MDS-AOS unites to advance Movement Disorder science.

Final Program

2021 VIRTUAL

AOPMC

June 4–6, 2021

International Parkinson and Movement Disorder Society Asian & Oceanian Section

www.aopmc.org
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### Become an Associate Member of MDS

**MDS Associate Membership Program**

Non-members attending the 2021 Virtual AOPMC have the opportunity to receive membership with MDS absolutely free for a year. Eligible participants will be invited by email to apply for free Associate Membership. Interested individuals are encouraged to apply online within 30 days of contact.

**Questions?** membership@movementdisorders.org

**MDS Benefits Include:**
- Peer Reviewed Journals: Movement Disorders and Movement Disorders Clinical Practice
- Quarterly Newsletter: Moving Along
- Reduced Course Registration Rates
- Online Resources: CME Activities; Streaming Content; Teaching Slides; Training Videos; and a Video Library with over 1,000 searchable videos

Join over 10,000 movement disorder professional across the globe in working to disseminate knowledge and promote research to advance the field.

www.movementdisorders.org/associate-membership
WELCOME

We are excited for you to join us for the 7th Asian and Oceanian Parkinson’s Disease and Movement Disorders Congress (AOPMC), taking place in a virtual format on June 4-6, 2021.

While this virtual meeting will not replace the live AOPMC experience, we are looking forward to engaging with our regional community of clinicians, scientists, and healthcare professionals on our interactive platform. We promise to deliver the best quality science with innovative networking and educational opportunities supported by virtual technologies.

We are grateful for your continued support of the MDS-AOS and hope you will reach out to those MDS-AOS members in your area to join us this June for the 2021 Virtual AOPMC.

Sincerely,

Roongroj Bhidayasiri, MD, FRCP, FRCPI
Chair, MDS-Asian and Oceanian Section

ABOUT MDS

The International Parkinson and Movement Disorder Society (MDS) is a professional society of clinicians, scientists, and other healthcare professionals who are interested in Parkinson’s disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic movement disorders, and abnormalities in muscle tone and motor control.

PURPOSE, MISSION AND GOALS

Purpose:
The objective and mission of the Society shall be to advance the neurological sciences pertaining to Movement Disorders; to improve the diagnosis and treatment of patients; to operate exclusively for scientific, scholarly and educational purposes; to encourage research; to provide forums, such as medical journals, scientific symposia and International Congresses, for sharing ideas and for advancing the related clinical and scientific disciplines; to encourage interest and participation in the activities of the Society among healthcare and allied professionals and scientists; and to collaborate with other related professional and lay organizations.

Mission and Goals:
To disseminate knowledge about Movement Disorders by:
• Providing educational programs for clinicians, scientists and the general public designed to advance scientific and clinical knowledge about Movement Disorders
• Sponsoring International Congresses and Symposia on Movement Disorders
• Collaborating with other international organizations and lay groups
• Publishing journals, videotapes and other collateral materials committed to high scientific standards and peer review

To promote research into causes, prevention and treatment of Movement Disorders by:
• Using the Society’s influence and resources to enhance support for research
• Facilitating the dissemination of information about research
• Encouraging the training of basic and clinical scientists in Movement Disorders and related disorders

For the purposes of favorably affecting the care of patients with Movement Disorders, the Society will provide expertise, advice and guidance to:
• Regulatory agencies to assist them in the approval process of safe and effective therapeutic interventions
• The public (media) and patient support groups by informing them of new research and therapeutic advances
• Governments to assist them in the development of policies that affect support of research and patient care
• Educational efforts to assist in developing standards of training in the specialty
ABOUT MDS

MDS OFFICERS

President
Claudia Trenkwalder
Kassel

President-Elect
Francisco Cardoso
Belo Horizonte

Secretary
Bastiaan Bloem
Nijmegen

Secretary-Elect
Charles Adler
Scottsdale

Treasurer
Louis Tan
Singapore

Treasurer-Elect
Irene Litvan
La Jolla

Past-President
Christopher Goetz
Chicago

MDS INTERNATIONAL EXECUTIVE COMMITTEE

Shengdi Chen, Shanghai
Mark Edwards, London
Cristian Falup-Pecurariu, Braşov
Joaquim Ferreira, Lisbon
Marina de Koning-Tijssen, Groningen
Alice Nieuwboer, Leuven
D. James Surmeier, Chicago
Pille Taba, Tartu
Mayela Rodriguez-Violante, Mexico City
Ruey-Meei Wu, Taipei

PAST-PRESIDENTS

2017-2019 Christopher Goetz, Chicago
2015-2017 Oscar Gershanik, Buenos Aires
2013-2015 Matthew Stern, Philadelphia
2011-2013 Günther Deuschl, Kiel
2009-2011 Philip Thompson, Adelaide
2007-2009 Anthony Lang, Toronto
2005-2006 Andrew Lees, London
2003-2004 C. Warren Olanow, Rye
2001-2002 Werner Poeke, Innsbruck
1999-2000 Mark Hallett, Bethesda
1997-1998 Eduardo Tolosa, Barcelona
1995-1996 Joseph Jankovic, Bellaire
1988-1991 Stanley Fahn, Hastings-on-Hudson

INTERNATIONAL MEDICAL SOCIETY FOR MOTOR DISTURBANCES PAST-PRESIDENTS

1991-1992 Bastian Conrad, Munich
1989-1990 Mark Hallett, Bethesda
1987-1988 Mario Manfredi, Rome
1985-1986 C. David Marsden, London

MDS INTERNATIONAL SECRETARIAT

International Parkinson and Movement Disorder Society
555 East Wells Street, Suite 1100
Milwaukee, WI 53202-3823 USA
Tel: +1 414-276-2145
Fax: +1 414-276-3349
Email: info@movementdisorders.org
Website: www.movementdisorders.org
HISTORY OF MDS-AOS

Formed in 2006, the MDS-AOS mission is to represent and promote the International Parkinson and Movement Disorder Society (MDS) in Asia and Oceania. MDS-AOS aims to facilitate communication between clinicians and researchers; disseminate updated knowledge about Movement Disorders; improve quality of life and independence of movement disorders patients and caregivers; and promote research in Movement Disorders within the region.

