



Asia-Pacific Histocompatibility And Immunogenetics Association Annual Scientific Meeting (APHIA 2025)

5-7th February 2025

Faculty of Medicine, Chulalongkorn University and King Chulalongkorn Memorial Hospital,
the Thai Red Cross Society
12th Floor, Bhumisiri Mangkhalanusorn Building

Final Schedule

Tuesday Feb 4th, 2025

Pre-congress Workshop at the Thai Red Cross Society (Thermo Fisher)

8.30 – 10.00	MagSort workshop (Pre-Registration required)
10.00 – 10.20	Break
10.20 – 10.30	Welcome
10.30 – 12.30	Pre-Transplant Session: Investigating complex antibody patterns using Single Antigen with MagSort Case Study Presentations
12.30 – 13.00	Understanding Epitopes and making better decisions with HLA MatchMaker
13.00 – 13.45	Lunch
13.45 – 15.45	Post-Transplant Session: Non-invasive biomarker monitoring using Cell Free DNA Case Study Presentations
15.45 – 16.00	Break

16.00 – 17.30 Cell Free DNA workshop (Pre-registration required)

Wednesday Feb 5th, 2025 (Day 1)

7.00 – 8.30 Registration Open

8.15 – 8.30 Opening Ceremony



Program supported by Thailand Hub of Talents in Cancer Immunotherapy, TTCl)

8.30 – 10.00 Plenary Session 1: Cellular Immunotherapy I

Chair and Co-chair: Prof.Nattiya Hirankarn and Dr.Wannakorn Khopanlert

- Role of HSCT vs CAR T cells in Hematologic Malignancy
 - Assoc. Prof. Kitsada Wudhikarn, Division of Hematology, Faculty of Medicine, Chulalongkorn University, Thailand
- Challenges in delivering cellular therapies for transplant recipients and cancer patients
 - Prof.Rajiv Khanna, Co-Director, Queensland Immunology Research Centre; Distinguished Scientist, Tumour Immunology Laboratory, QIMR Berghofer Medical Research Institute, Australia
- mRNA-based T cell engineering for treatment of virus-related cancer and virus infection
 - Prof.Antonio Bertoletti, Duke-NUS Graduate Medical School, Singapore

10.00 – 10.30 Coffee Break with Poster Session I

10.30 – 12.00 Plenary Session 2: Cellular Immunotherapy II

Chair and Co-chair: Prof.Chanitra Thuwajit and Dr.Koramit Suppipat

- Clinical Application of Mesenchymal Stem Cells: Current Trends and Future Directions
 - Prof.Jacques Galipeau,

Associate Dean for Therapeutics Development
University of Wisconsin School of Medicine and Public Health,
University of Wisconsin in Madison, USA

- T cell receptors and MHC diversity in risk, prognosis, and therapy for gliomas
 - Asst. Prof. Gary Kohanbash, Director, PNIO Laboratory, Faculty of the Department of Neurological Surgery at UPMC Children's Hospital of Pittsburgh, USA
- Novel pans solid tumor CAR T cells and first in human trial in DIPG
 - Assoc. Prof. Supannikar Tawinwung, Cellular Immunotherapy Research Unit, Faculty of Pharmaceutical Sciences, Chulalongkorn University; Facility Director, Cell and Gene Therapy Manufacturing Center, King Chulalongkorn Memorial Hospital, Thailand

12.00 – 13.00

Lunch Break

13.00 – 13.30

Sponsor Session I (**Care Dx**)

- Advancements in HLA loci and Permissive vs. Non-permissive Mismatches

13.30 – 14.00

Sponsor Session II (**Gen Dx**)

- Revolutionizing Rapid High Resolution HLA Typing with NGS-Turbo® and NGS-Pronto® using Oxford Nanopore Technologies sequencing

14.00 – 14.30

Short Oral Presentation I

Chair and Co-chair: Associate Professor Aussara Punya and Dr. Thanyavi Chinsuwan

- HLA-E triggers carcinogenesis in cervix
 - Prof. Ritu Aggarwal, Department of Immunopathology, Postgraduate Institute of Medical Education and Research, Chandigarh, India
- Workup and validation of high throughput method for HLA high resolution allelic genotyping, ABO typing and CMV IgG status
 - Assoc. Prof. Abha Chopra, Murdoch University, Australia
- Anti-TROP2 CAR-T cells secreting anti-NECTIN2 scFv effectively kill high TROP2 and NECTIN2 breast cancer cells
 - Dr. Suyanee Thongchot, Mahidol University, Thailand

