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National Neuroscience Institute

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**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	<b>Prof Louis Tan</b> Chairperson, Organising Committee
<b>Session 1: Pathogenesis in Parkinson Disease</b>		
0900 – 0925	Topic TBC	<b>TBC</b>
0925 – 0950	Impaired Synaptic Membrane Trafficking in Parkinson's Disease	<b>Cao Mian</b> Duke-NUS Medical School, Singapore
0950 – 1015	Topic TBC	<b>Yu Feng Wei</b> Temasek Life Sciences Laboratory, Singapore
1015 – 1030	fMRI Assessment of Cell Transplant Therapy in A Parkinson's Disease Mouse Model	<b>Jeffery Yuan Qiang</b> Duke-NUS Medical School, Singapore
<b>1030 – 1100</b>	<b>Tea Break</b>	
<b>Session 2: aSN in Parkinson Disease</b>		
1100 – 1125	What causes the death of dopaminergic neurons in Parkinson's disease?	<b>Shawn Je</b> Duke-NUS Medical School, Singapore
1125 – 1140	Deciphering Energy and Lipid Metabolism Stress in $\alpha$ -Synuclein-Associated Parkinson's Disease Using Drosophila Model	<b>Ren Meng Da</b> Lee Kong Chian School of Medicine, Nanyang Technological University
<b>Session 3: Biomarker in Parkinson Disease</b>		
1140 – 1205	Serum Metabolomic Biomarkers for Parkinson's Disease	<b>Zhou Zhidong</b> National Neuroscience Institute, Singapore
1205 – 1230	Serum Metabolomic Biomarkers for Parkinson's disease	<b>Chao Yinxia</b> National Neuroscience Institute, Singapore
<b>1230 – 1400</b>	<b>Lunch</b>	
<b>Session 4: Genomic and Transcriptomic in Parkinson Disease</b>		
1400 – 1425	Insights from Genetics Studies of PD in East Asians	<b>Foo Jia Nee</b> 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	<b>Liu Jinyue</b> Genome Institute of Singapore, A*STAR, Singapore
1450 – 1515	What are in your human midbrain cultures?	<b>Alfred Sun</b> Duke-NUS Medical School, Singapore
<b>Session 5: Gut-microbiome in Parkinson Disease</b>		
1515 – 1540	Exploring the interface between immune system and microbiome in Parkinson's disease	<b>Giovanni Albani</b>
1540 – 1555	Gut microbiome and Parkinson Disease	<b>Anusha Jayaraman</b> National Neuroscience Institute, Singapore
1555 – 1610	Microbiome product indole promotes dopaminergic neuron development and survival during embryonic and postnatal stages	<b>Zhang Wei</b> National Neuroscience Institute, Singapore

1610 – 1625	Exploring Trichloroethylene on the Gut-brain Axis in Parkinson's Disease	<b>Sarivin Vanan</b> Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
<b>1625 – 1645</b>	<b>Tea Break</b>	
<b>Session 6: Movement Disorder in Neurodegeneration</b>		
1645 – 1710	Decoding ALS Using Human Stem Cells	<b>Rickie Patani</b> Life Sciences Institute (LSI), National University of Singapore, Singapore
1710 – 1735	Topic TBC	<b>Crystal Yeo</b> National Neuroscience Institute, Singapore
1735 – 1800	Glial Contribution in Neurodegenerative Diseases	<b>Ling Shou-Chien</b> National University of Singapore, Singapore
<b>End of Pre-Symposium Seminar</b>		

*\*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	<b>Alice Nieuwboer</b> University of Leuven, Belgium
1000 – 1030	Lecture 2: Evidence-based Management for FOG	<b>Alice Nieuwboer</b> University of Leuven, Belgium
<b>1030 – 1100</b>	<b>Break</b>	
1100 – 1230	Practical 1: Strategies for managing FOG	<b>Alice Nieuwboer</b> University of Leuven, Belgium
<b>1230 – 1330</b>	<b>Lunch</b>	
1330 – 1500	Lecture and Practical/Group Activity: Updates in Dual Tasking (Implications for Rehabilitation)	<b>Alice Nieuwboer</b> University of Leuven, Belgium  <b>Chloe Chung</b> Tan Tock Seng Hospital, Singapore  <b>Yee Zhi Rong</b> Tan Tock Seng Hospital, Singapore  <b>Sarah Lim</b> Singapore General Hospital, Singapore  <b>Dawn Tan</b> Singapore General Hospital, Singapore
1500 – 1630	Case Studies & Closing Remarks	<b>Alice Nieuwboer</b> University of Leuven, Belgium  <b>Chloe Chung</b> Tan Tock Seng Hospital, Singapore  <b>Yee Zhi Rong</b> Tan Tock Seng Hospital, Singapore  <b>Sarah Lim</b> Singapore General Hospital, Singapore  <b>Dawn Tan</b> Singapore General Hospital, Singapore
End of Part 1		

