

ORGANISING COMMITTEE

CHAIRPERSON

Prof Louis TAN
National Neuroscience Institute

VICE-CHAIRPERSON

Prof TAN Eng King
National Neuroscience Institute

MEMBERS

Dr Chloe CHUNG
Tan Tock Seng Hospital

Dr DENG xiao
National Neuroscience Institute

Assoc Prof Prakash KUMAR MANHARLAL
National Neuroscience Institute

Dr LIM Ee Wei
National Neuroscience Institute

Dr Shermyn NEO
National Neuroscience Institute

Ms NG Hwee Lan
National Neuroscience Institute

Dr Dawn TAN
Tan Tock Seng Hospital

Assoc Prof TAY Kay Yaw
National Neuroscience Institute

Dr WAN Kai Rui
National Neuroscience Institute

Assoc Prof ZENG Li
National Neuroscience Institute

INTERNATIONAL FACULTY

Dr Giovanni ALBANI
Clinical and Research Institute Auxologico Italiano,
Italy

Prof Sun Ju CHUNG
Asan Medical Center, South Korea

Prof Martin MCKEOWN
University of British Columbia, Canada

Prof Brit MOLLENHAUER
University Medical Center Göttingen and Paracelsus-
Elena-Klinik Kassel, Germany

Prof Alice NIEUWBOER
KU Leuven, Belgium

Dr Onanong PHOKAEWVARANGKUL
Chulalongkorn University, Thailand

Prof Ronald POSTUMA
Montreal Neurological Institute, McGill University,
Canada

Prof Claudia TRENKWALDER
University Medical Center Goettingen, Germany

LOCAL FACULTY

Dr Mavis ANG Ke Xin
National Neuroscience Institute

Dr CAO Mian
Duke-NUS Medical School

Dr CHAN Lai Gwen
Tan Tock Seng Hospital

Dr Chan Ling Ling
Singapore General Hospital &
National Neuroscience Institute

Dr CHAO Yinxia

Dr CHEN Chen

National Neuroscience Institute

Assoc Prof FOO Jia Nee

Lee Kong Chian School of Medicine,
Nanyang Technological University

Dr Anusha JAYARAMAN

National Neuroscience Institute

Ms KO Ying Min Sarah

Tan Tock Seng Hospital

Ms LI Wei

National Neuroscience Institute

Assoc Prof Erle LIM

National University Health System

Ms LIM Yen Ching

Ministry of Education

Dr LIU Jinyue

Genome Institute of Singapore, A*STAR

Prof Rickie PATANI

Life Sciences Institute (LSI),
National University of Singapore, Singapore

Dr Brian PREMCHAND

Institute for Infocomm Research, A*STAR

Dr REN Meng Da

Lee Kong Chian School of Medicine,
Nanyang Technological University

Mr Sarivin VANAN

Lee Kong Chian School of Medicine,
Nanyang Technological University

Dr XIAO Bin

National Neuroscience Institute

Assoc Prof YU Feng Wei

Temasek Life Sciences Laboratory

Dr ZHOU Zhidong

National Neuroscience Institute

Lee Kong Chian School of Medicine,
Nanyang Technological University

Dr Rebecca HOE

National Neuroscience Institute

Assoc Prof Shawn JE

Duke-NUS Medical School

Dr Bernett LEE

Lee Kong Chian School of Medicine,
Nanyang Technological University

Dr LI Wei Shan

National Neuroscience Institute

Ms Phyllis LIM

Parkinson Society Singapore

Assoc Prof LING Shou-Chien

National University of Singapore

Assoc Prof LUO Jun

Lee Kong Chian School of Medicine,
Nanyang Technological University

Prof Sven PETERSON

National Neuroscience Institute

Dr Jeffery Yuan QIANG

DUKE-NUS Medical School

Dr Alfred SUN

DUKE-NUS Medical School

Dr Thomas WELTON

National Neuroscience Institute

Dr Crystal YEO

National Neuroscience Institute

Dr ZHANG Wei

National Neuroscience Institute

PROGRAMME

Pre-Symposium Seminar on Translational Research in Parkinson Disease and Related Movement Disorders

