

Conference Agenda

The International Conference of the Genetic Society of Thailand 2024 (iGST2024)

| 31 st May 2024 | | | |
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| Time | Activities and Speakers | | |
| 8.00-8.30 | Registration | | |
| 8.30-9.00 | Opening ceremony Room: Convention hall | | |
| 9.00-9.30 | Plenary talk 1 | Mark Stoneking (Max Planck Institute for Evolutionary Anthropology, Germany and CNRS & Université de Lyon, France) Topic: Archaic Genomes and Insights into Human Evolution | |
| 9.30-10.00 | Plenary talk 2 | Luca Comai (Genome Center and Department of Plant Biology, University of California Davis Genome Center, UC Davis, USA) Topic: Mechanisms of clonal variant formation during vegetative propagation of crops | |
| 10.00-10.15 | coffee break | | |
| 10.15-10.45 | Plenary talk 3 | Ramon Rossello-Mora (The Mediterranean Institute for Advanced Studies (IMEDEA), Spain) Topic: Prokaryote species exist and are made by discrete and highly cohesive genomic groups | |
| 10.45-11.15 | Plenary talk 4 | Vorasuk Shotelersuk (Department of Pediatrics, Faculty of Medicine, Chulalongkorn University, Thailand) Topic: Long-read DNA sequencing for genetic disease | |
| 11.15-11.35 | Raksmom Ubonbal (Bio-Active Co., Ltd.) Topic: NGS Applications for Human Health & Biology at True Single Cell Level | | |
| 11.35-11.55 | Edgar McConnell (GenePlus Co., Ltd.) Topic: RapidHIT ID —Solve crime today and prevent victims tomorrow | | |
| 11.55-12.10 | Ganesh Babu (Genomax Technologies Co., Ltd.) Topic: From Benchtop to Battlefield: Standard BioTools Biomark X9 System - Advancing Genomics from Plants to Pathogens | | |
| 12.10-13.00 | Lunch | | |
| | parallel session | | |
| | Room Convention hall: Human and medical genetics, Pharmacogenomics and precision medicine | Room Ayutthaya: Plant Science and Breeding and Functional Genomics | Room Lopburi: Animal and wildlife genetics |
| Chairpersons | 1. Rachaneekorn Tammachote 2. Wibhu Kutanan | 1. Supachitra Chadchawan 2. Chatchawan Jantrasuriyarat | 1. Narongrit Muangmai 2. Kittisak Buddhachat |
| 13:00-14:00 | Invited speakers (3) | Invited speakers (3) | Invited speakers (3) |
| 13.00-13.20 | A-1 Jungsoo Gim (Department of Biomedical Science, Chosun University, Gwangju, Republic of Korea) | B-1 Chia-Lin Chung (Department of Plant Pathology and Microbiology, National Taiwan University, Taiwan) | C-1 Siriwadee Chomdej (Department of Biology, Faculty of Science, Chiang Mai University, Thailand) |

