



# 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”

6<sup>th</sup> – 8<sup>th</sup> May 2026 at Infinity Ballroom, Pullman Bangkok King Power, Bangkok

### DAY 1: 6<sup>TH</sup> MAY 2026

8.00 – 8:30 **REGISTRATION**

8.30 – 9.30 **OPENING SESSION**

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

Opening Remark:

- Opening Ceremony
  - *Somruk Chungsaman (Ministry of Public Health)*
  - *Supachai Pathumnakul (Ministry of Higher Education, Science, Research and Innovation)*
  - *Supakit Sirilak (Health System Research Institute, 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: 7<sup>TH</sup> 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 Thane (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	<b>ROOM 1: ORAL PRESENTATION</b> Moderator:	<b>ROOM 2: ORAL PRESENTATION</b> Moderator:	<b>ROOM 3: ORAL PRESENTATION</b> Moderator:
	TBA	TBA	TBA
	TBA	TBA	TBA
	TBA	TBA	TBA

**14.30 – 15.00 BREAK**

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



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### DAY 3: 8<sup>TH</sup> 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 Powthongkum (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 :**

**TBA**

*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 Powthongkum (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 :**

**TBA**

*Mikk and Helene Cederroth (Wilhelm Foundation, Sweden)*

16.45 – 17.00 **SPONSORSHIP CERTIFICATE**  
**CLOSING CEREMONY**