mahidol University Title: Emerging Role of the Biotin-Dependent Carboxylase in Cancers
17:30- 17:55	Invited lecture Assoc. Prof. Pakorn Opaprakasit Thammasat University Title: Controlled Release Nanomaterials for Effective Treatment of COVID-19.	Invited lecture Prof. Tavan Janvilisri Mahidol University Title: Targeting Wnt Signaling Pathway in Nasopharyngeal Carcinoma
17:55 - 18:10	Selected Oral Presentation 1 Bhumrapee Eiamthong VISTEC Title: Screening of Viable Consumer-Grade Polyethylene Terephthalate (PET) and Optimizing Conditions for Enzymatic PET Degradation by MG8 PET Hydrolase	Selected Oral Presentation 2 Dr. Piriya Wongkongkathep Chulalongkorn University Title: Personalized Neoantigen Vaccine Generates Cancer-specific Immunological Responses in Thai Melanoma and Renal Cell Carcinoma Patients
18:10 - 20.00	Welcome Reception	

9 -11 NOV 2022

The 17th International Symposium of The Protein Society of Thailand (PST2022)

Chiang Mai, Thailand

Day 2 : 10 November 2022

Time	Program	
08:30 - 09:00	Registration	
	Khum Kham Luang 1 Room	Khum Kham Luang 2 Room
	Session 3 : Pharmacology	Session 4 : Protein Structure and Function
	Chairs: Assoc.Prof. Chadarat Ampasavate Dr. Pawitrabhorn samutrtai Chiang Mai University	Chairs: Assoc.Prof. Danaya Pakotiprapha Mahidol University Assist.Prof. Panchika Prangkio Chiang Mai University
09:00 - 09:35	Keynote lecture Prof.Young-Joon Surh Seoul National University Title: Role of Protein-Protein Interactions in the Tumor Progression: Research Highlights	Keynote lecture Prof. James R. Ketudat-Cairns Suranaree University of Technology Title: Structure and Application of Beta-Glucosidases to Glycosylate Bioactive Compounds by Hitch or by Click Leads to Insite into the Importance of Experimental Structural Biology
09:35 - 10:00	Invited lecture Prof. Wichitra Tassaneeyakul Khon Kaen University Title: HLA as Pharmacogenetic Markers of Drug-Induced Severe Cutaneous Adverse Drug Reactions	Invited lecture Dr. Leela Ruckthong King Mongkut's University of Technology Thonburi Title: Crystallographic and Spectroscopic Evidence of Pb(II) Binding in the Three-stranded Coiled Coil Region of the Human Line-1 ORF1p
10:00 - 10:25	Invited lecture Assoc.Prof. Supaart Sirikantaramas Chulalongkorn University Title: Discovery of Umami Compounds and Peptides in Plants using Multiplatform Metabolomics	Invited lecture Assoc.Prof. Piyarat Nimmanpipug Chiang Mai University Title: Interplay of Structure and Interactions in Functional Macromolecular Systems via Multiscale In-silico Approaches
10:25 - 10:40	Selected Oral Presentation 3 Dr. Kriengsak Lirdprapamongkol Chulabhorn Research Institute Title: Dimer of Vanillin Exerts Antimetastatic Potential in HepG2 Liver Cancer Cells Through Inhibiting FAK/PI3K/Akt Signaling Pathway	Selected Oral Presentation 4 Assoc.Prof. Sarin Chimnaronk Mahidol University Title: An e-ASIA JRP: Screening for Novel Chemotypes Against Dengue Virus from Marine Organisms
10:40 - 11:10	Coffee Break & Exhibition (Chiang Thong, Chiang Sean and Viang Kham Room)	
	Selected Oral Presentation 1	Selected Oral Presentation 2
	Chair: Assoc.Prof. Atit Silsirivanit Khon Kaen University	Chair: Dr. Sittiruk Roytrakul National Science and Technology Development Agency
11:10 - 11:25	Selected Oral Presentation 5 Dr. Suyanee Thongchot Mahidol University Title: The Induction of Nucleolin-Specific T cells Against Triple Negative Breast Cancer by Immunogenic Nucleolin Short Peptides	Selected Oral Presentation 8 Dr. Jittiporn Chaisaingmongkol Chulabhorn Research Institute Title: Landscape of DNA Methylation in Intrahepatic Cholangiocarcinoma Patients in Thailand
11:25 - 11:40	Selected Oral Presentation 6 Dr. Charupong Saengboonmee Khon Kaen University Title: GABBR2 is a Potential Therapeutic Target for Cholangiocarcinoma with Diabetes Mellitus	Selected Oral Presentation 9 Prakasit Khamsuwan Naresuan University Title: Targeting Upregulated-LAMB1 Derived from SRPK Inhibitors Treated-Cholangiocarcinoma Cell Proteome for Enhancing in vitro Growth Inhibition Through pERK/ERK/c-Jun axis
11:40 - 11:55	Selected Oral Presentation 7 Preenapan Changpasuk Naresuan University Title: Inhibition of SR-protein Kinase Induces Cholangiocarcinoma Cell Apoptosis Through the Alteration of SR-rich Splicing Factor Phosphorylation	Selected Oral Presentation 10 Orasa Panawan Khon Kaen University Title: Global- and Phospho-Proteomics Identify the Cholesterol and Fatty Acid Metabolic Pathway as a Specific Key Target of Glioma Stem-like Cells
11:55 - 12:55	Luncheon Lecture by World Tech Enterprise Ltd. Dr. Jaran Jainhuknan Title: Enhancing the Workflow Capabilities of Translational and Life Science Mass Spectrometry: New Developments in Mass Spectrometry Imaging, and Proteomics	Luncheon Lecture by SCIEX Prof. Qingsong Lin Title: Drug Target Profiling by Chemical Proteomics
	Session 5 :Immunology and Inflammation	Session 6 :Bioinformatics and Statistics
	Chairs: Assist.Prof. Hathairat Thananchai Assist.Prof. Aussara Panya Chiang Mai University	Chair: Assoc.Prof. Varodom Charoensawan Mahidol University
13:00 - 13:35	Keynote lecture Prof.Watchara Kasinrerak Chiang Mai University Title: Cannabinoid Receptors and T cell Regulation	Keynote lecture Dr. Pimlapas Leekitcharoenphon Technical University of Denmark Title: Bioinformatics for Fighting with Infectious Diseases

