

International Conference Agenda
The Thai Society of Human Genetics 3rd Annual Conference 2024
“Harnessing Genomics Thailand to Better Public Health: THE TIME IS NOW”
1st – 3rd May 2024 at Infinity Ballroom, Pullman Bangkok King Power, Bangkok

Day 1: 1st May 2024	
8.00-8.30	Registration
8.30-9.40	<p>Opening Session</p> <p>Conference Report: <i>Sissades Tongsimma (NBT, BIOTEC, NSTDA, Thailand)</i></p> <p>Opening Remark: <i>Opart Karnkawinpong (Permanent Secretary, Ministry of Public Health) and Supakit Sirilak (Executive Director, Health Systems Research Institute, HSRI)</i></p> <ul style="list-style-type: none"> • Opening Ceremony • Award Ceremony • Group Photo
9.40-9.55	Break
9.55-10.40	<p>Inaugural Lecture: Discourse Speech to Professor Emeritus Khun Supa Na-Nakorn Role of Genomics in Public Health and Medicine</p> <p><i>Emeritus Prof. Yongyuth Yuthavong (NSTDA, Thailand)</i></p>
10.45-11.25	<p>Keynote 1: The Path to Universal Newborn Sequencing</p> <p><i>Robert C. Green (Mass General Brigham and Harvard Medical School, USA)</i></p>
11.25-11.55	<p>Luncheon symposium: Population Genomics from a Rare Disease Perspective - Accurate Long-read Sequencing Is Here for the Long Game</p> <p><i>Wilson Cheng (Pacific Biosciences and DKSH)</i></p>
11.55-13.00	Lunch
Scientific Session – Rare Diseases	
Moderator: <i>Parith Wongkittichote (Ramathibodi Hospital, Thailand) and Phawin Kor-anantakul (Chulalongkorn hospital, Thailand)</i>	
13.00-13.30	<p>Panel Discussion:</p> <p>Converging Paths: Collaboration and Network Flow in Unlocking the Genomic Puzzle of Rare Diseases</p> <p><i>Thipwimol Tim-Aroon (Ramathibodi Hospital, Thailand) and Vitthayaporn Emarach Saengow (Maharat Nakhon Ratchasima Hospital, Thailand)</i></p>
13.30-14.30	<p>Inborn Metabolic Diseases in the Genomic Era: Advancements, Challenges, and Opportunities</p> <p><i>Khunton Wichajarn (Srinakarin Hospital, Thailand)</i></p> <p>Exploring Neuromuscular Diseases Through Genomic Data: Perspectives and Impact from Pediatric Neurologists</p> <p><i>Chaiyos Khongkatithum (Ramathibodi Hospital, Thailand)</i></p> <p>Genomic Paradigms in Adult Heart Disease: Redefining the Landscape</p> <p><i>Prasit Phowthongkum (Chulalongkorn hospital, Thailand)</i></p> <p>Genomic Exploration of Hearing Loss: Implications for Thailand's Population</p> <p><i>Duangrurdee Wattanasirichaigoon (Ramathibodi Hospital, Thailand)</i></p>
14.30-14.45	Break
14.45-15.15	<p>Panel discussion:</p> <p>Unlocking Mystery Cases: Decoding with Genomics</p> <p><i>Wuttichart Kamolvisit (Chulalongkorn hospital, Thailand) and Kitiwan Rojnueangnit (Chulalongkorn hospital, Thailand)</i></p>
15.15-16.00	<p>Genomics Thailand in Rare Diseases: A Journey from Conception to Advancement and Future Prospects</p> <p><i>Vorasuk Shotelersuk (Chulalongkorn hospital, Thailand)</i></p>
End of Day 1	

Day 2: 2nd May 2024

8.00-8.30 Registration

8.30-9.30 **Keynote 2: National Computational Infrastructure Supporting Genomic Medicine**
*Sissades Tongsimma (NBT, BIOTEC, NSTDA, Thailand)*9.30-10.30 **Keynote 3: 3,023 Human Genomes from Mainland Southeast Asia Disclose Hidden Genetic Diversity and Signatures of Tropical Adaptation**
Bing Su (Chinese Academy of Sciences, China)

10.30-11.00 Break

11.00-12.00 **Parallel Session**
Room 1: Bioinformatics
Moderator: *Jutarop Phetcharaburanin (Khon Kaen University, Thailand) and Yotsawat Pomyen (Chulabhorn Research Institute, Thailand)***Parallel Session**
Room 2: Population Genomics
Moderator: *Metawee Srikumool (Naresuan University, Thailand)***Panel discussion: The Role of Thai Start-up Companies in Shaping Thailand's Genomic Future**
*Siwadol Matayakul (Cariva), Jarika Makkoch (Genfosis) and Vipas Sutantayawalee (AThenaAI)***Panel discussion: Population Genetics: Uncovering the Past Thru Archaeology**
Rasmi Shoocongdej (Silpakorn University, Thailand) and Wibhu Kutanan (Naresuan University, Thailand)

