## October 22 *Room 101*

### PC01

**Introducation of Neurometabolic Diseases in Infants and Children**

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|---|---|
| 08:30-09:00 | Overview of Neurometabolic Diseases in Infants<br>*Ingrid Tein (The Hospital for Sick Children, Canada)* |
| 09:00-09:25 | Mitochondrial Diseases: Infantile Onset Epilepsy from Genetic Testing to Precision Management<br>*Ching-Shiang Chi (Tungs' Taichung MetroHarbor Hospital, Taiwan)* |
| 09:25-09:50 | Investigations in Pediatric Neurometabolic Diseases<br>*Yann-Jang Chen (Taipei Veterans General Hospital, Taiwan)* |
| 09:50-10:10 | Neurophysiological Monitoring on Neurometabolic Disorders<br>*Douglas R. Nordli (University of Chicago, USA)* |

### PC02

**Mitochondrial Encephalopathy**

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|---|---|
| 10:40-11:10 | Approach to Mitochondrial Disorders in Children<br>*Haluk Topaloglu (Hacettepe University School of Medicine, Turkey)* |
| 11:10-11:35 | Mitochondrial Encephalopathy: Clinical and Genetic Features<br>*Kei Murayama (Chiba Children's Hospital, Japan)* |
| 11:35-12:00 | Molecular Basis of Neurometabolic and Neurogenetic Diseases<br>*Henrike O. Heyne (University of Helsinki, Finland)* |

### PC03

**Amino Acid Metabolic Diseases**

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|---|---|
| 13:30-14:00 | Overview of Amino Acid Metabolic Diseases: Clinical Presentations and Genetic Roles<br>*Cheuk Wing Fung (Hong Kong Children's Hospital, Hong Kong)* |
| 14:00-14:30 | MSUD and Related Disorders: Different Presentations in Infants and Children<br>*Sylvia Estrada (Philippine General Hospital, Phillipines)* |
| 14:30-15:00 | Sulfite Oxidase Deficiency and Related Disorders: Neuroimaging Findings and Genetic Roles<br>*Syuan-Yu Hong (China Medical University, Taiwan)* |

## October 22 *Room 101*

### PC04

**Miscellaneous Etiologies and Treatment**

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|---|---|
| 15:40-16:05 | Artificial Intelligence Application in EEG Analysis: A New Strategy for the Neurophysiological Management of Neurometabolic Disorders<br>*Noboru Yoshida (Juntendo University Nerima Hospital, Japan)* |
| 16:05-16:35 | Peroxisomal Disorders in Infants and Children<br>*Hsi Chang (Taipei Medical University Hospital, Taiwan)* |
| 16:35-17:00 | Metbolic Imbalances in Fatty Acid Oxidation Disorders. Implications for Pathophysiology and Treatment<br>*Jerry Vockley (University of Pittsburgh, USA)* |
| 17:00-17:30 | Lysosomal Diseases in Infancy and Children: Diagnostic Approach<br>*Jonathan Mink (University of Rochester Medical Center, USA)* |

## October 23 *Room 101*

### BS01

**Update in Neurophysiology**

07:15-07:45 EEG Monitoring Approaches in Critically Ill Infants and Children
*Nicholas S. Abend (University of Pennsylvania, USA)*

07:45-08:15 Update Applications of Neurophysiological Monitoring in Neonates
*Ronit Pressler (Great Ormond Street Hospital, UK)*

### K01

**Keynote Speech I**

08:40-09:20 Recent Advance in Neurometabolic Diseases: The Genetic Role in Modern Era
*Ingrid Tein (The Hospital for Sick Children, Canada)*

### K02

**Keynote Speech II**

09:20-10:00 Recent Advance in the Treatment of Neurometabolic Diseases
*Phillip Pearl (Boston Children's Hospital, USA)*

### S01

**Neurometablic Diseases and Epilepsy (I)**

10:30-10:50 Ion-Channel Disorders V.S. Neurometabolic Disorders in Newborns
*Inn-Chi Lee (Chung Shan Medical University Hospital, Taiwan)*

10:50-11:10 Novel Treatment of Neurometabolic Disease Presenting with Epileptic Encephalopathy
*Kazuhiro Muramatsu (Jichi Medical University, Japan)*

11:10-11:30 Diet Therapy for Infants with Neurometabolic Disorders and Genetic Epilepsy
*Heung Dong Kim (Yonsei University College of Medicine, Korea)*

11:30-12:00 Precision Medicine in Infantile Seizures
*Henrike O. Heyne (University of Helsinki, Finland)*

