

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: 1 st May 2024	
8.00-8.30	Registration
8.30-9.40	Opening Session Conference Report: <i>Sissades Tongsimma (NSTDA, Thailand)</i> Opening Remark: <i>Opas Karnkawinpong (Permanent Secretary, Ministry of Public Health) and Supakit Sirilak (Executive Director, Health Systems Research Institute, HSRI)</i>
9.40-9.55	Break
9.55-10.40	Inaugural lecture: Discourse Speech to Professor Emeritus Khunsupa Na Nakorn Role of Genomics in Public Health and Medicine <i>Emeritus Prof. Yongyuth Yuthavong (NSTDA, Thailand)</i>
10.45-11.25	Keynote talk 1: Newborn whole genome sequencing <i>Robert C. Green (Mass General Brigham and Harvard Medical School, USA)</i>
11.25-11.55	Luncheon symposium
11.55-13.00	Lunch
Scientific session – Rare Diseases	
Modulator: <i>Parith Wongkittichote (Ramathibodi Hospital, Thailand) and Phawin Kor-anantakul (Chulalongkorn hospital, Thailand)</i>	
13.00-13.30	Panel discussion: Converging Paths: Collaboration and Network Flow in Unlocking the Genomic Puzzle of Rare Diseases <i>Thipwimol Tim-Aroon (Ramathibodi Hospital, Thailand) and Vitchayaporn Emarach Saengow (Maharat Nakhon Ratchasima Hospital, Thailand)</i>
13.30-14.30	Plenary talk: Inborn Metabolic Diseases in the Genomic Era: Advancements, Challenges, and Opportunities <i>Khunton Wichajarn (Srinakarin Hospital, Thailand)</i> Exploring Neuromuscular Diseases through Genomic Data: Perspectives and Impact from Pediatric Neurologists <i>Chaiyos Khongkatithum (Ramathibodi Hospital, Thailand)</i> Genomic Paradigms in Adult Heart Disease: Redefining the Landscape <i>Prasit Phowthongkum (Chulalongkorn hospital, Thailand)</i> Genomic Exploration of Hearing Loss: Implications for Thailand's Population <i>Duangrurdee Wattanasirichaigoon (Ramathibodi Hospital, Thailand)</i>
14.30-14.45	Break
14.45-15.15	Panel discussion: Unlocking Mystery Cases: Decoding with Genomics <i>Wuttichart Kamolvisit (Chulalongkorn hospital, Thailand) and Kitiwan Rojnueangnit (Chulalongkorn hospital, Thailand)</i>
15.15-16.00	Genomics Thailand in Rare Diseases: A Journey from Conception to Advancement and Future Prospects <i>Vorasuk Shotelersuk (Chulalongkorn hospital, Thailand)</i>
End of Day 1	

Day 2: 2 nd May 2024		
8.00-8.30	Registration	
8.30-9.30	National Computational Infrastructure Supporting Genomic Medicine Sissades Tongsimma (NSTDA, Thailand)	
9.30-10.30	Keynote talk 2: 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 Private Sector's Role in Shaping Thailand's Genomic Future Genfosis, CARIVA., etc.	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 (NSTDA, Thailand)	Moderator: Jatupol Kampaunsai (Chiang Mai University, Thailand)
	Genomics Thailand data access Chumpol Ngamphiw (NSTDA, Thailand)	Thailand's rich tapestry of ancestry: Unveiling maternal lineages through Comprehensive Analysis of Expanded mtDNA Data Kitipong Jaisamut (Chulalongkorn University, Thailand)
	Bioinformatics for Pacbio long reads Chureerat Phokaew (Chulalongkorn University, Thailand)	Population Genetics: high prevalence of a mitochondrial disease in a population Patcharee Lertrit (Mahidol University, Thailand)
14.00-15.00	Bioinformatics for Nanopore long reads Piroon Jenjaroenpun (Mahidol University, Thailand)	
	Parallel session Room 1: Infectious Diseases Moderator: Suganya Yongkiettrakul (NSTDA, Thailand)	Parallel session Room 2: Non-Communicable Diseases (NCDs) Moderator: Sarocha Suthon (Siriraj Hospital, Thailand) and Jakris Eu-ahsunthornwattana (Ramathibodi Hospital, Thailand)
15.00-15.15	Keynote talk 3: Studies of human-genome-to-bacterial-genome interactions Prasit Palittapongarnpim (Mahidol University, Thailand)	Overview of NCD programme 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 (Mahidol University, Thailand)</p>	<p>Polygenic risk of sudden cardiac death John Mauleekoonphairoj (Chulalongkorn University, Thailand)</p>
	<p>Host-pathogen interaction research in Thailand: Ready, set, go? Orapan Sripichai (Department of Medical Sciences, 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 talk 4: 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

Plenary symposium: Success story of PGx in Thailand: Clinical Implementation and National policy**PGx for SCARs***Kanoot Jaruthamsophon (Prince of Songkla University, Thailand)***PGx for dose optimization: NAT2 story***Pajaree Chariyavilaskul (Chulalongkorn University, Thailand)***PGx 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***Passakorn Wachaijiraboon (The Medical Council of Thailand, 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

12.15-13.10

Lunch

Scientific session – Cancer**Moderator:** *Sasinipa Trithiphen (National Cancer Institute, Thailand)*

13.10-13.40

Cancer screening in 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 is all around: It's not rare*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 genomic tools to cancer patient diagnosis and follow up*Parunya Chaiyawa (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 Wachaijiraboon (Phrapokklao Hospital, Thailand)*

16.10-16.20

Sponsorship Certificate

16.20-16.30

Closing ceremony**End of Day 3**