4 September 2025 (Thursday)

Time	Topic	Speakers
0830 – 0855	Registration	
0855 – 0900	Welcome Address	Prof Louis Tan Chairperson, Organising Committee
Session 1: Molecular Mechanisms and Therapeutic Targets in Parkinson's Disease		
0900 – 0925	LRRK2 Inhibition: Emerging Therapeutic Strategies for Parkinson Disease	Zeng Li National Neuroscience Institute, Singapore
0925 – 0950	Impaired Synaptic Membrane Trafficking in Parkinson's Disease	Cao Mian Duke-NUS Medical School, Singapore
0950 – 1015	Topic TBC	Yu Feng Wei Temasek Life Sciences Laboratory, Singapore
1015 – 1030	fMRI Assessment of Cell Transplant Therapy in A Parkinson's Disease Mouse Model	Jeffery Yuan Qiang Duke-NUS Medical School, Singapore
1030 – 1100	Tea Break	
Session 2: α-Synuclein Pathobiology and Metabolic Stress in Parkinson Disease		
1100 – 1125	What causes the death of dopaminergic neurons in Parkinson's disease?	Shawn Je Duke-NUS Medical School, Singapore
1125 – 1140	Deciphering Energy and Lipid Metabolism Stress in α -Synuclein-Associated Parkinson's Disease Using Drosophila Model	Ren Meng Da Lee Kong Chian School of Medicine, Nanyang Technological University
Session 3: Biomarker Discovery and Validation in Parkinson Disease		
1140 – 1205	Serum Metabolomic Biomarkers for Parkinson's Disease	Zhou Zhidong National Neuroscience Institute, Singapore
1205 – 1230	Early diagnostic biomarkers and therapeutic targets for Parkinson's Disease	Chao Yinxia National Neuroscience Institute, Singapore
1230 – 1400	Lunch	
Session 4: Genomic Insights and Cellular Models in Parkinson's Disease		
1400 – 1425	Insights from Genetics Studies of Parkinson Disease in East Asians	Foo Jia Nee Lee Kong Chian School of Medicine, Nanyang Technological University
1425 – 1450	Single-cell Transcriptomics Revealed Molecular Vulnerability in A Human Midbrain-like Organoid Model of Parkinson's Disease	Liu Jinyue Genome Institute of Singapore, A*STAR, Singapore
1450 – 1515	What Are In Your Human Midbrain Cultures?	Alfred Sun Duke-NUS Medical School, Singapore

Session 5: Gut-Brain Axis and Environmental Interactions in Parkinson Disease		
1515 – 1540	Exploring The Interface Between Immune System and Microbiome in Parkinson's Disease	Dr Giovanni Albani, Clinical and Research Institute Auxologico Italiano, Italy
1540 – 1555	Gut Microbiome and Parkinson Disease	Anusha Jayaraman National Neuroscience Institute, Singapore
1555 – 1610	Microbiome Product Indole Promotes Dopaminergic Neuron Development and Survival During Embryonic and Postnatal Stages	Zhang Wei National Neuroscience Institute, Singapore
1610 – 1625	Exploring Trichloroethylene on The Gut-brain Axis in Parkinson's Disease	Sarivin Vanan Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
1625 – 1645	Tea Break	
Session 6: Movement Disorder in Neurodegeneration		
1645 – 1710	Decoding ALS Using Human Stem Cells	Rickie Patani Life Sciences Institute (LSI), National University of Singapore, Singapore
1710 – 1735	Topic TBC <i>(Pre-recorded Lecture)</i>	Crystal Yeo National Neuroscience Institute, Singapore
1735 – 1800	Glial Contribution in Neurodegenerative Diseases	Ling Shou-Chien National University of Singapore, Singapore
End of Pre-Symposium Seminar		

**Programme subject to change.*

PROGRAMME

Pre-Symposium Workshop on Physiotherapy Management of Patients with Parkinson Disease

Part 1:		
Time	Topic	Speakers
0830 – 0855	Registration	
0855 – 0900	Welcome and Introduction	
0900 – 1000	Lecture 1: New Insights to Mechanisms Underlying Freezing of Gait	Alice Nieuwboer University of Leuven, Belgium
1000 – 1030	Lecture 2: Evidence-based Management for FOG	Alice Nieuwboer University of Leuven, Belgium
1030 – 1100	Break	
1100 – 1230	Practical 1: Strategies for managing FOG	Alice Nieuwboer University of Leuven, Belgium
1230 – 1330	Lunch	
1330 – 1500	Lecture and Practical/Group Activity: Updates in Dual Tasking (Implications for Rehabilitation)	Alice Nieuwboer University of Leuven, Belgium Chloe Chung Tan Tock Seng Hospital, Singapore Yee Zhi Rong Tan Tock Seng Hospital, Singapore Sarah Lim Singapore General Hospital, Singapore Dawn Tan Singapore General Hospital, Singapore
1500 – 1630	Case Studies & Closing Remarks	Alice Nieuwboer University of Leuven, Belgium Chloe Chung Tan Tock Seng Hospital, Singapore Yee Zhi Rong Tan Tock Seng Hospital, Singapore Sarah Lim Singapore General Hospital, Singapore Dawn Tan Singapore General Hospital, Singapore
End of Part 1		

