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

8.00-8.30	Registration	
8.30-9.30	Opening Session	
	Conference Report: Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)	
	Opening Remark:	
	Opening Ceremony	
	Opas Karnkawinpong (Ministry of Public Health)	
	Supakit Sirilak (Health System Reseach Institute, Thailand)	
	Award CeremonyGroup Photo	
0.00.40.45	·	
9.30-10.15	Inaugural Lecture: Discourse Speech to Professor Emeritus Khun Supa Na-Nakorn Role of "New Target from Exome Data"	
	Trairak Pisitkun (Chulalongkorn University, Thailand)	
10.15-11.15	Keynote 1: Genomics Thailand Phase 2	
	Supakit Sirilak (Health Systems Research Institute (HSRI), Thailand)	
11.1511.30	President's address	
	Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)	
11.30-12.00	TSHG Annual General Meeting 2025	
12.00-12.30	Industry Symposium 1: SVP Population and Precision Health Powered by Oxford Nanopore	
	Multiomics Solutions Kathleen Barnes (Oxford Nanopore Technologies)	
	Natifieen Barries (Oxford Nariopore Technologies)	
12.30-13.30	Lunch	
13.30-14.30	Keynote 2: Al Session	
	Piyalitt Ittichaiwong (Siriraj Informatics and Data Innovation Center (SIData+), Thailand)	
14.30-15.00	HLA Databases	
	Seik-Soon Khor (Nanyang Technological University, Singapore)	
15.00-15.30	Break	
15.30-16.30	Keynote 3: Transforming Genomics Medicine: From Bench to Clinical Applications	
	Thanyachai Sura (Mahidol University, Thailand)	

Day 2: 1st Ma	y 2025	
8.00-8.30	Registration	
8.30-10.00	Parallel Session Room 1: Rare Diseases	Parallel Session Room 2: Population Genomics and Forensics
	Moderator : Tim Phetthong (Phramongkutklao College of Medicine, Thailand) and Thipwimol Tim-Aroon (Mahidol University, Thailand)	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)	Genetic Ancestry of the Sea Nomads from Southern Thailand Wibhu Kutanan (Naresuan University, Thailand)
	Setting up a Clinical Genome Facility: Lessons Learned from Southern Thailand Surasak Sangkhathat (Prince of Songkla University, Thailand)	Molecular Autopsy: Integrating Genomic Medicine and Legal Frameworks Wisarn Worasuwannarak (Mahidol University, Thailand)
	Strange Teeth, Strange Gum, Strange Jaws in Medical Genetics Piranit Kantaputra (Chiang Mai 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	Parallel Session Room 2: Biobank
	Moderator : Tim Phetthong (Phramongkutklao College of Medicine, Thailand) and Thipwimol Tim-Aroon (Mahidol University, Thailand))	Moderator: Thanastha Thanomchard (Mahidol University, Thailand)
	Genetic Landscape of Hereditary Red Cell Membrane Defects in Northeastern Thailand Khunton Wichajarn (Khon Kaen University, Thailand)	The Thai Biobanking Network and National-Level Proficiency Testing for Biobank Specimens: An Initiative Nilubol Singhto (Mahidol University, Thailand)
	Vascular Anomalies: Unraveling Molecular Mechanisms and Exploring Treatment Opportunities Parith Wongkittichote (Mahidol University, Thailand)	The Role of Biobank in Advancing Translational Precision Medicine: the MED-PSU experiences Pasarat Khongkow (Prince of Songkla University, Thailand)
	manaray	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	Parallel Session
	Room 1: Cancer	Room 2: Bioinformatics
	Moderator : Dumnoensun Pruksakorn (Chiang Mai University, Thailand)	Moderator: Bhoom Suktitipat (Mahidol University, Thailand)
	Genomic Landscape of Thai Cancer Patients Unique Somatic Mutations and Molecular Alterations Observed in Thai Cancer Patients.	Human Cell Atlas: Characterizing Cellular Complexity Beyond Genomes Varodom Charoensawan (Mahidol University, Thailand)
	Multi-omics Landscape of Primary Liver Cancer Yotsawat Pomyen (Chulabhorn Research Institute, Thailand)	Driving Precision Medicine Implementation with Genomics Thailand Sissades Tongsima (National Science and Technology Development Agency, Thailand)

