

## Day 2 : Nov. 9 (Fri) Venue 1 (2F Hall)

### 8 : 50~9 : 20 Presidential Lecture

Chairperson: **Hiroyuki Ida**

(Department of Pediatrics, The Jikei University School of  
Medicine)

#### PL Splicing abnormalities have attracted me

○ Toshiyuki Fukao

Department of Pediatrics, Graduate School of Medicine, Gifu University

### 9 : 20~10 : 05 Educational Lecture 1

Chairperson: **Nobuyuki Shimozawa**

(Division of Genomics Research, Life Science Research Center, Gifu  
University)

#### EL1 Peroxisomal disorders: new defects, new phenotypes and the continued importance of biochemical studies

○ Ronald Wanders

Departments Clinical Chemistry, Academic Medical Center, University of Amsterdam; Pediatrics,  
Laboratory Genetic Metabolic Diseases, Emma Children's Hospital, Amsterdam, The Netherlands

### 10 : 05~10 : 50 Special Lecture 2

Chairperson: **Tetsuya Ito**

(Department of Pediatrics, Fujita Health University)

#### SL2 A review on congenital disorders of glycosylation and its therapies

○ Eva Morava

Department of Clinical Genomics, Mayo Clinic, USA

### 11 : 00~11 : 50 Sponsored Seminar 3

**Sponsored by BioMarin Pharmaceutical Japan**

Chairperson: **Toshiyuki Fukao**

(Department of Pediatrics, Graduate School of Medicine, Gifu  
University)

#### SS3 Recognizing MPS in daily practice. Detecting early signs and symptoms of MPSIVA

○ Maurizio Scarpa

Centre for Rare Diseases, Helios Dr. Horst Schmidt Klinik, Wiesbaden, Germany

**12 : 00~13 : 00 Luncheon Seminer 3 : Tips of diagnosis and importance of early diagnosis – Fabry disease – Sponsored by Sanofi K.K.**

**Chairperson: Toya Ohashi**

(Research Center for Medical Science, The Jikei University School of Medicine)

**LS3-1 A family case of Fabry disease which was diagnosed by anhidrosis**

○ Atsushi Fukunaga

Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine

**LS3-2 Updated review on cornea verticillata in Fabry disease**

○ Shizuka Koh

Department of Innovative Visual Science, Osaka University Graduate School of Medicine

**13 : 10~14 : 10 Special Lecture 3**

**Chairperson: Toshiyuki Fukao**

(Department of Pediatrics, Graduate School of Medicine, Gifu University)

**SL3 Glycan structures and biological functions, focussing on heparin, sialoglycans and gangliosides**

○ Makoto Kiso

Professor Emeritus, Gifu University

**14 : 10~14 : 55 Educational Lecture 2**

**Chairperson: Tsutomu Takahashi**

(Department of Pediatrics, Akita University Graduate School of Medicine)

**EL2 The many faces of tyrosinemia: challenges for the next generation**

○ Grant A. Mitchell<sup>1</sup>, Hao Yang<sup>1</sup>, Pei Weng<sup>1,2</sup>, The Quebec NTBC Study Group<sup>3</sup>

<sup>1</sup>Department of Pediatrics, Medical Genetics Division, CHU Ste-Justine, Canada

<sup>2</sup>Central South University, Changsha, Hunan, China

<sup>3</sup>All treatment centers in Quebec, Canada

**15 : 00~16 : 10 Sponsored Symposium : Diagnosis and Treatment for Hereditary tyrosinemia type1 Disease—Current status in Japanese cases of treatment with Nitisinone and future—**

**Sponsored by Astellas Pharma Inc.**

**Chairpersons: Fumio Endo**

(Kumamoto-Ezuko Medical Center for the Severely Disabled/  
Emeritus Professor, Kumamoto University School of Medicine)

**Kimitoshi Nakamura**

(Department of Pediatrics, Kumamoto University Graduate School of Medical Sciences)

**Commentator: Grant A. Mitchell**

(Department of Pediatrics, CHU Sainte-Justine, University of Montreal, Canada)

### **SSY-1 A case of unclassifiable tyrosine metabolism disorder**

- Yuri Etani<sup>1</sup>, Misuzu Yoshida<sup>2</sup>, Hideaki Okajima<sup>3</sup>
  - <sup>1</sup>Department of Pediatric Gastroenterology, Nutrition and Endocrinology, Osaka Women's and Children's Hospital
  - <sup>2</sup>Department of Neonatal Medicine, Osaka Women's and Children's Hospital
  - <sup>3</sup>Division of Hepato-Biliary-Pancreatic Surgery and Transplantation/Pediatric Surgery, Graduate School of Medicine Kyoto University

### **SSY-2 Discontinuation of NTBC plus unrestricted diet post-liver transplantation in hereditary tyrosinemia type 1**

- Kosuke Kurihara<sup>1,2</sup>, Junya Hirayama<sup>1</sup>, Keishirou Amano<sup>1</sup>, Hidemi Toyoda<sup>1</sup>, Mikihiro Inoue<sup>3</sup>  
Keiichi Uchida<sup>3</sup>, Hiroyuki Sakurai<sup>4</sup>, Akinobu Hayashi<sup>5</sup>, Masahiro Hirayama<sup>1</sup>
  - <sup>1</sup>Department of Pediatrics, Mie University Hospital
  - <sup>2</sup>Department of Pediatrics, Yokkaichi Hazu Medical Center
  - <sup>3</sup>Department of Pediatric Surgery, Mie University Hospital
  - <sup>4</sup>Department of Hepatobiliary Pancreatic and Transplant Surgery, Mie University Hospital
  - <sup>5</sup>Department of Pathology, Mie University Hospital