Day 2 : 10 November 2022

Time	Program	
	Khum Kham Luang 1 Room	Khum Kham Luang 2 Room
	Session 5 :Immunology and Inflammation	Session 6 :Bioinformatics and Statistics
13:35 - 14:00	Invited lecture Dr. Suangsuda Supasai Mahidol University Title: Persistent Neuropathology and Behavioral Defects in Rats After Status Epilepticus	Invited lecture Dr. Kwanjeera Wanichthanarak Mahidol University Title: Bioinformatics Meets Omics
14:00 - 14:25	Invited lecture Prof. Chanitra Thuwajit Mahidol University Title: The Immunotherapy of Triple Negative Breast Cancer	Keynote lecture (14.00-14.35) Assist.Prof. Balachandran Manavalan Sungkyunkwan University Title: Computational Identification of Therapeutic Peptides Using Several Machine Learning Frameworks
14:25 - 14:50	Invited lecture Dr. Surapun Tepasorndech NSTDA Title: Pyrogallol as the Novel Metabolite Inhibits Inflammatory Signaling Responses	Selected Oral Presentation 11 (14.35-14.50) Benjamaporn Sriwilai Mahidol University Title: Exploring B Cell Receptor Characteristics in COVID-19 Patients from Publicly Available Single-Cell Omics Data
14:50 - 15:50	Poster Session 1 (Odd Numbers) (Chiang Thong, Chiang Sean and Viang Kham Room)	
	Coffee Break & Exhibition (Chiang Thong, Chiang Sean and Viang Kham Room)	
	Session 7 : Proteomics	Session 8 : Neurodegenerative Diseases
	Chairs: Dr. Chantragan Phiphobmongkol Chulabhorn Research Institute Asst. Prof. Anuchit Phanumartwiwath Chulalongkorn University	Chair: Assoc.Prof. Kittisak Yokthongwattana Mahidol University
15:50 - 16:25	Keynote lecture Prof. Ebrahim Razzazi-Fazeli University of Veterinary Medicine Title: From Mass Spectrometry to Proteomics: A Historical Perspective	Keynote lecture Prof. Tewin Tencomnao Chulalongkorn University Title: An Integrated Model and Approach for elucidating the Mechanisms of Natural Products for Anti-aging and Anti-neurodegeneration
16:25 - 16:50	Invited lecture Dr. Wararat Chiangjong Mahidol University Title: Reveal the Hidden Markers in Clinical Prognosis and the Underlying Molecular Mechanism by Mass Spectrometry	Invited lecture Prof. Narawut Pakaprot Mahidol University Title: Effect of Herbal Medicine on Learning and Memory, and Brain Injury
16:50 - 17:15	Invited lecture Assist.Prof. Sutin Kingtong Burapha University Title: Toxicity of DDT to the Hooded Oyster Saccostrea Cuccullata and the Molecular Mechanism of its Toxicity Revealed by a Proteomic Approach	Invited lecture Dr. Luca Lo Piccolo Chiang Mai University Title: Regulation of FUS homeostasis in proteinopathies: what can we learn from Drosophila models of FUSopathies?
17:15 - 17:30	Selected Oral Presentation 12 Nuttamon Prompakdee Naresuan University Title: Transcriptomic and Proteomic Analyses of Rice Seedling Roots Treated with Piper Betle Extract: an In Silico Approach	Selected Oral Presentation 13 Aiyarin Kittilukkana Chiang Mai University Title: Labile Iron Disrupts Cellular Lysosomal Clearance and Induces an Accumulation of Misfolding Protein in Neuronal Cells
	Selected Oral Presentation 3	Special Session: Precision Medicine for Pediatric Cancer Treament
	Chair: Dr. Pagkapol Pongsawakul Mahidol University	Chairs: Assoc.Prof. Usanarat Anurathapan Mahidol University Dr. Jeerawan Klangjorhor Chiang Mai University
17:40 - 17:55	Selected Oral Presentation 14 Dr. Kanokwan Lowhalidanon Suranaree University of Technology Title: Production and Application of Monoclonal Antibodies Against Human LDL for Biomedical Research	Invited lecture Prof. Surasak Sangkhathat Prince of Songkla University Title: Molecular Pathogenesis of Pediatric Solid Tumors: Potential Windows for Target Discovery
17:55 - 18:10	Selected Oral Presentation 15 Theerawat Ruenkam VISTEC Title: Progress Toward Yeast Display-Based Directed Evolution of Pyrrolysyl-tRNA Synthetase	Invited lecture Assoc.Prof. Dumnoensun Pruksakorn Chiang Mai University Title: Precision Approach for Osteosarcoma Treatment by Genomics Technologies
18:10 - 18:25	Selected Oral Presentation 16 Narongyot Kittipanukul VISTEC Title: Controlling Genetic Code Expansion with Sequence-Specific RNA Binding Proteins	Invited lecture Dr. Praewa Suthapot Mahidol University Title: Genomics-Driven Precision Medicine in Pediatric Cancer
19:00 - 21:00	Banquet (Speakers and Committee)	