**Programme subject to change.*

PROGRAMME

Main Symposium Day 1 – 5 September 2025 (Friday), The Ngee Ann Kongsi Auditorium

Time	Topic	Speakers
0800 – 0830	Registration	
0830 – 0840	Opening Ceremony – Welcome Address	Prof Louis Tan Chairperson, Organising Committee
0840 – 0855	Address by Guest-of-Honour	Guest-of-Honour: TBC
0855 – 0930	Patient-Caregiver Dialogue Session	Hosted by Prof Prakash
Plenary Session 1		
0930 – 1000	Updates in Translational Clinical Research in Parkinson Disease and Movement Disorders in National Neuroscience Institute	Tan Eng King National Neuroscience Institute, Singapore
1000 – 1030	Latest Guidelines on the Management of Parkinson Disease	Claudia Trenkwalder University Medical Center Goettingen, Germany
1030 – 1100	Tea Break	
Plenary Session 2		
1100 – 1130	Latest Advances in Biomarkers for Parkinson Disease	Brit Mollenhauer University Medical Center Göttingen and Paracelsus-Elena-Klinik Kassel, Germany
1130 – 1200	Latest Updates on the Genetics of Parkinson Disease	Sun Ju Chung Asan Medical Center, South Korea
1200 – 1230	Technology for Neurorehabilitation in Parkinson Disease: Challenges and Pitfalls	Alice Nieuwboer University of Leuven, Belgium
1230 – 1400	Lunch • 1300 – 1400: Poster Presentation (Level 1 Foyer)	
Parallel Sessions		
1400 – 1730	Parallel Sessions A, B and C	
End of Main Symposium Day One		

**Programme subject to change.*

PROGRAMME

Main Symposium Day 1 – 5 September 2025 (Friday)

Parallel Sessions (PS)

PS A: Movement Disorders Teaching Course		
Time	Topic	Speakers
1400 – 1425	Sleep Disorders in Parkinson Disease: Assessment and Treatment	Claudia Trenkwalder University Medical Center Goettingen, Germany
1425 – 1450	Movement Disorders in The Intensive Care Unit and Movement Disorders Emergencies	Dr Onanong Phokaewvarangkul Chulalongkorn University, Thailand
1450 – 1515	Overview of Tardive Syndrome	Lim Ee Wei National Neuroscience Institute, Singapore
1515 – 1530	Q&A Session	All speakers
1530 – 1600	Tea Break	
1600 – 1625	Clinical Approach to The Diagnosis and Management of Tremors	Li Wei Shan National Neuroscience Institute, Singapore
1625 – 1650	Clinical Approach to The Diagnosis and Management of Myoclonus	Erle Lim National University of Singapore, Singapore
1650 – 1715	Clinical Approach to The Diagnosis and Management of Chorea	Prakash Kumar Manharlal National Neuroscience Institute, Singapore
1715 – 1730	Q&A Session	All speakers
End of Parallel Session A		

PS B: Community Care in Parkinson Disease		
Time	Topic	Speakers
1400 – 1410	Overview of Community Care in Parkinson Disease	Tay Kay Yaw National Neuroscience Institute, Singapore
1410 – 1440	What can Exercise Offer for Gait and Balance in Parkinson Disease?	Alice Nieuwboer University of Leuven, Belgium
1440 – 1500	Parkinson Society Singapore: One Stop Niche Centre and Sanctuary for Parkinson Disease Patients	Lim Yen Ching Ministry of Education, Singapore
1500 – 1520	Community Care Partners Program: The Backbone of Parkinson's Rehabilitation	Ng Hwee Lan National Neuroscience Institute, Singapore
1520 – 1530	Q&A Session	All speakers
1530 – 1600	Tea Break	
1600 – 1620	Standing by Your Side: NNI Community Health Program	Li Wei National Neuroscience Institute, Singapore
1620 – 1655	Compassionate Care in the Final Chapter: Addressing the Neuropalliative Needs of Parkinson Disease Patient in The Community	Mavis Ang Ke Xin National Neuroscience Institute, Singapore
1655 – 1715	Rallying The Community for Parkinson Disease: Advocacy in Parkinson Disease	Phyllis Lim Parkinson Society Singapore, Singapore
1715 – 1730	Q&A Session	All speakers
End of Parallel Session B		

