

International Conference Agenda
The Thai Society of Human Genetics 4th Annual Conference 2025
“Genomics Thailand in Action: Transforming Healthcare in Thailand”
30th April – 2nd May 2025 at Infinity Ballroom, Pullman Bangkok King Power, Bangkok

Day 1: 30 th April 2025	
8.00-8.30	Registration
8.30-9.30	Opening Session Conference Report: <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i> Opening Remark: <ul style="list-style-type: none"> • Opening Ceremony • Award Ceremony • Group Photo
9.30-9.45	President’s address <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
9.45-10.30	Inaugural Lecture: Discourse Speech to Professor Emeritus Khun Supa Na-Nakorn Role of “New Target from Exome Data” <i>Trairak Pisitkun (Chulalongkorn University, Thailand)</i>
10.30-11.30	Keynote 1: Genomics Thailand Phase 2 <i>Supakit Sirilak (Health Systems Research Institute (HSRI), Thailand)</i>
11.30-12.00	TSHG Annual General Meeting 2025
12.00-12.30	Luncheon symposium:
12.30-13.30	Lunch
13.30-14.30	Keynote 2: AI session <i>Piyalitt Ittichaiwong (Siriraj Informatics and Data Innovation Center (SiData+), Thailand)</i>
14.30-15.00	HLA databases <i>Seik-Soon Khor (Nanyang Technological University, Singapore)</i>
15.00-15.30	Break
15.30-16.30	Keynote 3:
End of Day 1	

Day 2: 1 st May 2025		
8.00-8.30	Registration	
8.30-10.00	<p>Parallel Session Room 1: Rare Diseases</p> <p>Moderator: <i>Thipwimol Tim-Aroon (Mahidol University, Thailand)</i></p> <p>Past, Present, and Future Perspectives of Genomic Medicine in Rare Diseases <i>Vorasuk Shotelersuk (Chulalongkorn University, Thailand)</i></p> <p>Setting up a clinical genome facility: Lessons learned from Southern Thailand <i>Surasak Sangkhathat (Prince of Songkla University, Thailand)</i></p> <p>Strange Teeth, Strange Gum, Strange Jaws in Medical Genetics <i>Piranit Kantaputra (Chiang Mai University, Thailand)</i></p>	<p>Parallel Session Room 2: Population Genomics and Forensics</p> <p>Moderator: <i>Metawee Srikumool (Naresuan University, Thailand) and Jatupol Kampaunsai (Chiang Mai University, Thailand)</i></p> <p>Genetic ancestry of the Sea Nomads from Southern Thailand <i>Wibhu Kutanan (Naresuan University, Thailand)</i></p> <p>Molecular Autopsy: Integrating Genomic Medicine and Legal Frameworks <i>Wisarn Worasuwanarak (Mahidol University, Thailand)</i></p> <p>Translating Forensic Insights into Medical Practice: Arrhythmogenic Genes and SUNDs <i>Aummarin chaloemthantephong (Chulalongkorn University, Thailand)</i></p>
10.00-10.30	Break	
10.30-11.30	<p>Parallel Session Room 1: Rare Diseases</p> <p>Moderator: <i>Thipwimol Tim-Aroon (Mahidol University, Thailand)</i></p> <p>Genetic Landscape of Hereditary Red Cell Membrane Defects in Northeastern Thailand <i>Khunton Wichajarn (Khon Kaen University, Thailand)</i></p> <p>Vascular Anomalies: Unraveling Molecular Mechanisms and Exploring Treatment Opportunities <i>Parith Wongkittichote (Mahidol University, Thailand)</i></p>	<p>Parallel Session Room 1: Biobank</p> <p>Moderator: <i>Thanastha Thanomchard (Mahidol University, Thailand)</i></p> <p>The Thai Biobanking Network and National-Level Proficiency Testing for Biobank Specimens: An Initiative <i>Nilubol Singhto (Mahidol University, Thailand)</i></p> <p>The Role of Biobank in Advancing Translational Precision Medicine: the MED-PSU experiences <i>Pasarat Khongkrow (Prince of Songkla University, Thailand)</i></p> <p>Biobank Roles in Genomic Data Governance: The MED CMU Experiences <i>Arnat Pasena (Chiang Mai University, Thailand)</i></p>
11.30-12.00	Luncheon symposium: 2	Luncheon symposium: 3
12.00-13.00	Lunch	
13.00-14.30	<p>Parallel Session Room 1: Cancer</p> <p>Moderator: <i>Dumnoensun Pruksakorn (Chiang Mai University, Thailand)</i></p> <p>Genomic Landscape of Thai Cancer Patients Focus: Unique somatic mutations and molecular alterations observed in Thai cancer patients.</p> <p>Multi-omics Landscape of Primary Liver Cancer <i>Yotsawat Pomyen (Chulabhorn Research Institute, Thailand)</i></p>	<p>Parallel Session Room 2: Bioinformatics</p> <p>Moderator: <i>Bhoom Suktitipat (Mahidol University, Thailand)</i></p> <p>Human Cell Atlas: characterizing cellular complexity beyond genomes <i>Varodom Charoensawan (Mahidol University, Thailand)</i></p> <p>Driving Precision Medicine Implementation with Genomics Thailand <i>Sissades Tongsima (National Science and Technology Development Agency, Thailand)</i></p>
	Somatic Mutation Landscapes of Colorectal Cancer	Harnessing Long-Read Sequencing for Clinical Insights: Case Studies in Epilepsy and Muscular Dystrophy