Day 3 : 11 November 2022

Time	Program	
08:30 - 09:00	Registration	
	Khum Kham Luang 1 Room	Khum Kham Luang 2 Room
	Session 9 : Post-Translational Modifications and Synthetic Biology	Session 10 : Infectious Disease
	Chair: Dr. Chayasith Uttamapinant VISTEC	Chair: Assist.Prof. Parameth Thiennimitr Chiang Mai University
09:00 - 09:35	Keynote lecture Prof. Matthew DeLisa Cornell University Title: Synthetic Glycobiology: Designing and Engineering Glycomolecules Inside and Outside of Living Cells	Keynote lecture Prof. Michael Hsieh The George Washington University Title: The Story of IPSE, a Parasite Immunomodulatory Protein That Provides Insights Into Host-Pathogen Protein Interactions
09:35 - 10:00	Invited lecture Dr. Sakonwan Kuhaudomlarp Mahidol University Title: Multivalent Glycomimetics Targeting Pathogenic Sugar-Binding Protein	Invited lecture Dr. Phoom Chairatana Mahidol University Title: Hijacking Salmonella Iron Uptake Machinery to Inhibit Their Infection
10:00 - 11:00	Poster Session 2 (Even Numbers) (Chiang Thong, Chiang Sean and Viang Kham Room)	
	Coffee Break & Exhibition (Chiang Thong, Chiang Sean and Viang Kham Room)	
11:00 - 11:25	Invited lecture Dr. Chanat Aonbangkhen Chulalongkorn University Title: Engineered OGT and OGA Enzymes for Studying Protein O-GlcNAcylation in Cells	Invited lecture Assist.Prof. Vorrapon Chaikeeratisak Chulalongkorn University Title: Mechanism of Pre-killing (MOK): Antibacterial Discovery Through Bacteriophage Genomics
11:25 - 11:50	Invited lecture Assist.Prof. Julius Fredens Yong Loo Lin School of Medicine Title: Creating and Exploiting Genetic Incompatibility in E. coli for Synthetic Biology	Invited lecture Assist.Prof. Poochit Nonejuie Mahidol University Title: Bacterial Cytological Profiling (BCP): a Microscopy-Based Platform for Antibiotic Discovery
11:50 - 12:05	Selected Oral Presentation 17 Benya Lakkanasirorat VISTEC Title: Progress Toward Evolving Biotin Ligase with Altered Substrate Specificity	Selected Oral Presentation 18 Manita Yimcharoen Chiang Mai University Title: The Stress Response Regulation of Mycobacterium Tuberculosis with Different Drug Resistance Profiles in a Multi-stress Model
12:05 - 13:00	Luncheon Lecture by SciSpec Co., Ltd. Dr. Ming-Yi Ho Title: Scale up Proteome Science with Thermo Scientific Orbitrap Mass Spectrometry	Luncheon Lecture by Cytiva Dr. Shu-Wen AN Title: Biacore New System Introduction
	Session 11 : Precision Medicine, Liquid Biopsy and Evs	Session 12 : Food and Agricultural Biotechnology and Related Topics Session 2
	Chairs: Dr. Churat Weeraphan Chulabhorn Research Institute Dr. Parunya Chaiyawat Chiang Mai University	Chair: Assoc.Prof. Dumnoensun Pruksakorn Chiang Mai University
13:00- 13:35	Keynote lecture Prof. Kovit Pattanapanyasat Mahidol University Title: Invasion Proteins of Extracellular Vesicles from Malaria-Infected Red Blood Cells	Keynote lecture Prof. Chen Wei Ning, William Nanyang Technological University Title: Tech Innovations and Zero Waste Food Processing: role of food metabolomics
13:35 - 14:00	Invited lecture Assoc.Prof. Arthit Chairoungdua Mahidol University Title: Extracellular Vehicles as Biomarkers and Therapeutic Applications in Cancer	Invited lecture Assoc.Prof. Chartchai Khanongnuch Chiang Mai University Title: Important Role of Tannase and Tannase-producing Microbes on Successive Fermentation of Miang, a Traditional Fermented Tea Leaves of North Thailand
14:00 - 14:25	Invited lecture Dr. Sasimol Udomruk Chiang Mai University Title: Cell-Free DNA Fragmentomes: Breakthrough "Omics" in Molecular Diagnosis	Invited lecture Dr. Tippapha Pisithkul Maejo University Title: Heterologous Protein Expression for Food and Agricultural Applications
14:25 - 15:25	Coffee Break & Exhibition (Chiang Thong, Chiang Sean and Viang Kham Room)	
	Khum Kham Luang Room	
15:25 - 16:25	Plenary Lecture 2 (Chair: Dr. Chantragan Phiphobmongkol) Prof. Yu-Ju Chen Academia Sinica Title: Opportunity and Challenge of Proteomics-Guided Precision Oncology	
16:25 - 17:00	Closing Ceremony	

