



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

5-7<sup>th</sup> 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 4<sup>th</sup>, 2025

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

8.30 – 10.00	MagSort workshop (Pre-Registration required)
10.00 – 10.30	Break
10.30 – 10.40	Welcome
10.40 – 12.30	<b>Pre-Transplant Session:</b> Investigating complex antibody patterns using Single Antigen with MagSort Case Study Presentations
11.30 – 12.30	Understanding Epitopes and making better decisions with HLA MatchMaker
12.30 – 13.30	Lunch
13.30 – 14.15	New approaches in HLA Typing Technology Case Study Presentations
14.15 – 15.00	<b>Post-Transplant Session:</b>

	Non-invasive biomarker monitoring using Cell Free DNA
	Case Study Presentations
15.00 – 15.30	Break
15.30 – 17.00	Cell Free DNA workshop (Pre-registration required)

**Wednesday Feb 5<sup>th</sup>, 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	<p>Plenary Session 1: Cellular Immunotherapy I</p> <p>Chair and Co-chair: Prof.Nattiya Hirankarn and Dr.Wannakorn Khopanlert</p> <ul style="list-style-type: none"> <li>● Role of HSCT vs CAR T cells in Hematologic Malignancy <ul style="list-style-type: none"> <li>○ Assoc. Prof. Kitsada Wudhikarn, Division of Hematology, Faculty of Medicine, Chulalongkorn University, Thailand</li> </ul> </li> <li>● Challenges in delivering cellular therapies for transplant recipients and cancer patients <ul style="list-style-type: none"> <li>○ Prof.Rajiv Khanna, Co-Director, Queensland Immunology Research Centre; Distinguished Scientist, Tumour Immunology Laboratory, QIMR Berghofer Medical Research Institute, Australia</li> </ul> </li> <li>● mRNA-based T cell engineering for treatment of virus-related cancer and virus infection <ul style="list-style-type: none"> <li>○ Prof.Antonio Bertoletti, Duke-NUS Graduate Medical School, Singapore</li> </ul> </li> </ul>
10.00 – 10.30	Coffee Break with Poster Session I
10.30 – 12.00	<p>Plenary Session 2: Cellular Immunotherapy II</p> <p>Chair and Co-chair: Prof.Chanitra Thuwajit and Dr.Koramit Suppipat</p> <ul style="list-style-type: none"> <li>● Clinical Application of Mesenchymal Stem Cells: Current Trends and Future Directions <ul style="list-style-type: none"> <li>○ Prof.Jacques Galipeau,</li> </ul> </li> </ul>

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)

- Advances in HLA Alleles and Haplotype Research for HCT

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

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"> <li>● HSCT: An update <ul style="list-style-type: none"> <li>○ 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</li> </ul> </li> <li>● Saving Lives Across Borders: The Asia-Pacific Unrelated Stem Cell Donor Registry Experience <ul style="list-style-type: none"> <li>○ Pawinee Kupatawintu, National Blood Center, the Thai Red Cross Society, Thailand</li> <li>○ Prof.Ram Mohan Jaiswal, Mahatma Gandhi Medical College &amp; Hospital), India</li> <li>○ Garth Healey, Australian Bone Marrow Donor Registry, Australia</li> </ul> </li> </ul>
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): Integrating High-Resolution and Hybrid Capture Technologies for HLA Typing

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
- 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
	<ul style="list-style-type: none"> <li>● Werfen HLA Innovation Station</li> </ul>
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)

Friday Feb 7th, 2025 (Day 3)

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 Principal Fellow (Hon),  
Dept of Microbiology and Immunology, University of Melbourne.
- 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
  - 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 Choktaweasuk
- 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