

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

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

Day 2: 1 <sup>st</sup> May 2025		
8.00-8.30	Registration	
8.30-10.00	<p><b>Parallel Session</b> <b>Room 1: Rare Diseases</b></p> <p><b>Moderator:</b> <i>Thipwimol Tim-Aroon (Mahidol University, Thailand) and Tim Phetthong (Phramongkutklao College of Medicine, Thailand)</i></p> <p><b>Past, Present, and Future Perspectives of Genomic Medicine in Rare Diseases</b> <i>Vorasuk Shotelersuk (Chulalongkorn University, Thailand)</i></p> <p><b>Setting Up a Clinical Genome Facility: Lessons Learned from Southern Thailand</b> <i>Surasak Sangkhathat (Prince of Songkla University, Thailand)</i></p> <p><b>Strange Teeth, Strange Gum, Strange Jaws in Medical Genetics</b> <i>Piranit Kantaputra (Chiang Mai University, Thailand)</i></p>	<p><b>Parallel Session</b> <b>Room 2: Population Genomics and Forensics</b></p> <p><b>Moderator:</b> <i>Metawee Srikumool (Naresuan University, Thailand) and Jatupol Kampaunsai (Chiang Mai University, Thailand)</i></p> <p><b>Genetic ancestry of the Sea Nomads from Southern Thailand</b> <i>Wibhu Kutanan (Naresuan University, Thailand)</i></p> <p><b>Molecular Autopsy: Integrating Genomic Medicine and Legal Frameworks</b> <i>Wisarn Worasuwanarak (Mahidol University, Thailand)</i></p> <p><b>Translating Forensic Insights into Medical Practice: Arrhythmogenic Genes and SUNDS</b> <i>Aummarin Chaloeinthanetphong (Chulalongkorn University, Thailand)</i></p>
10.00-10.30	Break	
10.30-11.30	<p><b>Parallel Session</b> <b>Room 1: Rare Diseases</b></p> <p><b>Moderator:</b> <i>Thipwimol Tim-Aroon (Mahidol University, Thailand) and Tim Phetthong (Phramongkutklao College of Medicine, Thailand)</i></p> <p><b>Genetic Landscape of Hereditary Red Cell Membrane Defects in Northeastern Thailand</b> <i>Khunton Wichajarn (Khon Kaen University, Thailand)</i></p> <p><b>Vascular Anomalies: Unraveling Molecular Mechanisms and Exploring Treatment Opportunities</b> <i>Parith Wongkittichote (Mahidol University, Thailand)</i></p>	<p><b>Parallel Session</b> <b>Room 1: Biobank</b></p> <p><b>Moderator:</b> <i>Thanastha Thanomchard (Mahidol University, Thailand)</i></p> <p><b>The Thai Biobanking Network and National-Level Proficiency Testing for Biobank Specimens: An Initiative</b> <i>Nilubol Singhto (Mahidol University, Thailand)</i></p> <p><b>The Role of Biobank in Advancing Translational Precision Medicine: the MED-PSU experiences</b> <i>Pasarat Khongkow (Prince of Songkla University, Thailand)</i></p> <p><b>Biobank Roles in Genomic Data Governance: The MED CMU Experiences</b> <i>Arnat Pasena (Chiang Mai University, Thailand)</i></p>
11.30-12.00	<b>Luncheon symposium: 2</b>	<b>Luncheon symposium: 3</b>
12.00-13.00	Lunch	
13.00-14.30	<p><b>Parallel Session</b> <b>Room 1: Cancer</b></p> <p><b>Moderator:</b> <i>Dumnoensun Pruksakorn (Chiang Mai University, Thailand)</i></p> <p><b>Genomic Landscape of Thai Cancer Patients Focus: Unique Somatic Mutations and Molecular Alterations Observed in Thai Cancer Patients.</b></p> <p><b>Multi-omics Landscape of Primary Liver Cancer</b> <i>Yotsawat Pomyen (Chulabhorn Research Institute, Thailand)</i></p>	<p><b>Parallel Session</b> <b>Room 2: Bioinformatics</b></p> <p><b>Moderator:</b> <i>Bhoom Suktitipat (Mahidol University, Thailand)</i></p> <p><b>Human Cell Atlas: Characterizing Cellular Complexity Beyond Genomes</b> <i>Varodom Charoensawan (Mahidol University, Thailand)</i></p> <p><b>Driving Precision Medicine Implementation with Genomics Thailand</b> <i>Sissades Tongsim (National Science and Technology Development Agency, Thailand)</i></p>

