

October 22

Room 101

PC1

Introduction of Neurometabolic Diseases in Infants and Children

Chair: Katsunori Konbayashi (Japan), Chao-Ching Huang (Taiwan)

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

PC2

Mitochondrial Encephalopathy

Chair: Jun Natsume (Japan), Kun-Long Hung (Taiwan)

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

L1

Luncheon Symposium - Phalanx Biotech

Chair: Dar-Shong Lin (Taiwan)

- 12:10-13:30 Dual Analysis Application of Whole Exome Sequencing and Microarray for the Diagnosis of Developmental Delay Children
Li-Ping Tsai (Taipei Tzu Chi Hospital, Taiwan)

PC3**Amino Acid Metabolic Diseases**

Chair: Cheuk Wing Fung (Hong Kong), Hsiu-Fen Lee (Taiwan)

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

PC4**Miscellaneous Etiologies and Treatment**

Chair: Jao-Shwann Liang (Taiwan), Pi-Chuan Fan (Taiwan)

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

L2**Luncheon Symposium - Sanofi**

Chair: Wang-Tso Lee (Taiwan)

- 12:10-13:30 Streamlining the Diagnosis Pathway from Genotype to Phenotype in Hereditary Myopathy: Example from Pompe Disease
Andrew Kornberg (The Royal Children's Hospital, Australia)

CS1**Cross-Strait Forum**

Chair: Yuwu Jiang (China), Nan-Chang Chiu (Taiwan)

- 15:30-15:50 Genetic Role in Guiding Epilepsy Treatment in Infants
Yi-Fang Tu (National Cheng Kung University Hospital, Taiwan)
- 15:50-16:10 嬰兒期早發癲癇病因及臨床-單中心回顧性研究
方方 (首都醫科大學附屬北京兒童醫院)
- 16:10-16:30 The Predictors and Associated Factors for Ketogenic Diet Effectiveness-From the View of Metabolome
Pi-Lien Hung (Kaohsiung Chang Gung Memorial Hospital, Taiwan)
- 16:30-16:50 生酮飲食治療線粒體病相關癲癇研究進展
孫丹 (華中科技大學同濟醫學院附屬武漢兒童醫院)
- 16:50-17:10 Epileptic Seizures in Patients with Glutaric Aciduria Type I
Wei-Sheng Lin (Taipei Veterans General Hospital, Taiwan)
- 17:10-17:30 WDR45 變異相關的嬰幼兒癲癇
周水珍 (復旦大學附屬兒科醫院)
- 17:30-17:50 The Behavioral Phenotype and Developmental Trajectory of Autism Spectrum Disorder in Children Born Very Preterm
Li-Wen Chen (National Cheng Kung University, Taiwan)
- 17:50-18:10 CLCN4 相關癲癇
彭鏡 (中南大學湘雅醫院)
- 18:10-18:30 With the Advance in the Field of Neuroinflammation, What Should We Know When We Approach a Neurologic Case in Pediatric Population?
Chih-Fen Hu (Tri-Service General Hospital, Taiwan)

October 23

Room 101

BS1

Update in Neurophysiology

Chair: Rei-Cheng Yang (Taiwan), Noboru Yoshida (Japan)

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 for Children, UK)

K1

Prof. Yu-Zen Shen's Memorial Lecture

Chair: Wang-Tso Lee (Taiwan)

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

K2

Taiwan Child Neurology Society 25th Anniversary Lecture

Chair: Hideo Yamanouchi (Japan)

09:20-10:00 Recent Advances in the Treatment of Neurometabolic Diseases
Phillip Pearl (Harvard Medical School, USA)

October 23

Room 101

S1

Neurometabolic Diseases and Epilepsy (I)

Chair: I-Ching Chou (Taiwan), Inn-Chi Lee (Taiwan)

- 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 Epileptic Encephalopathy in Neurometabolic Diseases
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)

L3

Luncheon Symposium - Biogen

Chair: Wang-Tso Lee (Taiwan)

- 12:10-13:30 Advances in Treatment of SMA and Taiwan SPINRAZA Treatment Experience Sharing
Yuh-Jyh Jong (Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan)

S2**Investigations in Neurometabolic Disease**

Chair: Yuh-Jyh Jong (Taiwan), Yung-Ting Kuo (Taiwan)

- 13:30-14:00 Full Genome Analysis for Rare Genetic Diseases: as Applied to Infants with Neurometabolic Diseases
Pui-Yan Kwok (Academia Sinica, Taiwan)
- 14:00-14:30 Pyridoxine-Dependent Epilepsy (PDE-ALDH7A1): Implications for Newborn Screening
Laura Tseng (Amsterdam University Medical Center, The Netherlands)
- 14:30-15:00 Neuroimaging Features in Infants with Neurometabolic Diseases
Kshitij Mankad (Great Ormond Street Hospital for Children & University College London, UK)

O1**Oral Presentation I**

Chair: Marilyn H. Ortiz (Phillipines), Shyi-Jou Chen (Taiwan)

- 15:30-15:40 A Case Series of Varied Manifestations of Glut1 Transporter Defect
Harshuti Shah (Rajvee Hospital, India)
- 15:40-15:50 GNAO1-related Severe Involuntary Movements Treated with Deep Brain Stimulation
Mizuki Takagi (Aichi Medical University, Japan)
- 15:50-16:00 COQ4 Mutations-related Infantile-onset Mitochondrial Disorder Associated with Primary Coenzyme Q10 Deficiency
Chia-Jui Hsu (National Taiwan University Hospital Hsinchu Branch, Taiwan)