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| | Topic: Converging Multi-modal Evidences for the Primary Prevention of Neurodegenerative Diseases | Topic: Genetic mapping, characterization, and application of rice blast resistance gene/loci in Taiwan | Topic: Cryptic diversity of Bented-toed gecko (<i>Cyrtodactylus</i> Sp.) in Northern Thailand |
| 13.20-13.40 | A-2 Mohammad Safiqul Islam (Department of Pharmacy, Noakhali Science and Technology University, Bangladesh) Topic: Pharmacogenomics: Paving the Way for Precision Medicine and the Status in Bangladesh | B-2 David L. Hyten (Department of Agronomy and Horticulture, University of Nebraska-Lincoln, USA) Topic: Variable Selection Patterns Associated with Constitutive and GxE Effects for Soybean Grain Yield | C-2 Rangsan Charoensuk (Department of Agricultural Sciences, Faculty of Agriculture, Natural Resources and Environment Naresuan University, Thailand) Topic: Where do Thai pigs come from?, and what about their genetics now? |
| 13.40-14.00 | A-3 Thuy Duong Nguyen (Institute of Genome Research (IGR) Vietnam Academy of Science and Technology (VAST), Vietnam) Topic: New insights into genetics history of Vietnamese populations | B-3 Hee-Jae Cha (College of Medicine, Kosin University, Republic of Korea) Topic: Illuminating Gene Function through Gain-of-Function and Loss-of-Function Techniques in Functional Genomics Studies | C-3 Chatmongkon Suwannapoom (The School of Agriculture and Natural Resources, University of Phayao, Thailand) Topic: Biodiversity and Monitoring of Aquatics and Amphibians |
| | Oral presentations (5) | Oral presentations (6) | Oral presentations (6) |
| 14:00-14:15 | A-4 Warakorn Buchachat Topic: Transcriptomic Landscape in Clear Cell Renal Cell Carcinoma | B-4 Roypim Thananusak Topic: Unraveling Thai Duckweed Plastome Using Long-Read Data | C-4 Pattanan Namkham Topic: The Utilization of DNA Technology for Evaluation and Sustainable Development of Freshwater Stingray Breeding Program |
| 14:15-14:30 | A-5 Tanapon Seetaraso Topic: Effects of Ethnicity and Dietary Habit on the Gut Microbiome of Tibeto-Burman Speaking Hill-Tribes in Northern Thailand | B-5 Putut Purnama Topic: Decoding the Antioxidant Genes of Local Thai Rice: A Single- and Multi-Locus GWAS Study | C-5 Artem Lisachov Topic: Mechanism of Parthenogenesis and Origin of Thai All-Female House Gecko <i>Hemidactylus Garnotii</i> (<i>Lacertilia, Reptilia</i>) |
| 14:30-14:45 | A-6 Suwapat Sathupak Topic: Genomic Continuity and Population Dynamics of the Tai-Kadai Genetic Lineages from East to Southeast Asia | B-6 Kullapat Krabuansang Topic: Transcriptome Analysis of Rice (<i>Oryza Sativa</i> L.) Treated with Carbon Quantum Dots (BioCDs) | C-6 Jumaporn Sonongbua Topic: Non-Coding Witness: Decoding Evolutionary Insights in the Accipitridae Family Using Mitochondrial Control Regions |
| 14:45-15:00 | A-7 Vitchayaporn Saengow Topic: A Rare Phenotypic Variation of Lenz-Majewski Syndrome: A Case Report in Thailand | B-7 Anocha Poommouang Topic: Genetic Identification of Hua-Khao-Yen Using DNA Barcoding Coupled with High Resolution Melting (HRM) Technique | C-7 Hajatiana Kevin Ryan Rasoarahona Rivo Niaina Topic: Comparative Sex Chromosome Genomics of Siamese Fighting Fish: Understanding Intricacies of the Putative Sex Chromosome |
| 15.00-15:15 | A-8 Ashrita Gandhari Topic: Quercetin Mitigates Neurotoxicity and Enhances Antileukemic Effects of Vincristine Against Childhood Acute Lymphoblastic Leukemia | B-8 Thuy Nguyen Topic: Morphological Characterization and Genetic Diversity of Rice Blast Fungus in Vietnam Using Indel Markers and Avirulence Gene Sequence Variations | C-8 Tavun Pongsanarm Topic: Conservation Strategies for Blue Mahseer in Mae Hong Son: Addressing Climate Change Impacts and Genetic Diversity |

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| | CCRF-CEM Cells | | |
| 15.15-15:30 | | B-9 Karan Lohmaneeratana Topic: Draft Metagenome Assembled Genome (MAG) of Pathogenic Phytoplasma Caused Sugarcane White Leaf Disease in Thailand | C-9 Thitipong Panthum Topic: Genomic Insights in Aquaculture Sustainability: Beyond Catfish |
| 15.30-15:45 | coffee break | | |
| 15:45-16:45 | Poster presentation | | |
| 16:45-17:45 | GST board meeting | | |
| 18:00-20:00 | Welcome Dinner | | |
| End of Day1 | | | |

| 1 st June 2024 | | | |
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| Time | Activities and Speakers | | |
| 8:30-10:00 | Symposium: Genetics in Genomic Era in Thai society Arinthip Thamchaipenet (Department of Genetics, Faculty of Science, Kasetsart University, Thailand) Sissades Tongsim (National Biobank of Thailand, National Science and Technology Development Agency, Thailand) Kornsorn Srikulnath (Department of Genetics, Faculty of Science, Kasetsart University, Thailand) Supaart Sirikantaramas (Center of Excellent of Molecular Crop, Department of Biochemistry, Faculty of Science, Chulalongkorn University, Thailand) Moderator: Jatupol Kampuansai (Department of Biology, Faculty of Science, Chiang Mai University, Thailand) | | |
| 10.00-10.15 | coffee break | | |
| | parallel session | | |
| | Room Convention hall: Forensic genetics, Population genetics and evolutionary genetics | Room Ayutthaya: Biotechnology and microbial genetics, System biology and Bioinformatics | Room Lopburi: Biodiversity and general genetics |
| Chairpersons | 1. Uraiwan Arunyawat 2. Metawee Srikummool | 1. Kumrop Ratanasut 2. Teerapong Buaboocha | 1. Tosak Seelanan 2. Maliwan Nakkuntod |
| | Invited speakers (3) | Invited speakers (3) | Invited speakers (3) |
| 10:15-11:15 | D-1 Phuvadol Thanakiatkrai (Division of Health and Applied Sciences, Faculty of Science, Prince of Songkla University) Topic: Forensic Genetics: Past, Present and Future | E-1 Hiroshi Iwasaki (School of Life Science and Technology and Institute of Innovative Research, Tokyo Institute of Technology, Japan) Topic: A Basidiomycota yeast homolog of BRCA2 (Breast Cancer Type 2 susceptibility protein) is a key player in for Rad51-mediated homologous recombination repair | F-1 Masato Nikaido (Tokyo Institute of Technology, Japan) Topic: Evolutionary biology and genetics of cichlid fish inhabiting east African Lakes |
| | D-2 Jae Joseph Russell Rodriguez | E-2 Hie Lim KIM | F-2 Kyoung Seob Song (College of Medicine, Kosin University, Republic of Korea) |