Day 2: 1st May	y 2025	
	Thai Colorectal Cancer Genome Landscape for Precision Medicine Amphun Chaiboonchoe (Mahidol University, Thailand)	Harnessing Long-Read Sequencing for Clinical Insights: Case Studies in Epilepsy and Muscular Dystrophy Monnat Pongpanich (Chulalongkorn University, Thailand)
	Mapping Cancer Genomes: The Power of Liquid Biopsy Sasimol Udomruk (Chiang Mai 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	Parallel Session
	Room 1: Cancer	Room 2: Infectious Diseases
	Moderator : Dumnoensun Pruksakorn (Chiang Mai University, Thailand)	Moderator : Pisut Pongchaikul (Mahidol University, Thailand)
	Integrating Cancer Genomic Medicine into Clinical Practice in Thailand:	HLA Variant and Susceptibility to Infection Seik-Soon Khor (Nanyang Technological University, Singapore)
	Current and Future Trend of Precision	
	Oncology Virote Sriuranpong (Chulalongkorn University, Thailand)	Round table discussion: Genetic and Infection Susceptibility Waradon Sungnak (Mahidol University, Thailand)
	The Role of Molecular Tumor Boards in Cancer Precision Medicine	Tiraput Poonpanichakul (Mahidol University, Thailand) Teerawit Audshasai (Mahidol University,
	Chaiyut Charoentum (Chiang Mai University, Thailand)	Theiland)
	End of Day 2	2

Day 3: 2 nd Ma	ay 2025	
8.00-8.30	Registration	
8.30-10.00	Parallel Session Room 1: Pharmacogenomics	Parallel Session Room 2: Non-Communicable Diseases (NCDs)
	Moderator : Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)	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)	Stroke Nijasri Charnnarong Suwanwela (Chulalongkorn University, Thailand)
	Suda Vannaprasaht (Khon Kaen University, Thailand) Unveiling Genetic Insights: The Pharmacogenomic Landscape of the Thai Population Through Genome Sequencing (Advance Research) Jittima Piriyapongsa (National Science and Technology Development Agency, Thailand)	Chronic Kidney Disease Chagriya Kitiyakara (Mahidol University, Thailand)
		Immunogenetics and Pathogenesis Study of Diabetes Watip Tangjittipokin (Mahidol University, Thailand)
	Pharmacogenomics Unleashed: New Variants and Insights Revealed Through Long-Read Sequencing (Advance Research) Pajaree Chariyavilaskul (Chulalongkorn 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 Room1 : Pharmacogenomics	Parallel Session Room 2: Statistical Genetics
	Moderator : Chonlaphat Sukasem (Mahidol University, Thailand)	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	Mendelian Randomization Pimphen Charoen (Mahidol University, Thailand)
	Nuttaporn Comying (King Narai Hospital, 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 Sess	sion – ELSI (Insurance)	
Moderator: Pra	asit Phowthongkum (Chulalongkorn University, Thaila	and)
13.00-13.15	Ethical and Legal Issues in Newborn Metabolics Prasit Phowthongkum (Chulalongkorn University, T	
13.15-14.00	Newborn Metabolic Screening and Healthy Screening Somsakul Sripisuth (AIA Company Limited, Thailan	

Day 3: 2 nd May 2025			
Scientific Ses	sion – ELSI (Informed Consent & Secondary Findings)		
Moderator: W	uttichart 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:		
	Beyond the Signature: Informed Consent in Genetic Testing		
	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		