



INTERNATIONAL CONFERENCE AGENDA

The Thai Society of Human Genetics 5th Annual Conference 2026 “Genomics Thailand and Beyond: Connecting the Dots with Multi-Omics for a Complete Picture of Human Health”

6th – 8th May 2026 at Infinity Ballroom, Pullman Bangkok King Power, Bangkok

DAY 1: 6TH MAY 2026

8.00 – 8:30 **REGISTRATION**

8.30 – 9.30 **OPENING SESSION**

Conference Report: *Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)*

Opening Address: *Phatthana Phomphat (Ministry of Public Health, Thailand)*

Opening Ceremony:

• Dignitaries on Stage:

• *Phatthana Phomphat (Ministry of Public Health, Thailand)*

• *Supachai Pathumnakul (Ministry of Higher Education, Science, Research and Innovation, Thailand)*

• *Supakit Sirilak (Health System Research Institute, Thailand)*

• *Jakris Eu-ahsunthornwattana (President of the Thai Society of Human Genetics)*

Special Address: *Supachai Pathumnakul (Ministry of Higher Education, Science, Research and Innovation, Thailand)*

Award Ceremony

Group Photo

9.30 – 9.45 **PRESIDENT’S ADDRESS :** *Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)*

9.45 – 10.30 **INAUGURAL LECTURE : TBA**

Sirirung Songsivilai (Science, Research and Innovation Commission, Thailand)

10.30 – 11.00 **BREAK**

11.00 – 11.30 **INDUSTRY SYMPOSIUM : TBA**

11.30 – 12.00 **TSHG ANNUAL GENERAL MEETING 2026**

12.00 – 13.30 **LUNCH**

13.30 – 15.00 **ELSI SESSION (AI)**

Moderator: *Prasit Powthongkum (Chulalongkorn University, Thailand)*

Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

Panel Discussion

The Moral Code: Responsible AI in the Genomics Revolution

Prasit Phowthongkum (Chulalongkorn University, Thailand)

Touchapon Kraisingkorn (Amity Solutions Corporation Co., Ltd., Thailand)

Peerapat Chokesuwattanaskul (Chulalongkorn University, Thailand)

Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

15.00 – 15.30 **BREAK**

15.30 – 16.15 **KEYNOTE**

TBA

Kenjiro Kosaki (Keio University School of Medicine, Japan)

16.15 – 17.00 **PLENARY SESSION**

TBA

Lili Milani (University of Tartu, Estonia)



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DAY 2: 7TH MAY 2026 (Part I)

8.00 - 8:30 REGISTRATION

8.30 – 10.00 **PARALLEL SESSION**
ROOM 1: RARE DISEASES
Moderator: *Thipwimol Tim-Aroon (Mahidol University, Thailand)*

Genomics Across the Lifespan: Transforming Rare Disease Care from Diagnosis to Prevention
Vorasuk Shotelersuk (Chulalongkorn University, Thailand)

Implementing Expanded Newborn Screening for MS/MS in National Health Programs
Chulaluck Kuptanon (Queen Sirikit National Institute of Child Health, Thailand)
Thipwimol Tim-Aroon (Mahidol University, Thailand)

Fragile X Syndrome and Carrier Screening in Thailand: Challenges and Future Directions
Pornprot Limprasert (Prince of Songkla University, Thailand)

PARALLEL SESSION
ROOM 2: NON-COMMUNICABLE DISEASES (NCDS)
Moderator: *Chartchai Chaichana (Mahidol University, Thailand) and Phongthana Pasookhush (Mahidol University, Thailand)*

Familial hypercholesterolemia
Weerapan Khovidhunkit (Chulalongkorn University, Thailand)

Unlock Genetics of Obesity
Pornpoj Pramyothin (Mahidol University, Thailand)

Genome-Wide Association Study and Metabolomics to Decode Gestational Diabetes Mellitus in Northeastern Thai Women
Apinya Jusakul (Khon Kaen University, Thailand)

PARALLEL SESSION
ROOM 3: CANCER
Moderator: *Dumnoensun Pruksakorn (Chiang Mai University, Thailand)*