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| | (Max Planck Institute for Evolutionary Anthropology, Germany and University of the Philippines, the Philippines) Topic: DNA diversity of more than 1000 present-day individuals from the Sulu Archipelago, Philippines unfolds a complex human history | (Asian School of the Environment, Nanyang Technological University, Singapore) Topic: Unraveling the impact of Environmental changes on Human Genome Evolution | Topic: Suppression of LPS-induced systemic inflammation through PDZ motif peptide of ZO-1 |
| | D-3 Jatupol Kampuansai (Department of Biology, Faculty of Science, Chiang Mai University, Thailand) Topic: Genomic Insights into the Ancestral Origins and Population Dynamics of Ethnic Groups in Thailand: Applications in Archaeology, History, and Medical Knowledge | E-3 Agostinho Antunes (CIIMAR (Interdisciplinary Centre of Marine and Environmental Research), University of Porto) Topic: Genomics of adaptation: conservation and biotechnology relevance | F-3 Aunchalee Thanwisai (Department of Microbiology and Parasitology, Faculty of Medical Science, Naresuan University, Thailand) Topic: Molecular techniques used for study bacterial diversity |
| | Oral presentations (5) | Oral presentations (5) | Oral presentations (6) |
| 11.15-11.30 | D-4 Panasaya Nipithakul Topic: Maternal Lineage Analysis of Captive Tigers (<i>Panthera Tigris</i>) in Thailand and on a Global Scale | E-4 Thanathip Sutthiphai Topic: Transcriptome Analysis of <i>Pyricularia Oryzae</i> High-Temperature Response During Appressorium Formation | F-4 Wongsathit Wongloet Topic: Diversity of Major Histocompatibility Complex (MHC) Genes in Wild Rhesus (<i>Macaca Mulatta</i>) and Long-Tailed Macaques (<i>M. Fascicularis</i>) Covering Their Hybrid Zone and Vicinity |
| 11.30-11.45 | D-5 Piangjai Chalermwong Topic: Efficiency of Microsatellite Markers for Individualization and Paternity Testing in Fighting Chickens | E-5 Phonemany Thammachak Topic: Microbial Communities of African Catfish: A Focus on Gill and Skin Regions | F-5 Worapong Singchat Topic: Comparative Genomics of Snake Satellite DNA: Evolutionary Insights and Functional Adaptations |
| 11.45-12:00 | D-6 Wattanawan Jaito Topic: Population Scale Analysis of 149 Satellite DNA Family Reveals Genomic Variation and Population Dynamics in Clariid Catfish | E-6 Chakrit Bunyoo Topic: Metagenome-Assembled Genomes (MAGs) Display a Persistent Core Microbiome Associated with <i>Wolffia Globosa</i> Under Long-Term Cultivation | F-6 Trifan Budi Topic: Genetic Evidence Suggests Distinct Classification of Samae Dam Chickens: Potential Subgrouping Within Pradu Hang Dam Breed |
| 12.00-12.15 | D-7 Dominic Kwesi Quainoo Topic: Genetic Analysis and Microsatellite Evaluation for Individual Identification and Parentage Testing of Thai Asian Elephants (<i>Elephas Maximus</i>) | E-7 Quentin Andres Topic: A New Reference Genome for a Male Broadhead Catfish (<i>Clarias Macrocephalus</i>) and a New Genome for North African Catfish (<i>Clarias Gariepinus</i>) | F-7 Juniman Rey Topic: Understanding Testicular Abnormalities in African Catfish (<i>Clarias Gariepinus</i>): Genetic and Histological Analyses for Enhanced Breeding Program Support |
| 12.15-12:30 | D-8 Chananya Patta Topic: The Microsatellite Data to Deciphers the Allelic Frequencies of Bangkaew Dog Breed | E-8 Rajaonarison Toky Topic: Comparative Analysis of Transposable Element Landscapes and Divergences in Siluriformes (Catfish) Genomes | F-8 Nichakorn Kumnan Topic: Identification of Copy Number Variation in Thai Indigenous and Local Chicken Breeds |
| 12.30-12:45 | | | F-9 Chadaphon Thatukan Topic: Thai Ridgeback Dogs: The Spell of Genetic Diversity |
| 12.45-13:40 | Lunch | | |

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| 13:40-15.10 | <p>Symposium (in Thai): Genetics in the global boiling era (พันธุศาสตร์ในยุคโลกเดือด)</p> <p>Suchana Chavanich (Department of Marine Science, Faculty of Science, Chulalongkorn University, Thailand)</p> <p>Ekaphan Kraichak (Department of Botany, Faculty of Science, Kasetsart University, Thailand)</p> <p>Theerayut Toojinda (The National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand)</p> <p>Moderator: Passorn Wonnapijit (Department of Genetics, Faculty of Science, Kasetsart University, Thailand)</p> |
| 15.10-15.25 | coffee break |
| 15.25-16:00 | Award recognition: Best oral and poster presentations and closing ceremony |
| End of Day2 | |