ABOUT MDS-AOS

MDS-AOS Membership is open to all members of MDS within the Asian and Oceanian region, and as of December 31, 2020 the MDS-AOS represents 28% of the total MDS membership with 3,275 members from 41 territories. Since the last AOPMC in 2019, the MDS-AOS has hosted eight in-person educational courses and seven online educational programs, with an additional six online courses planned for 2021.

GET INVOLVED WITH MDS-AOS

To enhance your involvement and awareness of additional MDS-AOS activities, the Section invites you to become a MDS Member and to join the MDS-AOS Facebook group. This online discussion group launched this year as a place for those interested in movement disorders in Asia to discuss related topics and share articles and activities of interest to the region.

For further information on MDS-AOS or its educational opportunities, please visit www.movementdisorders.org/MDS-AOS.

MDS-AOS UPCOMING EVENTS

Registration is FREE for MDS Members

MDS-AOS Video Case Discussion Series
July 11, 2021, October 3, 2021, December 5, 2021

MDS-AOS 4th Allied Health Rehabilitation Course for Parkinson’s Disease and Other Movement Disorders
July 24-25, 2021

MDS-AOS Basic Science Summer School
August 7-8, 2021

MDS-AOS 3rd School for Young Neurologists
October 15-17, 2021

MDS-AOS Unique Movement Disorders in Asia and Oceania
November 5-6, 2021

MDS-AOS OFFICERS

Chair
Roongroj Bhidayasiri
Bangkok

Chair-Elect
Raymond Rosales
Quezon City

Past-Chair
Beomseok Jeon
Seoul

Secretary
Pramod Pal
Bangalore

Secretary-Elect
Yih-Ru Wu
Taipei

Treasurer
Baorong Zhang
Hangzhou

Treasurer-Elect
Ritsuko Hanajima
Tottori-ken
AOPMC ORGANIZING COMMITTEES

OVERSIGHT COMMITTEE (AOC)
Chair: Roongroj Bhidayasiri, Bangkok
Piu Chan, Beijing
Jong-Min Kim, Seongnam
Pramod Pal, Bangalore
Raymond Rosales, Quezon City
Louis Tan, Singapore
Ruey-Mei Wu, Taipei
Baorong Zhang, Hangzhou

SCIENTIFIC PROGRAM COMMITTEE (ASPC)
Chair: Nobutaka Hattori, Tokyo
Co-Chair: Victor Fung, Sydney
Zakiyah Al-Daajani, Doha
Tim Anderson, Christchurch
Roongroj Bhidayasiri, Bangkok
Beomseok Jeon, Seoul
Jong-Min Kim, Seongnam
Hrishikesh Kumar, Kolkata
Shen-Yang Lim, Petaling Jaya
Hideki Mochizuki, Osaka
Raymond Rosales, Quezon City
Huifang Shang, Chengdu
Chingiz Shashkin, Almaty
Ryosuke Takahashi, Kyoto
Eng-King Tan, Singapore
Yoshio Tsuibo, Fukuoka
Yoshikazu Uegawa, Fukushima
Yih-Ru Wu, Taipei

MDS-AOS SOCIAL MEDIA SUB-COMMITTEE
Chair: Hrishikesh Kumar, Kolkata
Co-Chair: Yih-Ru Wu, Taipei
Han-Lin Chiang, New Taipei City
Deng Jun Guo, Hangzhou
Taku Hatano, Tokyo
Chien-Tai Hong, New Taipei City
Woong-Woo Lee, Seoul
Thien Thien Lim, Georgetown
Shivam Mittal, Abu Dhabi
Mengyue Niu, Shanghai
Cholpon Shambetova, Bishkek
Jirada Sringean, Pathumwan
Frandy Susatia, Jakarta
Han Wang, Beijing

MDS-AOS EXECUTIVE COMMITTEE:
Jawad Bajwa, Riyadh
Jin Whan Cho, Seoul
Ying-Zu Huang, Taipei
Priya Jagota, Bangkok
Jong-Min Kim, Seongnam
Simon Lewis, Sydney
Chon-Haw Tsai, Taichung
Xiao-Ping Wang, Shanghai
Hirohisa Watanabe, Nagoya

MDS-AOS EDUCATION COMMITTEE
Jong-Min Kim, Seongnam
Piu Chan, Beijing
Byambasuren Dagvajantsan, Ulaanbaatar
Taku Hatano, Tokyo
Onanong Jitkritsadakul, Bangkok
Hanan Khalil, Irbid
Hrishikesh Kumar, Kolkata
Kishore Kumar, Sydney
Thien Thien Lim, Tanjung Bunga
Chin-Hsien Lin, Taipei
Jun Liu, Shanghai
Arlene Ng, Quezon City
Cholpon Shambetova, Bishkek
Frandy Susatia, Jakarta
AOPMC EVENTS

The 2021 Virtual AOPMC scientific sessions, sponsored symposia and the Video Tournament will be available on demand on the platform for free until August 1, 2021 for those participants who have registered by June 6, 2021 and for all MDS Members.