14.30 – 16.00

Coffee Break with Poster Session I

14.00 – 16.30

Concurrent Workshop I (**Hillgene/BKGI**): Room 1201

14.30 – 15.00	Navigating Regulatory CMC Challenges in Advanced Therapies
15.00 – 15.30	International Perspective for Research and Development Strategies of Cell Drugs
15.30 – 16.00	BCMA CAR-T on Clinical Application and Technological Development Trends
16.00 – 16.30	Round table discussion and Networking: The Present and Future of Cell Therapeutics in Diversity Disease Treatment Applications
18.00 – 21.00	Welcome Reception (Mandarin Hotel, Managed by Centre Point)

Thursday Feb 6th, 2025 (Day 2)

8.30 – 10.00	<p>Plenary Session 3: Haematopoietic Stem Cell Transplantation</p> <p>Chair and Co-chair: Professor Oytip Nathalang and Dr. Pawinee Kupatawintu</p> <ul style="list-style-type: none"> ● HSCT: An update <ul style="list-style-type: none"> ○ Dr.Dianne De Santis, PhD, FFSc (RCPA) Clinical Scientist Department of Clinical Immunology, PathWest, Fiona Stanley Hospital Adjunct Senior Teaching Fellow, University of Western Australia ● Saving Lives Across Borders: The Asia-Pacific Unrelated Stem Cell Donor Registry Experience <ul style="list-style-type: none"> ○ Pawinee Kupatawintu, National Blood Center, the Thai Red Cross Society, Thailand
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- Prof. Ram Mohan Jaiswal, Mahatma Gandhi Medical College & Hospital, India
 - Garth Healey, Australian Bone Marrow Donor Registry, Australia
- 10.00 – 10.30 Coffee Break with Poster Session II
- 10.30 – 12.00 Plenary Session 4: HLA Genomics and Clinical Relevance
Chair and Co-chair: Dr. Nipapan Leetrakool and Assistant Professor Pattarin Tangtanatakul
- HLA in Diseases Susceptibility and Personalized Medicine
 - Prof. Katsushi Tokunaga, Director, Genome Medical Science Project, Research Institute, National Center for Global Health and Medicine (NCGM); Director, Central Biobank, National Center Biobank Network (NCBN), Japan
 - Clinical implementation of HLA long-read sequencing
 - A/Prof. Pajaree Lilitkarntakul, Center of Excellence in Clinical Pharmacokinetics and Pharmacogenomics, Department of Pharmacology, Faculty of Medicine, Chulalongkorn University, Thailand
 - HLA Typing and Beyond with Nanopore Sequencing
 - Dr. Thidathip Wongsurawat, Head Division of Medical Bioinformatics, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
 - Beyond Traditional HLA Typing: NGS and HLA Imputation for Comprehensive Analysis of HLA Alleles in Thai SLE Patients
 - Dr. Charles Khor Seik-Soon, Singapore Centre for Environmental Life Sciences Engineering, Nanyang Technological University, Singapore
- 12.00 – 13.00 Lunch Break
- 13.00 – 13.30 Sponsor Session III (Thermo Fisher): Development and Validation of a High-Throughput Method for HLA High-Resolution Allelic Genotyping, ABO Typing, and CMV IgG Status Detection
- 13.30 – 14.00 Sponsor Session IV (TBG): HLA Typing using Nanopore with Automation
- 14.00 – 14.30 Short Oral Session II
Chair: Assistant Professor Nampeung Anukul
- HLA Diversity & DSA in Australian Donors
 - Mr. Steven Hiho, Australian Redcross Lifeblood, Australia

- Lnc RNAs may predict allograft rejection
 - Dr. UMA KANGA, All India Institute of Medical Sciences, India
- Characterisation of the Human Blood Group
 - Dr. Fredrick Mobegi, Department of Clinical Immunology, PathWest Laboratory Medicine WA, Fiona Stanley Hospital Network, Australia