S3**Infantile Epilepsy in Mitochondrial Disorders**

Chair: Norimichi Higurashi (Japan), Che-Sheng Ho (Taiwan)

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

O2**Oral Presentation II**

Chair: Teik Beng Khoo (Malaysia), Yung-Ting Kuo (Taiwan)

- 17:30-17:40 The First Case Series of Bilateral Frontoparietal Polymicrogyria in Taiwan
Cheng-Yen Kuo (Chang-Geng Medical Foundation Linkou Chang-Geng Memorial Hospital, Taiwan)
- 17:40-17:50 Clinical and Electrophysiological Features of Pyridoxamine 5' Phosphate Oxidase (PNPO) Deficiency Beyond the Neonatal Period
Lakshmi Kalband (Children's Hospital at Westmead, Australia)
- 17:50-18:00 Alternating Hemiplegia of Childhood: A Malaysian Tertiary Centre Experience
Lip Yuen Teng (Hospital Tunku Azizah Kuala Lumpur, Malaysia)
- 18:00-18:10 Focal Gyrotory Seizure Associated with Ectopic Gray Matter in the Frontal Lobe
Satomi Kakuta-Ohtaki (Saitama Medical University, Japan)
- 18:10-18:20 Therapeutic Effects and Mechanisms of Transcranial Photobiomodulation (tPBM) on Pediatric Epilepsy
Hsi Chang (Taipei Medical University Hospital, Taiwan)

October 23

Room 102

L4

Luncheon Symposium - UCB

Chair: Kuang-Lin Lin (Taiwan)

12:10-13:30 A New Insight of AED Selection in Pediatric Epilepsy
Ting-Rong Hsu (Taipei Veterans General Hospital, Taiwan)

October 24

Room 101

BS2

Progressive Myoclonic Epilepsy in Infants and Children

Chair: Kuang-Lin Lin (Taiwan), Kazuhiro Muramatsu (Japan)

- 07:15-07:45 Overview of Progressive Myoclonic Epilepsy: Genetic Roles
Nicola Specchio (Bambino Gesù Children's Hospital, Italy)
- 07:45-08:15 Progressive Myoclonic Epilepsies. Electro-Clinical Features
Jorge Vidaurre (Nationwide Children's Hospital, USA)

K3

Prof. Yukio Fukuyama's Memorial Lecture

Chair: Ching-Shiang Chi (Taiwan)

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

O3

Oral Presentation III

Chair: Ming-Yuh Chang (Taiwan), Sung-Tse Li (Taiwan)

- 09:10-09:20 Brain Age Prediction from Electroencephalographic Maturation Assessed by Deep Learning Algorithm
Shi-Bing Wong (Taipei Tzu Chi Hospital, Taiwan)
- 09:20-09:30 Electroencephalographic Patterns and Clinical-radiological Correlation in Children with Lissencephaly: A Case Series Report
Min-Lan Tsai (Taipei Medical University Hospital, Taiwan)
- 09:30-09:40 Infantile Epileptic Encephalopathy Caused by the SCN8A Variant in a Child with Citrine Deficiency
Marina Hashiguchi (Jichi Medical University, Japan)

S4**Neurometabolic Diseases and Epilepsy (II)**

Chair: Tung-Ming Chang (Taiwan), Julie Chi Chow (Taiwan)

- 10:30-10:55 SSADH Deficiency: Clinical, Genetic Role, and Treatment Strategies
Phillip Pearl (Harvard Medical School, 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 (Mackay Memorial Hospital, Taiwan)
- 11:45-12:10 Update Treatment for Leukodystrophy and Its Associated Epilepsy in Infants
Wang-Tso Lee (National Taiwan University Children's Hospital, Taiwan)

L5**Luncheon Symposium - Eisai**

Chair: Wang-Tso Lee (Taiwan)

- 12:10-13:30 Role of Perampanel in Early Add-on Treatment for Pediatric Patients with Epilepsy
Hsiu-Fen Lee (Taichung Veterans General Hospital, Taiwan)
- Management of LGS and Rufinamide Experience Sharing
Chu-Chin Chen (Kaohsiung Veterans General Hospital, Taiwan)

S5**Neurometabolic Diseases and Epilepsy (III)**

Chair: Kai-Ping Chang (Taiwan), Wen-Chen Liang (Taiwan)

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

S6**Treatable Neurometabolic Diseases and Epilepsy**

Chair: Ting-Rong Hsu (Taiwan), Chih-Fen Hu (Taiwan)

- 15:30-15:55 Glucose Transporter 1 Deficiency : Past Experience, Current Status, and Future Challenges
Shin Nabatame (Osaka University, Japan)
- 15:55-16:20 Pyridoxine-Responsive and Dependent Epilepsy
Huei-Shyong Wang (Chang Gung Medical Center, Taiwan)
- 16:20-16:45 Biotinidase Deficiency and Infantile Seizures
I-Ching Chou (China Medical University Hospital, Taiwan)
- 16:45-17:10 Novel Treatment of Mitochondrial Disorders
Tsu-Kung Lin (Kaohsiung Chang Gung Memorial Hospital, Taiwan)
- 17:10-17:35 Creatine Transporter Deficiency and Epilepsy
Ming-Tao Yang (Far Eastern Memorial Hospital, Taiwan)

October 24

Room 102

L6

Luncheon Symposium - GSK

Chair: Huei-Shyong Wang (Taiwan)

12:10-13:30 Seizure Control in Times of Emergency: Start with a High-Risk Teratogenicity Medication for Immediate Control And Switch to a Low-Risk Teratogenicity Option Later?

Yen-Ju Chu (National Taiwan University Hospital, Taiwan)