PRE-CONGRESS COURSE: PRACTICAL MANAGEMENT OF MOVEMENT DISORDERS

Friday, June 4, 2021
11:00 JST - 15:45 JST

This course aims to provide a comprehensive review of practical management of movement disorders for general neurologists and physicians to easily understand and enjoy. After completing the course, you will have new insights into movement disorders phenomenology and pathophysiology, basic genetics, evaluation and management of Parkinson’s disease and Parkinson-plus syndromes, multidisciplinary approach for nonmotor symptoms, and diagnosis and treatment of all hyperkinetic disorders.

DEVELOPMENT SESSION SERIES

Friday, June 4, 2021
13:00 JST - 14:30 JST
Saturday, June 5, 2021
15:00 JST - 16:30 JST

These live interactive sessions provide participants with insight on the best approaches to pursue and build on a career in Movement Disorders.

MEET THE EXPERT DISCUSSIONS

Friday, June 4, 2021
14:45 JST - 15:45 JST

Meet the Experts:
Zakiyah Aldaajani, Dhahran
Shengdi Chen, Shanghai
*A This Expert’s session will be held in Chinese.
Asha Kishore, Trivandum
Barry Snow, Auckland
Ryosuke Takahashi, Kyoto
*A This Expert’s session will be held in Japanese.

Each Meet the Expert discussion will be in an interactive roundtable format and is meant to answer participants’ questions and to provide them with practical knowledge on how to be successful in their careers. The session will begin with a brief overview from the Expert providing details on what they do, and their journey to get there. The discussion will then transition into a question and answer format.

Space is limited for each discussion and advance registration for the discussions is mandatory. Please visit the AOPMC website at www.aopmc.org for more information. If you have already registered with one of the Experts, please note that you will receive an email from MDS with the link to join the Zoom meeting.

OPENING CEREMONY

Friday, June 4, 2021
16:00 - 16:30 JST

All participants are encouraged to attend the Opening Ceremony to officially kick off the Virtual AOPMC.

VIDEO TOURNAMENT

Saturday, June 5, 2021
18:45 JST - 20:45 JST

Masters of Ceremony:
Han-Lin Chiang, New Taipei City
Victor Fung, Sydney

Clinical Experts:
Beomseok Jeon, Seoul
Asha Kishore, Trivandum
Ai Huey Tan, Kuala Lumpur
Eng-King Tan, Singapore
Yih-Ru Wu, Taipei

Please join Masters of Ceremony, Victor Fung and Han-Lin Chiang, during the LIVE Video Tournament where participants will witness clinical experts analyze and discuss a case by phenomenology, syndromic classification and differential diagnosis. The audience will be able to submit comments via a live chat. This event will challenge participants to improve diagnostic skills with unique and interesting cases. This event is open to all registered delegates.

The 2021 Virtual AOPMC wishes to acknowledge the following sponsor of the Video Tournament:

Boehringer Ingelheim

MDS-AOS REGIONAL UPDATE

Sunday, June 6, 2021
15:00 JST - 16:00 JST

Join the leadership of the MDS Asian and Oceanian section to learn about the progress made across the MDS-AOS since the last AOPMC in 2019, upcoming initiatives and activities in the region, and how you can get involved.

CLOSING REMARKS

Sunday, June 6, 2021
20:00 JST - 20:30 JST

Please join us for some closing remarks as we officially wrap up a weekend of excellent education at the Virtual AOPMC.
AWARDS INFORMATION

YOSHIKUNI MIZUNO LECTURESHIP AWARD:

Ryosuke Takahashi, MD, PhD

Professor Ryosuke Takahashi, MD, PhD, works at the Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto, Japan. His major research interests are the molecular pathogenetic mechanisms underlying Parkinson’s disease and its related disorders and the development of disease-modifying therapies against these disorders.

He graduated from Kyoto University, Japan in 1983. He completed his neurology residency in Kyoto University Hospital and its affiliated hospitals. In 1989, he began performing basic research on neurodegenerative disorders and neuronal apoptosis as a staff scientist at Tokyo Metropolitan Institute for Neurosciences. He then worked as a postdoctoral fellow with Dr. John C. Reed at the Sanford-Burnham Institute, San Diego, CA, USA. Thereafter, he became the head of his own Laboratory at RIKEN Brain Science Institute, Japan, in 1999.

Since 2005, he has been Professor and Chair of the Department of Neurology at Kyoto University Graduate School of Medicine. He served as the chair of the task force for the 2011 version of the Japanese treatment guidelines for Parkinson’s disease, the President of the Japanese Society of Neurology from 2014 to 2018, the Vice President of the Japanese Society for Neuroscience from 2015 to 2019 and an International Executive Committee Member of the International Parkinson and Movement Disorder Society from 2015 to 2019. He is on the editorial board of Movement Disorders, Journal of Neural Transmission and Molecular Brain and has published more than 400 original articles in peer-reviewed international journals, including Nature, Cell, Neuron, Brain and Annals of Neurology. He is currently conducting a first-in-human clinical trial of iPS cell-derived dopamine neuron transplantation therapy for patients with Parkinson’s disease as a Co-PI with Professor Jun Takahashi.