**Day 2: 1<sup>st</sup> May 2025****Somatic Mutation Landscapes of Colorectal Cancer**

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:**

**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: 2<sup>nd</sup> May 2025**

8.00-8.30	Registration	
8.30-10.00	<b>Parallel Session</b> <b>Room 1: Pharmacogenomics</b>  <b>Moderator:</b> <i>Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)</i>	<b>Parallel Session</b> <b>Room 2: Non-Communicable Diseases (NCDs)</b>  <b>Moderator:</b> <i>Chartchai Chaichana (Mahidol University, Thailand) and Phongthana Pasookhush (Mahidol University, Thailand)</i>
	<b>Bridging the Gap: Revolutionizing Personalized Medicine through Pharmacogenomics of Drug-Metabolizing Enzymes</b> <i>Suda Vannaprasaht (Khon Kaen University, Thailand)</i>	<b>Stroke</b> <i>Nijasri Charnnarong Suwanwela (Chulalongkorn University, Thailand)</i>
	<b>Unveiling Genetic Insights: The Pharmacogenomic Landscape of the Thai Population Through Genome Sequencing</b> <i>Jittima Piriyaopngsa (National Science and Technology Development Agency, Thailand)</i>	<b>Chronic Kidney Disease</b> <i>Chagriya Kitiyakara (Mahidol University, Thailand)</i>
	<b>Pharmacogenomics Unleashed: New Variants and Insights Revealed Through Long-Read Sequencing</b> <i>Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)</i>	<b>Immunogenetics and Pathogenesis Study of Diabetes</b> <i>Watip Tangjittipokin (Mahidol University, Thailand)</i>
		<b>Role of Genomic Medicine in Transforming Obesity Care</b> <i>Pornpoj Pramyothin (Mahidol University, Thailand)</i>
10.00-10.30	Break	
10.30-11.30	<b>Parallel Session</b> <b>Room 1: Pharmacogenomics</b>  <b>Moderator:</b> <i>Chonlaphat Sukasem (Mahidol University, Thailand)</i>	<b>Parallel Session</b> <b>Room 2: Statistical Genetics</b>  <b>Moderator:</b> <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
	<b>Panel Discussion: Integrating Pharmacogenomics for Seamless and Personalized Patient Care in Thailand: A Real-world Evidence and Practice</b>  <i>Nuttaporn Comying (King Narai Hospital, Thailand)</i>  <i>Thanaporn Likittientong (Samut Sakhon Hospital, Thailand)</i>  <i>Thoranit Pratangthato (Thongchai Pharmacy, Thailand)</i>	<b>Mendelian Randomization</b> <i>Pimphen Charoen (Mahidol University, Thailand)</i>
		<b>Polygenic Risk Score</b> <i>Jakris Eu-ahsunthornwattana (Mahidol University, Thailand)</i>
11.30-12.00	<b>Luncheon Symposium: 4</b>	<b>Luncheon Symposium: 5</b>
12.00-13.00	Lunch	
	<b>Scientific Session – ELSI (Insurance)</b> <b>Moderator:</b> <i>Prasit Phowthongkum (Chulalongkorn University, Thailand)</i>	
13.00-13.15	<b>Ethical and Legal Issues in Newborn Metabolics and Genomics Screening</b> <i>Prasit Phowthongkum (Chulalongkorn University, Thailand)</i>	
13.15-14.00	<b>Newborn Metabolic Screening and Healthy Screening and Insurance Underwriting</b> <i>Somsakul Sripisuth (AIA Company Limited, Thailand)</i>	

## Day 3: 2<sup>nd</sup> 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