From Cancer Genome to Candidate Drug: Redesigning Therapeutics Using Somatic Mutation Data
Surasak Sangkhathat (Mahidol University, Thailand)

Unlocking Genomic Alterations in B-ALL: Structural Variant Detection with Long-Read Technologies
Patcharawadee Thongkumkoon (Chiang Mai University, Thailand)

Mapping the Chromosomal Landscape and Specific Gene Signatures of Primary Liver Cancers for Diagnosis and Chemotherapy Response Prediction
Malinee Thanee (Khon Kaen University, Thailand)

10.00 – 10.30 BREAK

10.30 – 11.30 **PARALLEL SESSION**
ROOM 1: RARE DISEASES
Moderator: *Thipwimol Tim-Aroon (Mahidol University, Thailand)*

Rare Disease Benefit Policies in Thailand: Lessons Learned and Future Directions
Cherdchai Nopmaneejumruslers (Mahidol University, Thailand)
Kanya Suphapeetiporn (Chulalongkorn University, Thailand)

Genetic Information Protection and Health Policy in Thailand: A GINA-Informed Perspective
Surakameth Mahasirimongkol (Ministry of Public Health, Thailand)

PARALLEL SESSION
ROOM 2: NON-COMMUNICABLE DISEASES (NCDS)
Moderator: *Chartchai Chaichana (Mahidol University, Thailand) and Phongthana Pasookhush (Mahidol University, Thailand)*

Kidney Disease
Chagriya Kitiyakara (Mahidol University, Thailand)

A Decade of Building Genomic Cohorts: Lessons & Next Steps
Korapat Mayurasakorn (Mahidol University, Thailand)

PARALLEL SESSION
ROOM 3: CANCER
Moderator: *Dumnoensun Pruksakorn (Chiang Mai University, Thailand)*

Decoding Tumor Complexity Through Organoids and Spatial Biology: A Translational Framework for Precision Oncology
Somponnat Sampattavanich (Mahidol University, Thailand)

Multi-Omic Approaches to Uncover the Molecular Landscape and Therapeutic Targets of Thai Osteosarcoma
Parunya Chaiyawat (Chiang Mai University, Thailand)

11.30 – 12.00 **ROOM 1: LUNCHEON SYMPOSIUM 2**

TBA

ROOM 2: LUNCHEON SYMPOSIUM 3

TBA

ROOM 3: LUNCHEON SYMPOSIUM 4

TBA



12.00 – 13.30 LUNCH

13.30 – 14.30	ROOM 1: ORAL PRESENTATION Moderator:	ROOM 2: ORAL PRESENTATION Moderator:	ROOM 3: ORAL PRESENTATION Moderator:
	TBA	TBA	TBA
	TBA	TBA	TBA
	TBA	TBA	TBA

14.30 – 15.00 BREAK

15.00 – 16.30	PARALLEL SESSION ROOM 1: PHARMACOGENOMICS Moderator: <i>Chonlaphat Sukasem (Mahidol University, Thailand)</i>	PARALLEL SESSION ROOM 2: BIOINFORMATICS Moderator: <i>Chatarin Wangsanuwat (Mahidol University, Thailand)</i>	PARALLEL SESSION ROOM 3: POPULATION GENOMICS AND FORENSICS Moderator: <i>Metawee Srikummool (Naresuan University, Thailand)</i>
	<p>Pharmacogenomics of Severe Cutaneous Adverse Reactions: Current Evidence and Clinical Implications <i>Nontaya Nakkam (Khon Kaen University, Thailand)</i></p> <p>Pharmacogenomics-Driven Precision Medicine for Statin Therapy <i>Natchaya Vanwong (Chulalongkorn University, Thailand)</i></p> <p>Pharmacogenomic and Modeling Approaches for Deferasirox Optimization in Thalassemia <i>Varalee Yodsurang (Chulalongkorn University, Thailand)</i></p> <p>The Pharmacogenomic Landscape and Phenotypic Profiling of Thiopurine Toxicity in Pediatric Leukemia <i>Apichaya Puangpetch (Mahidol University, Thailand)</i></p>	<p>VEuPathDB (Online session) <i>Andrew Jones (University of Liverpool, England)</i></p> <p>When One Size Doesn't Fit All: Population-Matched Reference Panels Improve Imputation Accuracy in the Thai Population <i>Pongsakorn Wangkamhang (National Science and Technology Development Agency (NSTDA), Thailand)</i></p> <p>TBA <i>Natapol Pornputtpong (Chulalongkorn University, Thailand)</i></p>	<p>Genomic population structure in Mainland Southeast Asia <i>Wibhu Kutanan (Naresuan University, Thailand)</i></p> <p>Understanding Gut Microbiota in Different Ethnic Groups: Why It Matters (On-site only) <i>Siam Popluechai (Mae Fah Luang University, Thailand)</i></p> <p>From Ethnicity to Genomics: The Mission of Ethnogenetics in Genomics Thailand (EnGeTH) <i>Jatupol Kampaunsai (Chiang Mai University, Thailand)</i></p>



