

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: - Opening Ceremony <i>Opas Karnkawinpong (Ministry of Public Health)</i> <i>Supakit Sirilak (Health System Research Institute)</i> - Award Ceremony - Group Photo
9.30-10.15	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>
10.15-11.15	Keynote 1: Genomics Thailand Phase 2 <i>Supakit Sirilak (Health Systems Research Institute (HSRI), Thailand)</i>
11.15-11.30	President’s address <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
11.30-12.00	TSHG Annual General Meeting 2025
12.00-12.30	Industry symposium 1: Population and Precision Health Powered by Oxford Nanopore Multiomics Solutions <i>Kathleen Barnes (Oxford Nanopore Technologies, United States of America)</i>
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: Transforming Genomics Medicine: From Bench to Clinical Applications <i>Thanyachai Sura (Mahidol University, Thailand)</i>
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: Tim Phetthong (Phramongkutklao College of Medicine, Thailand) and Thipwimol Tim-Aroon (Mahidol University, Thailand)	Parallel Session Room 2: Population Genomics and Forensics Moderator: Metawee Srikummool (Naresuan University, Thailand) and Jatupol Kampuansai (Chiang Mai University, Thailand)
	Past, Present, and Future Perspectives of Genomic Medicine in Rare Diseases Vorasuk Shotelersuk (Chulalongkorn University, Thailand) Setting up a clinical genome facility: Lessons learned from Southern Thailand Surasak Sangkhathat (Prince of Songkla University, Thailand) Strange Teeth, Strange Gum, Strange Jaws in Medical Genetics Piranit Kantaputra (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: Tim Phetthong (Phramongkutklao College of Medicine, Thailand) and Thipwimol Tim-Aroon (Mahidol University, Thailand)	Parallel Session Room 1: Biobank Moderator: Thanastha Thanomchard (Mahidol University, Thailand)
	Genetic Landscape of Hereditary Red Cell Membrane Defects in Northeastern Thailand Khunton Wichajarn (Khon Kaen University, Thailand) Vascular Anomalies: Unraveling Molecular Mechanisms and Exploring Treatment Opportunities Parith Wongkittichote (Mahidol University, Thailand)	The Thai Biobanking Network and National-Level Proficiency Testing for Biobank Specimens: An Initiative Nilubol Singhto (Mahidol University, Thailand) The Role of Biobank in Advancing Translational Precision Medicine: the MED-PSU experiences Pasarat Khongkow (Prince of Songkla University, Thailand) Biobank Roles in Genomic Data Governance: The MED CMU Experiences Arnat Pasena (Chiang Mai University, Thailand)
11.30-12.00	Luncheon symposium 2: "HiFi Reads, Deep Insights: A Genomic Breakthrough for Rare Disease Discovery" DH Park (DKSH Limited, Switzerland)	
12.00-13.00	Lunch	
13.00-14.30	Parallel Session Room 1: Cancer Moderator: Dumnoensun Pruksakorn (Chiang Mai University, Thailand)	Parallel Session Room 2: Bioinformatics Moderator: Bhoom Suktipat (Mahidol University, Thailand)
	Genomic Landscape of Thai Cancer Patients Focus: Unique Somatic Mutations and Molecular Alterations Observed in Thai Cancer Patients. Multi-omics Landscape of Primary Liver Cancer Yotsawat Pomyen (Chulabhorn Research Institute, Thailand)	Human Cell Atlas: Characterizing Cellular Complexity beyond Genomes Varodom Charoensawan (Mahidol University, Thailand) Driving Precision Medicine Implementation with Genomics Thailand Sissades Tongsimma (National Science and Technology Development Agency, Thailand)

Day 2: 1 st May 2025		
	Thai colorectal cancer genome landscape for precision medicine Amphun Chaiboonchoe (Mahidol University, Thailand) 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 (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: Pisut Pongchaikul (Mahidol University, Thailand)
	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)	HLA variant and susceptibility to infection Seik-Soon Khor (Nanyang Technological University, Singapore) Round table discussion: Genetic and Infection Susceptibility Waradon Sungnak (Mahidol University, Thailand) Tiraput Poonpanichakul (Mahidol University, Thailand) Teerawit Audshasai (Mahidol University, Thailand)
End of Day 2		