PHILIP THOMPSON LECTURESHIP AWARD:

Beomseok Jeon, MD, PhD

Professor Beomseok Jeon is Medical Director of the Movement Disorder Center at Seoul National University Hospital. He is the past President of the Korean Movement Disorder Society, and served as the International Delegate of the Korean Neurological Association. He also served as the Director of Office of the Medical Policy and Communication, Seoul National University. Currently, he is the President of the Asia-Oceanian Association of Neurology (AOAN) and Past-Chair of Movement Disorder Society-Asia and Oceanian Section (MDS-AOS).

Prof. Jeon graduated from Seoul National University College of Medicine, and completed his neurology residency both at Seoul National University Hospital (1983-1987) and at the University of Minnesota (1987-1991), and then had a Movement Disorder fellowship under Prof. Stanley Fahn at Columbia University (1991-1993). He also studied basic neurosciences under Prof. Robert Burke as a H. Houston Merritt Fellow (1997-1998) at Columbia University. Prof. Jeon has extensively studied genetics in Korean patients with parkinsonism, and is currently interested in medical and surgical treatment of advanced parkinsonism. He has published over 400 peer reviewed articles, and wrote three books for patients and families with Parkinson's disease and ataxia.

JUNIOR AWARDS

Thank you to the 2021 Virtual AOPMC Abstract Review Subcommittee for reviewing all of the submissions and selecting the Junior Award Winners and the Top Abstracts which will be showcased in the Plenary Session 104: Abstract Oral Platform Presentations on Saturday, June 5, 2021 at 13:00 JST.

JUNIOR AWARDS

Junior Awards were awarded to the top two scoring abstracts that met the following criteria: individual is the first author of the abstract, Junior to mid-level in their career (individual’s age 45 years or less) AND the Principal Investigator (PI) of the study.

The Junior Award Winner will be showcased in MDS-AOS Lectures and Junior Awards Plenary following the Opening Ceremony.

JUNIOR AWARD RECIPIENTS:

Thomas Welton, Singapore
Warongporn Phuenpathom, Bangkok
## AOPMC Schedule-At-A-Glance

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<th>AEDT</th>
<th>ICT</th>
<th>JST</th>
<th>Friday, June 4</th>
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<td>Abu Dhabi</td>
<td>Sydney</td>
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<td>LIVE Development Session (90 min) 13:00 - 14:30 JST</td>
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<td>Pre-Congress Course: Practical Management of Movement Disorders (120 min) 13:15 - 15:15 JST</td>
<td>Course Q&amp;A (30 min)</td>
<td>Parallel Sessions (90 min)</td>
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<td>13:15 - 15:15 JST</td>
<td>LIVE Meet the Expert Discussions (60 min) 14:45 - 15:45 JST</td>
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<td>Plenary Session (120 min) 16:30 - 18:30 JST</td>
<td>Plenary Session (90 min) 15:00 - 16:30 JST</td>
<td>MDS-AOS Regional Update (60 min) 15:00 - 16:00 JST</td>
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<td>Opening Ceremony (30 min) 16:00 - 16:30 JST</td>
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<td>LIVE Video Tournament (120 min) 18:45 - 20:45 JST</td>
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<td>Break (15 min)</td>
<td>Live Video Tournament (120 min) 18:45 - 20:45 JST</td>
<td>Closing Remarks (30 min) 20:00 - 20:30 JST</td>
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Sponsored Symposia will be available on demand for the entirety of the meeting starting June 4.

To view sessions in your local time, please use the following link: [https://www.timeanddate.com/worldclock/converter.html](https://www.timeanddate.com/worldclock/converter.html)
DAILY SCHEDULE — FRIDAY, JUNE 4, 2021

401  Pre-Congress Course

Practical Management of Movement Disorders
11:00 JST – 15:45 JST

This session will feature a LIVE Question and Answer session.

Chairs: Piu Chan, Beijing
Jong-Min Kim, Seongnam

Part I
Movement Disorders: Basic Phenomenology
Pichet Termsarasab, Bangkok
Pathophysiology of Movement Disorders
Hugo Morales Briceño, Westmead
Genetics of Movement Disorders
Wei Luo, Hangzhou
Diagnosis and Principles of Management of Parkinson’s Disease
Frandy Susatia, Jakarta

Part II
Parkinsonism-Plus Syndromes
Hrishikesh Kumar, Kolkata
Hyperkinetic and Functional Disorders
Taku Hatano, Tokyo
Gait Disorders
Seong Beam Koh, Seoul

Video Case Discussion
Kishore Kumar, Sydney
Charulata Sankhla Savant, Prabhadevi
Cholpon Shambetova, Bishkek

ASPC Liaison: Jong-Min Kim, Seongnam

Recommended Audience: Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Describe movement disorders phenomena based on history taking and examination
2. Discuss the anatomy and physiology of basal ganglia and the pathophysiology of parkinsonism and hyperkinetic disorders
3. Review the practical aspects of genetics of movement disorders, including parkinsonism and hyperkinetic disorders
4. Describe diagnostic criteria and principles of management of Parkinson's disease

301  Development Session

How to Become a Successful Movement Disorders Neurologist: Success Stories from the MDS-AOS
13:00 JST – 14:30 JST

This session will feature a LIVE Question and Answer session.

In this interactive session, the MDS-AOS Experts will draw from their experiences to discuss and provide recommendations for becoming a successful Movement Disorders neurologist.