## October 23 *Room 101*

### S02

**Investigations in Neurometabolic Disease**

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|---|---|
| 13:30-14:00 | Clinical Utility of Rapid Whole Genome Sequencing in Infants with Neurometabolic Diseases<br>*Pui-Yan Kwok (Academia Sinica, Taiwan)* |
| 14:00-14:30 | Pyridoxine-Dependent Epilepsy (PDE-ALDH7A1): Implications for Newborn Screening<br>*Laura Tseng (BC Children's Hospital, Netherlands)* |
| 14:30-15:00 | Neuroimaging Features in Infants with Neurometabolic Diseases<br>*Kshitij Mankad (Great Ormond Street Hospital / University College London Hospital, UK)* |

### S03

**Infantile Epilepsy in Mitochondrial Disorders**

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|---|---|
| 16:00-16:30 | Mitochondrial Transplantation in MELAS Disease<br>*Chin-San Liu (Changhua Christian Hospital, Taiwan)* |
| 16:30-16:50 | Neurophysiologic Monitoring in Infants with Mitochondrial Diseases<br>*Ronit Pressler (Great Ormond Street Hospital, UK)* |
| 16:50-17:10 | Infantile Onset Epilepsy in Mitochondrial Disorder: Clinical and Genetic Insights<br>*Jong Hee Chae (Seoul National University College of Medicine, Korea)* |
| 17:10-17:30 | Paradigm Changes in the Genetics of the Infantile Epilepsies – Understanding the Exome and Beyond<br>*Ingo Helbig (Children's Hospital of Philadelphia, USA)* |

## October 24 *Room 101*

### BS02

**Progressive Myoclonic Epilepsy in Infants and Children**

07:15-07:45 Overview of Progressive Myoclonic Epilepsy: Genetic Roles
*Nicola Specchio (Bambino Gesù Children's Hospital, Italy)*

07:45-08:15 Update Treatment of PME
*Jorge Vidaurre (Nationwide Children's Hospital, USA)*

### K03

**Keynote Speech III**

08:30-09:10 Metabolic Epilepsy in Infancy: The Role of Genes
*Pratibha Singhi (Medanta, India)*

### S04

**Neurometablic Diseases and Epilepsy (II)**

10:30-10:55 Clinical, Genetic Role, and Treatment Strategies toward SSADHD
*Phillip Pearl (Boston Children's Hospital, USA)*

10:55-11:20 Genetic Investigation in Lipid Metabolism with Infantile Epilepsy
*Ting-Rong Hsu (Taipei Veterans General Hospital, Taiwan)*

11:20-11:45 The Role of Autophagy in the Pathomechanism and Treatment of Leukodystrophy
*Dar-Shong Lin (Taipei Veterans General Hospital, Taiwan)*

11:45-12:10 Update Treatment for Leukodystrophy and Its Associated Epilepsy in Infants
*Wang-Tso Lee (National Taiwan University Hospital, Taiwan)*

## October 24 *Room 101*

### S05

**Neurometablic Diseases and Epilepsy (III)**

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|---|---|
| 13:30-13:55 | Congenital Disorders of Glycosylation and Infantile Epilepsy<br>*Hsiu-Fen Lee (Taichung Veterans General Hospital, Taiwan)* |
| 13:55-14:20 | Infantile Epilepsy and Carnitine Inborn Errors of Metabolism: The Role of Genes<br>*Shinichi Hirose (Fukuoka University, Japan)* |
| 14:20-14:40 | Organic Acid and Infantile Epilepsy: The Role of Genes<br>*Yi Wang (Fudan University Children Hospital, China)* |
| 14:40-15:00 | Diagnosis of Neurometabolic Disorders Involving Basal Ganglia based on Neuroimages<br>*Shekeeb Mohammad (The Children's Hospital at Westmead, Australia)* |

### S06

**Treatable Neurometabolic Diseases and Epilepsy**

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|---|---|
| 15:30-15:55 | Implication of Glucose Transporter 1 Deficiency in Neurologic Disease<br>*Shin Nabatame (Osaka University, Japan)* |
| 15:55-16:20 | Pyridoxine-Responsive and Dependent Epilepsy<br>*Huei-Shyong Wang (Linkou Chang Gung Memorial Hospital, Taiwan)* |
| 16:20-16:45 | Biotinidase Deficiency and Infantile Seizures<br>*I-Ching Chou (China Medical University Hospital, Taiwan)* |
| 16:45-17:10 | Novel Treatment of Mitochondrial Disorders<br>*Tsu-Kung Lin (Kaohsiung Chang-Gung Memorial Hospital, Taiwan)* |
| 17:10-17:35 | Creatine Transporter Deficiency and Epilepsy<br>*Ming-Tao Yang (Far Eastern Memorial Hospital, Taiwan)* |