14.30 – 16.00

Coffee Break with Poster Session II

14.00 – 16.30

Concurrent Workshop II (**Werfen**): Room 1201

- Werfen HLA Innovation Station

14.00 – 14.10 Welcome to the Delegates

14.20 – 14.40 Transplant Innovation & what's in the Pipeline for the future

14.40 – 15.20 It's not just a Software – Match X

15.20 – 16.00 NGS Solutions – The new kid on the block

16.00 – 16.20 The Lesser-known Devil – Non HLA

18.00 – 21.00

Gala Dinner (Councilor and Speaker Plus Guest with ticket)

8.30 – 10.00

Plenary Session 5: Solid Organ Transplantation I

Chair and Co-chair: Rhonda Holdsworth and Araya Tatawatorn

- Implementation of Virtual Crossmatching in Australia: the laboratory experience
 - Fiona Hudson, Senior Scientist at VTIS, Melbourne, Australia
- Determining compatibility in Solid Organ Transplantation – Challenges and Opportunities
 - Rhonda Holdsworth
HLA Specialist and Clinical Scientist
Specialist Advisor, Transplantation and Immunogenetics Services
Pathology and Clinical Governance Division, University of Melbourne, Australia
- Non-HLA antibodies in solid organ transplant
 - Dr Lucy Sullivan, Scientific Director at Australian Red Cross LifeBlood, Australia

10.00 – 10.30

Coffee Break with Poster Session III

10.30 – 12.00

Interactive Session

- Case Studies for Complex Patients
Chair: Associate Professor Duangtawan Thammanichanond
 - Assoc. Prof. Duangtawan Thammanichanond,
Histocompatibility and Immunogenetics Laboratory, Faculty of
Medicine Ramathibodi Hospital, Mahidol University, Thailand
 - Assoc. Prof. Natavudh Townamchai, Department of Internal Medicine,
Faculty of Medicine, Chulalongkorn University, Thailand
 - Dr. Mary Diviney, Senior Clinical Scientist / Manager, Victorian
Transplantation and Immunogenetics Service (VTIS), Australian Red
Cross Lifeblood, Australia
 - Asst. Professor Peenida Skulratanasak
Division of Nephrology, Department of Medicine, Faculty of Medicine
Siriraj Hospital, Mahidol University, Thailand

12.00 – 13.00

Lunch Break

13.00 – 13.30

Special Lecture by the ASHI President

Chair and Co-chair: Associate Professor Pimpun Kitpoka and Associate Professor

Parichart Permpikul

- Expanding Access to Transplantation: Utilization of A2 Kidneys for O and B Recipient
 - Dr. Cathi Murphey, Director, Histocompatibility and Immunogenetics Laboratory, Southwest Immunodiagnostics, Inc. San Antonio, USA

13.30 – 14.00

Sponsor Session V (Thermo Fisher): Improving the Efficiency and Reliability of Post-Transplantation Monitoring and Prognosis with Donor-Derived Cell-Free DNA (dd-cfDNA)

14.00 – 14.30

Short Oral Session III

Chair and Co-chair: Associate Professor Sasijit Vejbaesya and Nuchjarnun

Choktaweesusuk

- Identification of Human Leukocyte Antigen mismatches from an in-situ renal allograft biopsy in a patient re-entering the kidney transplant waitlist
 - Mrs. Alicia Crisafio, PathWest Clinical Immunology, Australia
- Discrepancy in Deceased Donor Typing
 - Mrs. Arishma Lata, New Zealand Blood Services, New Zealand
- Imlifidase desensitisation: lab outlooks
 - Dr. Sarah Lloyd, Lifeblood, Australia

14.30 – 15.00

Coffee Break with Poster Session III

15.00 – 16.00

Plenary Session 6: Solid Organ Transplantation II

Chair and Co-chair: Professor Yingyos Avihingsanon and Dr. Suwasin

Udomkarnjananun

- Management of Highly sensitized kidney transplant recipients
 - Professor Jaeseok Yang, Division of Nephrology, Department of Internal Medicine, Yonsei University College of Medicine, Severance Hospital; Laboratory of Transplantation Immunology, Yonsei University Severance Hospital, Korea
 - Professor Yingyos Avihingsanon, Division of Nephrology, Department of Internal Medicine, Faculty of Medicine, Chulalongkorn University, Thailand

16.00 – 16.15

Concluding Remark and Closing