Chair: Raymond Rosales, Quezon City

Career Planning
Nobutaka Hattori, Tokyo
Mentorship
Hufang Shang, Chengdu
Teamwork
Tim Anderson, Christchurch
Work-Life Balance
Raymond Rosales, Quezon City
Contribution to Our Society
Louis Tan, Singapore

ASPC Liaison: Roongroj Bhidayasiri, Bangkok

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Formulate a proper differential diagnosis of parkinsonism and defining common forms of parkinsonism-plus syndromes
2. Discuss the diagnoses and management of common hyperkinetic (tremor, dystonia, chorea, myoclonus, etc) and functional disorders
3. Recognize common gait disorders in clinical practice and constructing appropriate evaluation plan
4. Discuss common movement disorders cases by the MDS-AOS expert panel

Meet the Expert Discussions

14:45 JST – 15:45 JST

In this interactive round-table session, Experts will answer participants’ question and provide them with practical knowledge on how to be successful in their careers.

Experts: Zakiyah AlDaajani, Dhahran
Shengdi Chen, Shanghai
Asha Kishore, Trivandrum
Barry Snow, Auckland
Ryosuke Takahashi, Kyoto

*This Expert’s session will be held in Japanese.

Please note that space is limited for each discussion and advance registration for the discussions is mandatory.

Opening Ceremony

16:00 JST – 16:30 JST

All participants are encouraged to attend the Opening Ceremony to officially kick off the Virtual AOPMC.
101  Plenary Session

MDS-AOS Lectures and Junior Awards
16:30 JST – 18:30 JST

Chair: Roongroj Bhidayasiri, Bangkok

Yoshikuni Mizuno Lecture
Ryosuke Takahashi, Kyoto

Philip Thompson Lecture
Beomseok Jeon, Seoul

Junior Awards
Thomas Welton, Singapore
Warongporn Phuenpathom, Bangkok

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

Yoshikuni Mizuno Lecture
At the conclusion of this lecture, participants should be better able to:
1. To explain the reason why basic science training is essential to explore the mechanisms underlying Parkinson’s disease (PD).
2. To explain what is prodromal PD.
3. To describe how animal models of prodromal PD could be instrumental in developing disease modifying therapies for PD.

Philip Thompson Lecture
At the conclusion of this lecture, participants should be better able to:
1. Learn the neurophysiology of eye opening and eye closure and then blepharospasm
2. Discuss neurophysiology of apraxia of lid opening and concept of negative dystonia
3. Extend the concept of negative dystonia to freezing of gait

102  Plenary Session

Phenotype Genotype in the MDS-AOS Region
19:00 JST – 20:30 JST

This session will feature a LIVE Question and Answer session.

Chairs: Nobutaka Hattori, Tokyo
Chon-Haw Tsai, Taichung

Eng-King Tan, Singapore
Hyperkinetic Disorders
Victor Fung, Sydney

Ataxia/Hereditary Spastic Paraparesis
Norlinah Mohamed Ibrahim, Bandar Tun Razak

ASPC Liaison: Victor Fung, Sydney

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Discuss recent discoveries in phenotype-genotype correlation in movement disorders with specific relevance to the MDS-AOS region
2. Distinguish phenotype-genotype correlations in hyperkinetic disorders with specific relevance to the MDS-AOS region
3. Distinguish phenotype-genotype correlations in ataxia and HSPs with specific relevance to the MDS-AOS region

To view sessions in your local time, please use the following link: https://www.timeanddate.com/worldclock/converter.html
DAILY SCHEDULE — SATURDAY, JUNE 5, 2021

103 Plenary Session

Current and Future Therapies in Parkinson’s Disease: An “MDS-AOS Perspective”
11:00 JST – 12:30 JST

This session will feature a LIVE Question and Answer session.

Chairs: Shengdi Chen, Shanghai
Barry Snow, Auckland
Early Pharmacological Management
Shen-Yang Lim, Petaling Jaya
Medical Management Strategies for Advancing Disease Phases
Beomseok Jeon, Seoul
Disease-Modifying Treatment: Current and Future
Simon Lewis, Sydney

ASPC Liaison: Shen-Yang Lim, Petaling Jaya

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Discuss current management of early-stage Parkinson’s disease
2. Describe current medical management strategies for advancing Parkinson’s disease (motor complications and other late-stage features)
3. Review the history and looking at the future of disease-modifying treatment for Parkinson’s disease

104 Plenary Session

Abstract Oral Platform Presentations
13:00 JST – 14:30 JST

This session will highlight the relevance, novelty and quality of both top clinical and top basic science research presented by one of the authors.

Chairs: Thomas Kimber, Adelaide
Louis Tan, Singapore

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

201 Parallel Session

Parkinson’s Disease Biomarkers and Pathology
17:00 JST – 18:30 JST

Chairs: Hideki Mochizuki, Osaka
Jing Zhang, Hangzhou

Fluid Biomarkers in Parkinson’s Disease
Chin-Hsien Lin, Taipei
Insights from Pathological Studies
Satoshi Orimo, Tokyo
The Role of Imaging in Prodromal and Early Parkinson’s Disease
Jong-Min Kim, Seongnam

ASPC Liaison: Hideki Mochizuki, Osaka

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Review the methods and findings of fluid biomarker studies in Parkinson’s disease
2. Discuss the key insights from pathological studies in Parkinson’s disease
3. Appraise the role of imaging in prodromal and early-stage Parkinson’s disease