ABSTRACT / PROCEEDING SUBMISSION:

SUBMISSION DEADLINE PROCEEDING : 15 September 2022

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File format:	Microsoft Word (.doc) only; Save as >> Save as type: "Word Document"
Paper size:	A4 ("8.27 x 11.69 in" or "210 x 297 mm")
Page layout:	Portrait, single column
Margins:	1 inch (2.54 cm) at all sides
Font:	Times New Roman
Font size:	Title, 14-point (bold); Authors, 12-point (bold); Affiliations and Abstract/Proceeding Body, 12-point (regular)
Line spacing:	1.0 (single-spaced; spacing before = 0 pt, after = 0 pt) throughout the text
Paragraph:	Start with indentation (1 in.) and Justified to both sides.
Headings:	ABSTRACT, INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION AND CONCLUSION, and REFERENCES use "Times New Roman" in CAPITAL LETTER, 12-point, bold. Do not leave a line between the headings and the following text.
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- A good abstract should contain a brief introductory statement of the research and include a summary of the results obtained, followed by the conclusions.
- Standard abbreviations can be used throughout. Any special or unusual abbreviations should be spelled out in full at first mention, followed by the abbreviation in parentheses. It is recommended that you use abbreviations minimally in your abstract.
- Acknowledgements and the source of research support may be added at the bottom of the abstract, if necessary.
- Total number of words of the **ABSTRACT BODY** should not exceed **250 words**.
- **Greek characters** (i.e. alpha, beta) in both the title and the text **should be spell out**.
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- A good poster should be readable from at least 5 feet away, while the figures and tables should be clearly presented.
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THE 17th INTERNATIONAL SYMPOSIUM OF
THE PROTEIN SOCIETY OF THAILAND
(PST2022)

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CMUTEAM
Center of Multidisciplinary Technology
for Advanced Medicine

November 9-11,
2022

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Chiang Saen/ Chiang Thong Room (1st Floor)



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Viang Kham Room (G Floor)



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41 Bio Design Co., Ltd.

42, 43 DKSH Technology Co., Ltd.

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CENTER OF MULTIDISCIPLINARY TECHNOLOGY FOR ADVANCED MEDICINE (CMUTEAM)

9 floor, The 50th Anniversary Building, Faculty of Medicine, Chiang Mai University 110 Intawaroros Road, Si Phum, Muang, Chiang Mai 50200
Tel : +66-53-934-673
Email : cmuteam-med@cmu.ac.th
Website : https://w2.med.cmu.ac.th/omics