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DAY 3: 8TH MAY 2026

8.00 – 8:30 REGISTRATION

8.30 – 10.00 PARALLEL SESSION

ROOM 1: ELSI SESSION (Integrity of access to genetics)

Moderator: *Prasit Powthongkum (Chulalongkorn University, Thailand)*
and *Wuttichart Kamolvisit (Chulalongkorn University, Thailand)*

Panel Discussion

Who Should Pay, Who Should Decide? Ethics of Access to Genomic Testing

Duangrurdee Wattanasirichaigoon (Mahidol University, Thailand)
Kanya Suphapeetiporn (Chulalongkorn University, Thailand)
Prasit Phowthongkum (Chulalongkorn University, Thailand)
Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

PARALLEL SESSION

ROOM 2: BIOBANK

Moderator: *Nilubon Singhto (Mahidol University, Thailand)*

Genomic Infrastructure and National Policy: The Role of the Genomics Thailand Biobank

Sukanya Wattanapokayakit (Ministry of Public Health, Thailand)

National Proficiency Testing Program for Biobanks and Beyond

Dhitiwass Suvagandha (Ministry of Public Health, Thailand)

Thailand Biobank Consortium: Establishing a National Proficiency Testing Program for Biobank Quality

Natini Jinawath (Mahidol University, Thailand)

10.00 – 11.00 POSTER PRESENTATION (BREAK)

11.00 – 11.45 KEYNOTE: **From Association to Causation in Biobank Research: Challenges and Opportunities**

Krista Fischer (University of Tartu, Estonia)

11.45 – 12.15 INDUSTRY SYMPOSIUM: TBA

12.15 – 13.45 LUNCH

13.45 – 15.15 PARALLEL SESSION

ROOM 1: ELSI SESSION (Data Governance)

Moderator: *Prasit Powthongkum (Chulalongkorn University, Thailand)*
and *Wuttichart Kamolvisit (Chulalongkorn University, Thailand)*

Panel Discussion

Whose Data, Whose Decisions? Power, Privacy, and ELSI in Genomic Data Governance

Peerapat Chokesuwattanaskul (Chulalongkorn University, Thailand)
Prasit Phowthongkum (Chulalongkorn University, Thailand)
Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

PARALLEL SESSION

ROOM 2: INFECTIOUS DISEASES

Moderator: TBA

How Human Genetics Shapes Infectious Disease Susceptibility and Outcomes

Anunya Opasawatchai (Mahidol University, Thailand)

Mapping Host-Pathogen Movement and Coevolution: A One Health Framework for Disease Surveillance

Thachawech Kimprasit (Mahidol University, Thailand)

TBA

Oranart Matangkasombut (Chulalongkorn University, Thailand)

15.15 – 16.00 POSTER PRESENTATION (BREAK)

16.00 – 16.45 PLENARY SESSION: **The Undiagnosed Hackathon: Highlighting the 350 Million People Worldwide Living with Undiagnosed Diseases**

Mikk and Helene Cederroth (Wilhelm Foundation, Sweden)

16.45 – 17.00 SPONSORSHIP CERTIFICATE

CLOSING CEREMONY