12.00-13.00 Lunch

13.00-14.00 **Moderator:** *Sissades Tongsimma (NBT, BIOTEC, NSTDA, Thailand)***Moderator:** *Jatupol Kampuansai (Chiang Mai University, Thailand)***Genomics Thailand Data Access**
*Chumpol Ngamphiw (NBT, BIOTEC, NSTDA, Thailand)***Thailand's Rich Tapestry of Ancestry: Unveiling Maternal Lineages Through Comprehensive Analysis of Expanded mtDNA Data**
*Kitipong Jaisamut (Chulalongkorn University, Thailand)***Unveiling the Complex Genetics of Disease: The Power of PacBio Long-Read Sequencing in Human Disorders**
*Chureerat Phokaew (Chulalongkorn University, Thailand)***Population Genetics: High Prevalence of a Mitochondrial Disease in a Population**
*Patcharee Lertrit (Mahidol University, Thailand)***Bioinformatics for Nanopore Long Reads**
*Piroon Jenjaroenpun (Mahidol University, Thailand)*14.00-15.00 **Parallel Session**
Room 1: Infectious Diseases
Moderator: *Suganya Yongkiettrakul (NSTDA, Thailand)***Parallel Session**
Room 2: Non-Communicable Diseases (NCDs)
Moderator: *Sarocho Suthon (Siriraj Hospital, Thailand) and Jakris Eu-ahsunthornwattana (Ramathibodi Hospital, Thailand)***Keynote 4: Studies of Human-Genome-to-Bacterial-Genome Interactions**
*Prasit Palittapongarnpim (Mahidol University, Thailand)***Overview of NCD Program in Genomics Thailand**
*Jakris Eu-ahsunthornwattana (Ramathibodi Hospital, Thailand)***Genetics of Obesity**
*Pompoj Pramyothin (Siriraj Hospital, Thailand)***Genetics Architecture of Gestational Diabetes Mellitus**
Watip Tangjittipokin (Siriraj Hospital, Thailand)

15.00-15.15 Break

15.15-16.15	<p>Single-Cell Omics in Host Response to Viral Infection Ponpan Matangkasombut, Choopong (Mahidol University, Thailand)</p>	<p>THAI Chronic Kidney Disease (CKD) Risk Score Chagriya Kitiyakara (Mahidol University, Thailand)</p>
	<p>Dengue Clinical Cohort and New Perspective from Genomics Thailand Dumrong Mairiang (BIOTEC, NSTDA, Thailand)</p>	<p>Polygenic Risks of Sudden Cardiac Death John Mauleekoonphairoj (Chulalongkorn University, Thailand)</p>
	<p>Host-Pathogen Interaction Research in Thailand: Ready, Set, Go? Orapan Sripichai (National Institute of Health, Thailand)</p>	<p>Prediction of Cardiovascular Outcome Rungroj Kittayaphong (Mahidol University, Thailand)</p>

End of Day 2

Day 3: 3rd May 2024

8.00-8.30 Registration

8.30-9.30 **Keynote 5: Precision Psychiatry and Genomics in the Era of Big Data**
*Jinsong Tang (Sir Run Run Shaw Hospital, China)***Scientific Session – Pharmacogenomics****Moderator:** *Surakameth Mahasirimongol (Ministry of Public Health, Thailand)*9.30-10.00 **Clinical Implementation of PGx in Thailand: A Dream Come**
*Chonlaphat Sukasem (Ramathibodi Hospital, Thailand)*10.00-10.45 **Success Story of PGx in Thailand: Clinical Implementation and National Policy****Pharmacogenetics of SCARs***Kanoot Jaruthamsophon (Prince of Songkla University, Thailand)***Optimizing Clinical Impact of Tuberculosis Treatment Through Pharmacogenes-Drug Levels Implementation: NAT2 story***Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)***Pharmacogenomics for Drug Response: Clopidogrel***Lalita Suwandamrong (Bumrungrad International Hospital, Thailand)*

10.45-10.55 Break

10.55-11.45 **Moderator:** *Chonlaphat Sukasem (Ramathibodi Hospital, Thailand)***Panel Discussion: Clinical Pharmacogenomics Implementation in Thailand: The Role of Health Professionals Councils***Chonlaphat Sukasem (The Medical Council of Thailand), Passakorn Wanchaijiraboon (Phrapokklao Hospital, Thailand), Somsak Mitiruttanakul (The Dental Council Thailand, Thailand), Nusara Satpretpy (The Medical Technology Council, Thailand) and Acharaporn Seeherunwong (Thailand Nursing and Midwifery Council, Thailand)*11.45-12.15 **Luncheon symposium: Nanopore Technology - A Pillar for Pharmacogenomic Innovation in Thailand**
Dr. Thidathip Wongsurawat (Oxford Nanopore Technologies and BioDesign)

12.15-13.10 Lunch

Scientific Session – Cancer**Moderator:** *Sasinipa Trithiphen (National Cancer Institute, Thailand)*13.10-13.40 **Cancer Screening in the Precision Medicine Era: What's New?***Objoon Trachoo (Ramathibodi Hospital, Thailand) and Takol Chareonsirisuthigul (Ramathibodi Hospital, Thailand)*13.40-14.10 **Hereditary Cancer and Cancer Predisposition Syndrome; It's All Around***Sasinipa Trithiphen (National Cancer Institute, Thailand)*14.10-14.40 **Integrative Cancer Genetic & Epigenetic in Precision Cancer Therapy***Usanarat Anurathapan (Ramathibodi Hospital, Thailand)*14.40-15.10 **Transforming Cancer Care: Liquid Biopsy Revolutionizes Cancer Detection and Monitoring***Parunya Chaiyawat (Chiang Mai University, Thailand)*

15.10-15.25 Break

15.25-16.10 **Panel Discussion: Genomics Thailand in Cancer: A Practice to Policy***Manop Pithukpakorn (Siriraj Hospital, Thailand) and Passakorn Wanchaijiraboon (Phrapokklao Hospital, Thailand)*16.10-16.20 **Sponsorship Certificate**16.20-16.30 **Closing Ceremony****End of Day 3**