202 Parallel Session

Sleep-Related Disorders in Parkinson’s Disease and Atypical Parkinsonian Disorders
17:00 JST – 18:30 JST

Chairs: Roongroj Bhidayasiri, Bangkok
Yoshio Tsuboi, Fukuoka

Neurobiology of Sleep: Concepts to Clinical Implications
Wing Yun Kwok, Hong Kong
Prodromal-to-Advanced Stage Manifestations
Claudia Trenkwalder, Kassel
From the Laboratory to Home-Based Assessments
Jirada Sringean, Pathumwan

ASPC Liaisons: Roongroj Bhidayasiri, Bangkok
Yoshio Tsuboi, Fukuoka

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Review the neurobiology of sleep and circadian rhythm, and correlating its pathologies with clinical manifestations
2. Recognize and manage sleep-related conditions in parkinsonian disorders
3. Describe investigations for parasomnias and other sleep-related movement disorders

302 Development Session LIVE!

Skills Workshop for Young Members
15:00 JST – 16:30 JST

This session will feature a LIVE Question and Answer session.

In this interactive session, senior members will share tips and strategies and active young members will share challenges on the publishing of manuscripts and delivering effective scientific presentations.

Chair: Ai Huey Tan, Kuala Lumpur
How to Get Your Manuscripts Published?
Jee-Young Lee, Seoul
Eng-King Tan, Singapore
How to Deliver Your Scientific Presentations Effectively?
Kai-Hsiang Stanley Chen, Hsinchu County
Carolyn Sue, Sydney

ASPC Liaison: Roongroj Bhidayasiri, Bangkok

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Identify strategies on how to get manuscripts published in peer-reviewed journals
2. Discuss how to prepare and deliver impactful presentations

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**DAILY SCHEDULE — SATURDAY, JUNE 5, 2021**

### Parallel Session

#### 203 Movement Disorders with Reversible Causes

**17:00 JST – 18:30 JST**

**Chairs:**
Zakiyah Aldaajani, Dhahran
Roland Dominic Jamora, Manila

**Structural Lesions and Movement Disorders**
Neil Mahant, Westmead

**Autoimmune-Mediated Movement Disorders**
Thashi Chang, Colombo

**Movement Disorders in Systemic Illnesses**
Thien Thien Lim, Georgetown

**ASPC Liaison:** Shen-Yang Lim, Petaling Jaya

**Recommended Audience:** Clinical/General Neurology, Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:

1. Review the spectrum of movement disorders associated with structural lesions of the nervous system (including normal pressure hydrocephalus)
2. Recognize and manage movement disorders with an autoimmune basis
3. Describe a range of movement disorders associated with systemic illnesses

### Video Tournament

**LIVE**

18:45 JST – 20:45 JST

Please join Masters of Ceremony, Victor Fung and Han-Lin Chiang, during the LIVE Video Tournament where participants will witness clinical experts analyze and discuss a case by phenomenology, syndromic classification and differential diagnosis. The audience will be able to submit comments via a live chat. This event will challenge participants to improve diagnostic skills with unique and interesting cases. This event is open to all registered participants. The 2021 Virtual AOPMC wishes to acknowledge the following sponsor of the Video Tournament:

**Masters of Ceremony:**
Han-Lin Chiang, New Taipei City
Victor Fung, Sydney

**Experts:**
Asha Kishore, Trivandrum
Beomseok Jeon, Seoul
Ai Huey Tan, Kuala Lumpur
Eng-King Tan, Singapore
Yih-Ru Wu, Taipei

**Recommended Audience:** Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

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DAILY SCHEDULE — SUNDAY, JUNE 6, 2021

105 Plenary Session

Adapting Technologies for Parkinson’s Disease (Not the Other Way Around)
11:00 JST – 12:30 JST

Chairs: Yasuyuki Okuma, Izunokuni
Huifang Shang, Chengdu
Roongroj Bhidayasiri, Bangkok

Technologies in Parkinson’s Disease: Are They for Everyone?
Technological Tools to Help Patients Live Better with Parkinson’s Disease: Perspectives on the COVID-19 Pandemic
The Future Path of Technologies in Parkinson’s Disease: Towards Patient-Centered Digital Outcome Measures

Walter Maetzler, Kiel

ASPC Liaisons: Roongroj Bhidayasiri, Bangkok
Huifang Shang, Chengdu

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Discuss the emerging roles of digital technology and their impact on Parkinson’s disease management
2. Draw from recent experiences how digital health technologies can be implemented in the management of Parkinson’s disease
3. Describe future directions for technological applications in Parkinson’s disease

205 Parallel Session

Neurophysiological Approaches to Movement Disorders
13:00 JST – 14:30 JST

Chair: Ming-Kai Pan, Taipei
Yoshikazu Ugawa, Fukushima

Tremor
Myoclonus
Psychogenic Movement Disorders
Pattamon Panyakaew, Bangkok

ASPC Liaison: Yoshikazu Ugawa, Fukushima

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Apply neurophysiological techniques to differentiate different types of tremor
2. Classify jerky movements, including myoclonus, based on neurophysiological findings
3. Utilize neurophysiological techniques to differentiate functional movement disorders from organic ones

206 Parallel Session

The Ophthalmological Examination: From Cornea to Cortex
13:00 JST – 14:30 JST

Chairs: Tim Anderson, Christchurch
Baorong Zhang, Hangzhou

Visual System Examination for Movement Disorders Neurologists
Helen Danesh-Meyer, Auckland
Eye Movement Examination for Movement Disorders Neurologist
Ji-Soo Kim, Seongnam