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## PROGRAMME

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

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

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## 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	<b>Claudia Trenkwalder</b> University Medical Center Goettingen, Germany
1425 – 1450	Movement Disorders in The Intensive Care Unit and Movement Disorders Emergencies	<b>Dr Onanong Phokaewvarangkul</b> Chulalongkorn University, Thailand
1450 – 1515	Overview of Tardive Syndrome	<b>Lim Ee Wei</b> National Neuroscience Institute, Singapore
1515 – 1530	Q&A Session	<b>All speakers</b>
<b>1530 – 1600</b>	<b>Tea Break</b>	
1600 – 1625	Clinical Approach to the Diagnosis and Management of Tremors	<b>Li Wei Shan</b> National Neuroscience Institute, Singapore
1625 – 1650	Clinical Approach to The Diagnosis and Management of Myoclonus	<b>Erle Lim</b> National University of Singapore, Singapore
1650 – 1715	TBC	<b>Prakash Kumar Manharlal</b> National Neuroscience Institute, Singapore
1715 – 1730	Q&A Session	<b>All speakers</b>
<b>End of Parallel Session A</b>		

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

**End of Parallel Session B**

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

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## 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	
<b>Plenary Session 3</b>		
0900 – 0930	Overview of Prodromal Parkinson Disease	<b>Ronald Postuma</b> Montreal Neurological Institute, McGill University, Canada
0930 – 1000	The Design of Platform Trials for Parkinson Disease Therapies	<b>Brit Mollenhauer</b> University Medical Center Göttingen and Paracelsus-Elena-Klinik Kassel, Germany
<b>1000 – 1030</b>	<b>Tea Break</b>	
<b>Plenary Session 4</b>		
1030 – 1100	Prognosis of Parkinson Disease and Its Subtypes	<b>Ronald Postuma</b> Montreal Neurological Institute, McGill University, Canada
1100 - 1130	Use of Artificial Intelligence to Monitor Parkinson Disease	<b>Martin McKeown</b> University of British Columbia, Canada
1130 – 1200	Role of Microbiome Dynamics in Biological Ageing Relevant to Parkinson Disease	<b>Sven Pettersson</b> National Neuroscience Institute, Singapore
<b>1200 – 1330</b>	<b>Lunch</b> • 1230 – 1330: Poster Presentation (Level 1 Foyer)	
<b>Parallel Sessions</b>		
1330 – 1530	Parallel Sessions D, E and F	
<b>1530 – 1600</b>	<b>Tea Break</b>	
<b>Video Presentations – The Ngee Ann Kongsi Auditorium</b> <b>Chairpersons: Dr Shermyn Neo &amp; Assoc Prof Prakash</b>		
1600 – 1715	Video Presentations	
1715 - 1730	Closing Comments	
<b>End of Main Symposium Day Two</b>		

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## 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	<b>Luo Jun</b> Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
1355 – 1420	Validating Digital Biomarkers in Parkinson Disease	<b>Chen Chen</b> Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
1420 – 1445	Technology-driven Approaches to Treatment in Parkinson Disease	<b>Shermyn Neo</b> National Neuroscience Institute, Singapore
1445 – 1510	Ethical Considerations of The Use of Emerging Technologies in Parkinson Disease	<b>Martin McKeown</b> University of British Columbia, Canada
1510 – 1530	Q&A Session	<b>All speakers</b>
1530 – 1600	<b>Tea Break</b>	
End of Parallel Session D		

PS E: Rehabilitation for Parkinson Disease		
Time	Topic	Speakers
1330 – 1355	Parkinson Disease Home-based Gaming: Exercise Trial Results	<b>Chloe Chung</b> Tan Tock Seng Hospital, Singapore
1355 – 1420	Tele Group Speech Therapy for People with Parkinson Disease	<b>Ko Ying Min Sarah</b> Tan Tock Seng Hospital, Singapore
1420 – 1445	Managing Postural Hypotension: Implications for Rehabilitation	<b>Rebecca Hoe</b> National Neuroscience Institute, Singapore
1445 – 1510	Building Mental Resilience to Optimize Rehabilitation Outcomes	<b>TBC</b>
1510 – 1530	Q&A Session	<b>All speakers</b>
1530 – 1600	<b>Tea Break</b>	
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	<b>Onanong Phokaewvarangkul</b> Chulalongkorn University, Thailand
1400 – 1430	Artificial Intelligence in Deep Brain Stimulation	<b>Brian Premchand</b> Institute for Infocomm Research, A*Star
1430 – 1500	Neuropsychiatric Effects of DBS and Their Implications on Pre-DBS Assessment	<b>Chan Lai Gwen</b> Tan Tock Seng Hospital, Singapore
1500 – 1530	Q&A Session	
1530 – 1600	<b>Tea Break</b>	
End of Parallel Session F		

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