**Programme subject to change.*

PS C: Parkinson Disease Progression and Biomarkers		
Time	Topic	Speakers
1400 – 1425	Overview of Parkinson Disease Progression and Biomarkers	Deng Xiao National Neuroscience Institute, Singapore
1425 – 1450	Genetic Biomarkers for the Progression of Parkinson Disease	Sun Ju Chung Asan Medical Center, South Korea
1450 – 1515	The Role of Bioinformatics in Parkinson Disease Biomarker Discovery	Bernett Lee Lee Kong Chian School of Medicine, Nanyang Technological University
1515 – 1530	Q&A Session	All speakers
1530 – 1600	Tea Break	
1600 – 1625	Overview of Alpha Synuclein as a Biomarker for Parkinson Disease	Xiao Bin National Neuroscience Institute, Singapore
1625 – 1650	Impact of Nigrosome-1 Imaging in the Radiology Clinic, Automation and 3-Year Follow-Up	Chan Ling Ling Singapore General Hospital & National Neuroscience Institute, Singapore
1650 – 1715	Shape Analysis of Brain Structures	Thomas Welton National Neuroscience Institute, Singapore
1715 – 1730	Q&A Session	All speakers
End of Parallel Session C		

**Programme subject to change.*

PROGRAMME

Main Symposium Day 2 – 6 September 2025 (Saturday), The Ngee Ann Kongsi Auditorium

Time	Topic	Speakers
0800 – 0830	Registration	
0830 – 0900	Opening for Day 2 – CCPP Presentation	
Plenary Session 3		
0900 – 0930	Overview of Prodromal Parkinson Disease	Ronald Postuma Montreal Neurological Institute, McGill University, Canada
0930 – 1000	The Design of Platform Trials for Parkinson Disease Therapies	Brit Mollenhauer University Medical Center Göttingen and Paracelsus-Elena-Klinik Kassel, Germany
1000 – 1030	Tea Break	
Plenary Session 4		
1030 – 1100	Prognosis of Parkinson Disease and Its Subtypes	Ronald Postuma Montreal Neurological Institute, McGill University, Canada
1100 - 1130	Use of Artificial Intelligence to Monitor Parkinson Disease	Martin McKeown University of British Columbia, Canada
1130 – 1200	Role of Microbiome Dynamics in Biological Ageing Relevant to Parkinson Disease	Sven Pettersson National Neuroscience Institute, Singapore
1200 – 1330	Lunch <ul style="list-style-type: none">1230 – 1330: Poster Presentation (Level 1 Foyer)	
Parallel Sessions		
1330 – 1530	Parallel Sessions D, E and F	
1530 – 1600	Tea Break	
Video Presentations – The Ngee Ann Kongsi Auditorium Chairpersons: Dr Shermyn Neo & Assoc Prof Prakash		
1600 – 1715	Video Presentations	
1715 - 1730	Closing Comments	
End of Main Symposium Day Two		

**Programme subject to change.*

PROGRAMME

Symposium Day 2 – 6 September 2025 (Saturday)

Parallel Sessions (PS)

PS D: Neurotechnology in Parkinson and Movement Disorders		
Time	Topic	Speakers
1330 – 1355	Passive, Vision-less, Contactless (PVC) Sensing Technologies in Parkinson Disease	Luo Jun Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
1355 – 1420	Validating Digital Biomarkers in Parkinson Disease	Chen Chen Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
1420 – 1445	Technology-driven Approaches to Treatment in Parkinson Disease	Shermyn Neo National Neuroscience Institute, Singapore
1445 – 1510	Ethical Considerations of The Use of Emerging Technologies in Parkinson Disease	Martin McKeown University of British Columbia, Canada
1510 – 1530	Q&A Session	All speakers
1530 – 1600	Tea Break	
End of Parallel Session D		

PS E: Rehabilitation for Parkinson Disease		
Time	Topic	Speakers
1330 – 1355	Parkinson Disease Home-based Gaming: Exercise Trial Results	Chloe Chung Tan Tock Seng Hospital, Singapore
1355 – 1420	Tele Group Speech Therapy for People with Parkinson Disease	Ko Ying Min Sarah Tan Tock Seng Hospital, Singapore
1420 – 1445	Managing Postural Hypotension: Implications for Rehabilitation	Rebecca Hoe National Neuroscience Institute, Singapore
1445 – 1510	Building Mental Resilience to Optimise Rehabilitation Outcomes	TBC
1510 – 1530	Q&A Session	All speakers
1530 – 1600	Tea Break	
End of Parallel Session E		

PS F: Neurostimulation in Parkinson and Movement Disorders		
Time	Topic	Speakers
1330 – 1400	Optimising Deep Brain Stimulation (DBS) Programming Using Advanced Technologies	Onanong Phokaewvarangkul Chulalongkorn University, Thailand
1400 – 1430	Artificial Intelligence in Deep Brain Stimulation	Brian Premchand Institute for Infocomm Research, A*Star
1430 – 1500	Neuropsychiatric Effects of DBS and Their Implications on Pre-DBS Assessment	Chan Lai Gwen Tan Tock Seng Hospital, Singapore
1500 – 1530	Q&A Session	
1530 – 1600	Tea Break	
End of Parallel Session F		