Bringing It All Together – Neuroophthalmological Diagnosis in Movement Disorders
Vivek Lal, Chandigarh

ASPC Liaison: Tim Anderson, Christchurch

Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Perform visual system examinations and learning how to interpret findings relevant to movement disorders
2. Perform eye movement examination and learn how to interpret findings relevant to movement disorders
3. Formulate differential diagnoses of neuroophthalmological abnormalities in movement disorders

MDS-AOS Regional Update

15:00 JST – 16:00 JST

Join the leadership of the MDS Asian and Oceanian section to learn about the progress made across the MDS-AOS since the last AOPMC in 2019, upcoming initiatives and activities in the region, and how you can get involved.

www.aopmc.org

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## DAILY SCHEDULE — SUNDAY, JUNE 6, 2021

### 207 Parallel Session

**Functional Surgery**  
16:30 JST – 18:00 JST  
Chairs: Tae-Beom Ahn, Seoul  
Asha Kishore, Trivandrum  
Who Needs Functional Neurosurgery?  
Rupam Borgohain, Hyderabad  
Which Functional Neurosurgery to Choose?  
Jawad Bajwa, Riyadh  
What Physicians Need to Know about DBS-Implanted Patients  
Genko Oyama, Tokyo  
ASPC Liaison: Beomseok Jeon, Seoul  
Recommended Audience: Clinical/General Neurology, Fellows/Residents/Students  
At the conclusion of this session, participants should be better able to:  
1. Identify suitable candidates for functional neurosurgical intervention  
2. Appraise the indications, and pros and cons, of different neurosurgical interventions  
3. Recognize and manage important medical and surgical issues in DBS-implanted patients

### 208 Parallel Session

**Difficult-to-Treat Symptoms in Parkinson's Disease and Atypical Parkinsonian Disorders**  
16:30 JST – 18:00 JST  
Chairs: Tai Ngoc Tran, Ho Chi Minh City  
Shey-Lin Wu, Changhua  
Pain and Autonomic Dysfunction  
Hirohisa Watanabe, Toyoda  
Neuropsychiatric Features  
Arlene Ng, Quezon City  
End-of-Life Care  
Victor McConvey, Surrey Hills  
ASPC Liaison: Yih-Ru Wu, Taipei  
Recommended Audience: Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students  
At the conclusion of this session, participants should be better able to:  
1. Manage pain and autonomic symptoms for patients with Parkinson's disease and atypical parkinsonian disorders  
2. Select appropriate therapeutic options for patients with neuropsychiatric symptoms  
3. Recommend the management strategies for advanced-stage patients

### 209 Parallel Session

**Multidisciplinary Approaches to Rehabilitation in Parkinson's Disease**  
16:30 JST – 18:00 JST  
Chairs: Sue Lord, Auckland  
Margaret Mak, Hong Kong  
Assessment and Management of Gait and Balance Impairments  
Mark Latt, Camperdown  
Evaluation of Speech and Swallowing  
Firas Alfwaress, Irbid  
Home-Based Allied Health Therapies in Developing Countries  
Hanan Khalil, Irbid  
ASPC Liaison: Zakiyah Aldaajani, Dhahran  
Recommended Audience: Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students  
At the conclusion of this session, participants should be better able to:  
1. Assess and manage common gait and balance problems in patients with Parkinson's disease  
2. Describe current and emerging technologies for the evaluation of speech/swallowing in Parkinson's disease  
3. Discuss the implementation of home-based therapies in developing countries

### 210 Parallel Session

**Proteinopathies and Movement Disorders**  
18:30 JST – 20:00 JST  
Chairs: Vincent Mok, Hong Kong  
Ruey-Meei Wu, Taipei  
Synucleinopathies  
Glenda Halliday, Sydney  
Tauopathies  
Eun Joo Kim, Busan  
Amyloidopathies  
Takeshi Iwatsubo, Tokyo  
ASPC Liaison: Ryosuke Takahashi, Kyoto  
Recommended Audience: Researcher/Basic Science, Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students  
At the conclusion of this session, participants should be better able to:  
4. Describe the clinicopathological spectrum and pathogenetic mechanisms underlying synucleinopathies  
5. Describe the clinicopathological spectrum and pathogenetic mechanisms underlying tauopathies  
6. Review the clinicopathological spectrum and pathogenetic mechanisms underlying amyloidopathies, including amyloid cascades
DAILY SCHEDULE — SUNDAY, JUNE 6, 2021

211  Parallel Session

Botulinum Toxins Therapy in Movement Disorders
18:30 JST – 20:00 JST

Chairs:  Ryuji Kaji, Tokushima City
Erle Chuen-Hian Lim, Singapore

Botulinum Toxin Complimenting Rehabilitation in Spasticity
Yoshihisa Masakado, Isehara, Kanagawa

Tricks for Difficult Dystonias
Jin Whan Cho, Seoul

Treating Tremors and Related Disorders
Shivam Om Mittal, Abu Dhabi

ASPC Liaison:  Raymond Rosales, Quezon City

Recommended Audience: Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
1. Develop a framework for the application of botulinum toxin therapy in upper and lower limb spasticity
2. Apply useful tips for the management of challenging dystonia cases
3. Apply botulinum toxin for tremors and related disorders

212  Parallel Session

Movement Disorders Associated with CNS Infections
18:30 JST – 20:00 JST

Chairs:  Annu Aggarwal, Mumbai
Quazi Deen Mohammed, Dhaka

Viral Infections and Prion Diseases Presenting with Movement Disorders
Shinsuke Fujioka, Fukuoka