Day 3: 2 nd May 2025		
8.00-8.30	Registration	
8.30-10.00	Parallel Session Room 1: Pharmacogenomics Moderator: Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)	Parallel Session Room 2: Non-Communicable Diseases (NCDs) Moderator: Chartchai Chaichana (Mahidol University, Thailand) and Phongthana Pasookhush (Mahidol University, Thailand)
	Bridging the Gap: Revolutionizing Personalized Medicine through Pharmacogenomics of Drug-Metabolizing Enzymes (Advance Research) Suda Vannaprasaht (Khon Kaen University, Thailand)	Stroke Nijasri Charnnarong Suwanwela (Chulalongkorn University, Thailand)
	Unveiling Genetic Insights: The Pharmacogenomic Landscape of the Thai Population Through Genome Sequencing (Advance Research) Jittima Piriyaopongsa (National Science and Technology Development Agency, Thailand)	Chronic kidney disease Chagriya Kitiyakara (Mahidol University, Thailand)
	Pharmacogenomics Unleashed: New Variants and Insights Revealed Through Long-Read Sequencing (Advance Research) Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)	Immunogenetics and pathogenesis study of Diabetes Watip Tangjittipokin (Mahidol University, Thailand)
		Role of genomic medicine in transforming obesity care Pornpoj Pramyothin (Mahidol University, Thailand)
10.00-10.30	Break	
10.30-11.30	Parallel Session Room 1: Pharmacogenomics Moderator: Chonlaphat Sukasem (Mahidol University, Thailand)	Parallel Session Room 2: Statistical Genetics Moderator: Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)
	Panel discussion:	
	Integrating Pharmacogenomics for Seamless and Personalized Patient Care in Thailand:A real-world evidence and practice Nuttaporn Comying (King Narai Hospital, Thailand)	Mendelian Randomization Pimphen Charoen (Mahidol University, Thailand)
	Thanaporn Likittientong (Samut Sakhon Hospital, Thailand)	Polygenic Risk Score Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)
	Thoranit Pratangthato (Thongchai Pharmacy, Thailand)	
11.30-12.00	Luncheon symposium 3: "PacBio HiFi in Pharmacogenomics: A Comparative Lens on Clinical Utility" Jee Hian Lim (DKSH Limited, Switzerland)	Luncheon symposium 4: Driving the Multiomics Revolution with Illumina Boon Siang Nicholas Tan (Illumina, United States of America)
12.00-13.00	Lunch	
Scientific Session – ELSI (Insurance) Moderator: Prasit Phowthongkum (Chulalongkorn University, Thailand)		
13.00-13.15	Ethical and legal issues in newborn metabolics and genomics screening Prasit Phowthongkum (Chulalongkorn University, Thailand)	
13.15-14.00	Newborn metabolic screening and healthy screening and insurance underwriting Somsakul Sripisuth (AIA Company Limited, Thailand)	
Scientific Session – ELSI (Informed Consent & Secondary Findings) Moderator: Wuttichart Kamolvisit (Chulalongkorn University, Thailand)		

Day 3: 2nd May 2025

14.00-15.00	Panel Discussion: <i>When the Genome Speaks Twice: Ethical Implications of Secondary Findings in Genetic Testing</i> <i>Prasit Phowthongkum (Chulalongkorn University, Thailand)</i> <i>Thanyachai Sura (Mahidol University, Thailand)</i> <i>Parith Wongkittichote (Mahidol University, Thailand)</i> <i>Wuttichart Kamolvisit (Chulalongkorn University, Thailand)</i>
15.00-15.30	Break
15.30-16.00	Moderator: <i>Wuttichart Kamolvisit (Chulalongkorn hospital, Thailand)</i> Panel Discussion: <i>Beyond the Signature: Informed Consent in Genetic Testing</i> <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i> <i>Wuttichart Kamolvisit (Chulalongkorn University, Thailand)</i>
16.00-16.15	Sponsorship Certificate
16.15-16.30	Closing Ceremony
End of Day 3	