

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 2024 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 (Ramathibodi Hospital, 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 (Ramathibodi Hospital, 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	Parallel Session Room 1: Rare diseases Moderator: Past, Present, and Future Perspectives of Genomic Medicine in Rare Diseases Vorasuk Shotelersuk (Chulalongkorn hospital, Thailand) Setting up a clinical genome facility: Lessons learned from Souther Thailand Surasak Sangkhathat (Prince of Songkla University, Thailand) Strange Teeth, Strange Gum, Strange Jaws in Medical Genetics Piranit Kantaputra (Chiang Mai University, Thailand)	Parallel Session Room 2: Population Genomics and Forensics Moderator: Metawee Srikumool (Naresuan University, Thailand) and Jatupol Kampaunsai (Chiang Mai University, Thailand) Genetic ancestry of the Sea Nomads from Southern Thailand Wibhu Kutanan (Naresuan University, Thailand) Molecular Autopsy: Integrating Genomic Medicine and Legal Frameworks Wisarn Worasuwanarak (Mahidol University, Thailand) Translating Forensic Insights into Medical Practice: Arrhythmogenic Genes and SUNDs Aummarin chaloemthanetphong (Chulalongkorn University, Thailand)
10.00-10.30	Break	
10.30-11.30	Parallel Session Room 1: Rare diseases Moderator: Genetic Landscape of Hereditary Red Cell Membrane Defects in Northeastern Thailand Khunton Wichajarn (Srinakarin Hospital, Thailand) Vascular Anomalies: Unraveling Molecular Mechanisms and Exploring Treatment Opportunities Parith Wongkittichote (Ramathibodi Hospital, Thailand)	Parallel Session Room 1: Biobank Moderator: Biobank 1 Biobank 2 Biobank 3
11.30-12.00	Luncheon symposium: 2	Luncheon symposium: 3
12.00-13.00	Lunch	
13.00-14.30	Parallel Session Room 1: Cancer Moderator: Dumnoensun Pruksakorn (Chiang Mai University, Thailand) Genomic Landscape of Thai Cancer Patients: Multi-omics Landscape of Primary Liver Cancer Yotsawat Pomyen (Chulabhorn Research Institute (CRI), Thailand) Somatic Mutation Landscapes of Colorectal Cancer Amphun Chaiboonchoe (Siriraj Hospital, Mahidol University, Thailand)	Parallel Session Room 2: Bioinformatics Moderator: Bhoom Suktitipat (Siriraj Hospital, Thailand) Human Cell Atlas: characterizing cellular complexity beyond genomes Varodom Charoensawan (Siriraj Hospital, Thailand) Driving Precision Medicine Implementation with Genomics Thailand Sissades Tongsimma (NBT, BIOTEC, NSTDA, Thailand)

Day 2: 1st May 2025

Mapping Cancer Genomes: The Power of Liquid Biopsy
Sasimol Udomruk (Chiang Mai University, Thailand)

Harnessing Long-Read Sequencing for Clinical Insights: Case Studies in Epilepsy and Muscular Dystrophy
Monnat Pongpanich (Chulalongkorn University, Thailand)

Solving Genetic Mysteries with Long-Read Sequencing
Wanna Chetruengchai (The Thai Red Cross Society, 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
Speakers

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

Day 3: 2nd May 2025

Scientific Session – ELSI (Inform Consent and Secondary Finding)

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

14.00-15.00 **Panel Discussion: *When the Genome Speaks Twice: Ethical Implications of Secondary Findings in Genetic Testing***

Prasit Phowthongkum (Chulalongkorn hospital, Thailand)

Thanyachai Sura (Ramathibodi Hospital, Thailand)

Parith Wongkittichote (Ramathibodi Hospital, Thailand)

Wuttichart Kamolvisit (Chulalongkorn hospital, 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 (Ramathibodi Hospital, Thailand)

Wuttichart Kamolvisit (Chulalongkorn hospital, Thailand)

16.00-16.15 **Sponsorship Certificate**

16.15-16.30 **Closing Ceremony**

End of Day 3