Movement Disorders Related to Bacterial, Fungal and Parasitic Infections
Onanong Phokaewvarangkul, Bangkok

Impact of the COVID-19 Pandemic in the MDS-AOS: Looking Back to Inspire Forward Strategies
Pramod Pal, Bangalore

ASPC Liaison:  Hrishikesh Kumar, Kolkata

Recommended Audience: Clinical/General Neurology, Health Professionals (non-physician), Fellows/Residents/Students

At the conclusion of this session, participants should be better able to:
4. Recognize movement disorders associated with viral infection and prion diseases
5. Recognize movement disorders associated with bacterial, fungal, and parasitic infections
6. Discuss the impact of COVID-19 on the MDS-AOS movement disorders communities and outlining future strategies

Closing Remarks
20:00 JST – 20:30 JST

Please join us for some closing remarks as we officially wrap up a weekend of excellent education at the 2021 Virtual AOPMC.

SPONSORED SYMPOSIA

These company-based informational sessions will provide participants with non-CME educational opportunities to learn the latest in therapeutics. Sponsored Symposia will be available on demand for the entirety of the meeting starting Friday, June 4, 2021.

Otsuka Pharmaceutical Co., Ltd
Rehabilitation for Parkinson’s Disease Patients: Current Evidence and Application in the Clinical Setting

Ono Pharmaceutical Co., Ltd
Opicapone Clinical Trial in Japan: Challenges to Tableting for Patients

Teva Pharmaceuticals
Recognition and Updated Treatments of Tardive Dyskinesia
ABSTRACTS

The following abstracts will be featured in Plenary Session 104: Abstract Oral Platform Presentations on Saturday, June 5, 2021 from 13:00-14:30 JST.

Altered cerebellar resting-state functional connectivity in early-stage Parkinson's disease patients with cognitive impairment
Dan, Xiaoyuan; Hu, Yang; Sun, Jun-Yan; Gao, Lin-Lin; Zhou, Yong-Tao; Ma, Jing-Hong; Dayon, Julien; Wu, Tao; Chan, Pin

Parkinson's disease polygenic risk scores are associated with subcortical brain morphometry in young, healthy adults
García Marin, Luis M; Mitchell, BL; Campos, Al; Mulcahy, A; Strike, LT; de Zubizaray, GI; McMahon, KL; Thompson, PM; Medland, SE; Martin, NG; Wright, MJ; Renteria, ME

Temporal evolution of inflammation and neurodegeneration with alpha-synuclein propagation in Parkinson's disease mouse model
Lai, Thuy Thi; Kim, Yun Joong; Nguyen, Phuong Thi; Koh, Young Ho; Nguyen, Tinh Thi; Ma, Hyo-Il; Kim, Young Eun

Intergenerational repeat instability of TTTCA expansions in SAMD12 might be the major cause of the genetic anticipation in familial cortical myoclonic tremor with epilepsy
Cen, Z; Chen, XH; Wang, H; Yang, DH; Zhang, F; Chen, Y; Chen, S; Wang, LB; Liu, P; Xie, F; Fu, A; Hu, B; Wang, B; Ouyang, Z; Wu, S; Wang, S; Ji, J; Luo, W

Cerebrospinal fluid lipidomic alterations correlated with cognitive decline in Parkinson's disease
Mizutani, Yasuaki; Shima, Sayuri; Ueda, Akihiro; Ito, Mizuki; Watanabe, Hirohisa

Assessment of Botulinum Neurotoxin Injection for Dystonic Hand Tremor: A Randomized Clinical Trial
Rajan, Roopa; Srivastava, Achal K; Anandapadmanabhan, Reghu; Saini, Arti; Upadhyay, Ashish; Gupta, Anu; Vishnu, Venugopalan V; Pandit, Awdh K; Vibha, Deepti; Singh, Mamta B; Bhatia, Rohit; Goyal, Vinay; Dwivedi, Sada Nand; Srivastava, Padma; Prasad, Kameshwar

Metabolic patterns and neurodegeneration in isolated REM sleep behavior disorder
Shin, Jung Hwan; Lee, JY; Kim, YK; Yoon, EJ; Kim, HJ; Nam, HW; Jeon, B

Quantitative gait analysis using a pose-estimation algorithm with a single 2D-video of PD patients
Shin, Jung Hwan; Yu, R; Ong, JN; Lee, CY; Jeon, SH; Park, HP; Kim, HJ; Lee, JH; Jeon, B

Association between Plasma Neurofilament Light Concentration and White Matter Fractional Anisotropy in Early Parkinson's Disease
Welton, T; Tan, Yi Jayne; Saffari, Seyed Ehsan; Chia, Nicola; Ng, Samuel; Lu, Zhonghao; Yong, Alissa; Choi, Xinyi; Heng, Dede; Shih, Yao-Chia; Hartano, Septian; Lee, Weiling; Xu, Zheyu; Tay, Kay Yaw; Au, Wing Lok; Tan, Eng Xing; Chan, Ling Ling; Ng, Adeline; Tan, Louis

Long-term clinical outcome of deep brain stimulation in pantothenate kinase-associated neurodegeneration: a retrospective observational study
Woo, Kyung Ah; Kim, Han-Joon; Chung, Sun Ju; Youn, Jinyoung; Ahn, Jong Hyeon
ACKNOWLEDGMENTS

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