Day 2: 1st May 2025

Amphun Chaiboonchoe (Mahidol University, Thailand)

Mapping Cancer Genomes: The Power of Liquid Biopsy

Sasimol Udomruk (Chiang Mai University, Thailand)

Monnat Pongpanich (Chulalongkorn University, Thailand)

Solving Genetic Mysteries with Long-Read Sequencing

Wanna Chetruengchai (Chulalongkorn University, Thailand)

14.30-15.00

Break

15.00-16.30

Parallel Session

Room 1: Cancer

Moderator: *Dumnoensun Pruksakorn (Chiang Mai University, Thailand)*

Parallel Session

Room 2: Infectious Diseases

Moderator:

Integrating Cancer Genomic Medicine into Clinical Practice in Thailand:

Current and Future Trend of Precision Oncology

Virote Sriuranpong (Chulalongkorn University, Thailand)

The Role of Molecular Tumor Boards in Cancer Precision Medicine

Chaiyut Charoentum (Chiang Mai University, Thailand)

Genetic and infection susceptibility

Waradon Sungnak (Mahidol University, Thailand)

TBC

HLA variant and susceptibility to infection

Seik-Soon Khor (Nanyang Technological University, Singapore)

End of Day 2

Day 3: 2nd May 2025

8.00-8.30	Registration	
8.30-10.00	Parallel Session Room 1: Pharmacogenomics Moderator: <i>Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)</i>	Parallel Session Room 2: Non-Communicable Diseases (NCDs) Moderator: <i>Chartchai Chaichana (Mahidol University, Thailand) and Phongthana Pasookhush (Mahidol University, Thailand)</i>
	Bridging the Gap: Revolutionizing Personalized Medicine through Pharmacogenomics of Drug-Metabolizing Enzymes (Advance Research) <i>Suda Vannaprasaht (Khon Kaen University, Thailand)</i>	Stroke <i>Nijasri Charnnarong Suwanwela (Chulalongkorn University, Thailand)</i>
	Unveiling Genetic Insights: The Pharmacogenomic Landscape of the Thai Population Through Genome Sequencing (Advance Research) <i>Jittima Piriyapongsa (National Science and Technology Development Agency, Thailand)</i>	Chronic kidney disease <i>Chagriya Kitiyakara (Mahidol University, Thailand)</i>
	Pharmacogenomics Unleashed: New Variants and Insights Revealed Through Long-Read Sequencing (Advance Research) <i>Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)</i>	Immunogenetics and pathogenesis study of Diabetes <i>Watip Tangjittipokin (Mahidol University, Thailand)</i>
		Role of genomic medicine in transforming obesity care <i>Pornpoj Pramyothin (Mahidol University, Thailand)</i>
10.00-10.30	Break	
10.30-11.30	Parallel Session Room 1: Pharmacogenomics Moderator: <i>Chonlaphat Sukasem (Mahidol University, Thailand)</i>	Parallel Session Room 2: Statistical Genetics Moderator: <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
	Panel discussion: Integrating Pharmacogenomics for Seamless and Personalized Patient Care in Thailand: A real-world evidence and practice <i>Nuttaporn Comying (King Narai Hospital, Thailand)</i> <i>Thanaporn Likittientong (Samut Sakhon Hospital, Thailand)</i> <i>Thoranit Pratangthato (Thongchai Pharmacy, Thailand)</i>	Mendelian Randomization <i>Pimphen Charoen (Mahidol University, Thailand)</i> Polygenic Risk Score <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
11.30-12.00	Luncheon symposium: 4	Luncheon symposium: 5
12.00-13.00	Lunch	
Scientific Session – ELSI (Insurance) Moderator: <i>Prasit Phowthongkum (Chulalongkorn University, Thailand)</i>		
13.00-13.15	Ethical and legal issues in newborn metabolics and genomics screening <i>Prasit Phowthongkum (Chulalongkorn University, Thailand)</i>	
13.15-14.00	Newborn metabolic screening and healthy screening and insurance underwriting <i>Somsakul Sripisuth (AIA Company Limited, Thailand)</i>	

Day 3: 2nd May 2025

Scientific Session – ELSI (Inform Consent and Secondary Finding)

Moderator: *Wuttichart Kamolvisit (Chulalongkorn University, Thailand)*

14.00-15.00 **Panel Discussion:**
When the Genome Speaks Twice: Ethical Implications of Secondary Findings in Genetic Testing
Prasit Phowthongkum (Chulalongkorn University, Thailand)
Thanyachai Sura (Mahidol University, Thailand)
Parith Wongkittichote (Mahidol University, Thailand)
Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

15.00-15.30 Break

15.30-16.00 **Moderator:** *Wuttichart Kamolvisit (Chulalongkorn hospital, Thailand)*

Panel Discussion:
Informed Consent in the Age of Complexity: Ethics and Challenges
Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)
Wuttichart Kamolvisit (Chulalongkorn University, Thailand)

16.00-16.15 **Sponsorship Certificate**

16.15-16.30 **Closing Ceremony**

End of Day 3