### **SSY-3 A Japanese Case of Tyrosinaemia type I and Treatment with NTBC (2-(2-nitro-4-trifluoromethylbenzoyl)-1, 3-cyclohexanedione) After Transplantation**

- Shirou Matsumoto<sup>1</sup>, Takanobu Yoshida<sup>1</sup>, Tatsuya Kawasaki<sup>1</sup>, Rieko Sakamoto<sup>1</sup>, Jun Kido<sup>1</sup>  
Hidekazu Yamamoto<sup>2</sup>, Hirotake Sawada<sup>3</sup>, Maiko Utoyama<sup>3</sup>, Hiroshi Moritake<sup>3</sup>, Yukihiro Inomata<sup>4</sup>  
Fumio Endo<sup>5</sup>, Kimitoshi Nakamura<sup>1</sup>
  - <sup>1</sup>Department of Pediatrics, Faculty of Life Sciences, Kumamoto University
  - <sup>2</sup>Department of Pediatric Surgery and Transplantation, Faculty of Life Sciences, Kumamoto University
  - <sup>3</sup>Department of Pediatrics, Faculty of Medicine, University of Miyazaki
  - <sup>4</sup>Kumamoto Rosai Hospital
  - <sup>5</sup>Kumamoto-Ezuko Medical Center for Development and Disability

## **16 : 10~16 : 58 English Session 4 : Organic Acidemias**

**Chairpersons: Kimihiko Oishi**

(Departments of Pediatrics, Genetics & Genomic Sciences, Icahn School of Medicine at Mount Sinai)

**Nobuyuki Ishige**

(Division of Newborn Screening, Tokyo Health Service Association)

### **ES-15 Heterogeneous phenotypes, genotypes, treatment and prevention of 1003 patients with methylmalonic acidemia in the mainland of China**

- Yi Liu<sup>1</sup>, Yupeng Liu<sup>1</sup>, Yao Zhang<sup>1</sup>, Jinqing Song<sup>1</sup>, Yanyan Ma<sup>2</sup>, Xiyuan Li<sup>3</sup>, Yuan Ding<sup>4</sup>  
Dongxiao Li<sup>5</sup>, Ying Jin<sup>1</sup>, Yanling Yang<sup>1</sup>
  - <sup>1</sup>Peking University First Hospital
  - <sup>2</sup>Department of Pediatrics, Affiliated Hospital of Qinghai University
  - <sup>3</sup>Precision Medicine Center, General Hospital of Tianjin Medical University
  - <sup>4</sup>Center for Endocrine and genetic Metabolism, Beijing Children's Hospital, Capital Medical University
  - <sup>5</sup>Laboratory for genetic metabolic diseases, Henan Children's Hospital

**ES-16 Detection of methylmalonic acid, methylcitric acid and total homocysteine in dried blood spots by tandem mass spectrometry: clinical verification in large patient samples**

- Yi Liu<sup>1</sup>, Lulu Kang<sup>1</sup>, Junjuan Wang<sup>2</sup>, Ying Jin<sup>1</sup>, Mengqiu Li<sup>1</sup>, Jinqing Song<sup>1</sup>, Haixia Li<sup>2</sup>  
Yanling Yang<sup>1</sup>  
<sup>1</sup>Peking University First Hospital  
<sup>2</sup>Zhejiang Biosan Biochemical Technologies Co., Ltd

**ES-17 Maternal beta-ketothiolase deficiency detected by expanded newborn screening**

- Somporn Liammongkolkul, Kasinat Sanomcham, Wasitporn Faksrimuang, Suwit Buddha Pornswan Wasant, Nithiwat Vatanavicharn  
Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

**ES-18 Inverse association between blood ammonia and glutamine level in MMA and PA**

- Yoko Nakajima<sup>1</sup>, Katsuyuki Yokoi<sup>1</sup>, Yasuhiro Maeda<sup>2</sup>, Tetsushi Yoshikawa<sup>1</sup>, Tetsuya Ito<sup>1</sup>  
<sup>1</sup>Department of Pediatrics, Fujita Health University School of Medicine  
<sup>2</sup>Graduate School of Pharmaceutical Sciences, Nagoya City University

**17 : 00~17 : 30 KSIMD Recommending Lecture**

**Chairperson: Akira Ohtake**

(Department of Pediatrics, Center for Intractable Diseases, Saitama Medical University)

**KSIMD Molecular study of neurological Wilson disease**

- Boem Hee Lee  
Department of Pediatrics, Medical Genetics Center, Asan Medical Center Children's Hospital, Seoul, Korea

**17 : 40~18 : 30 Sponsored Seminar 4**

**Sponsored by Recordati Rare Diseases Japan K.K./POLA PHARMA INC.**

**Chairperson: Fumio Endo**

(Kumamoto-Ezuko Medical Center for the Severely Disabled)

**SS4 Clinical Experience of Carglumic Acid in Hyperammonaemia**

- Sufin Yap  
Department of Inherited Metabolic Diseases, Sheffield Children's NHS Foundation Trust, Sheffield, UK

## Day 2 : Nov. 9 (Fri) Venue 2 (5F Conference Room)

### 9 : 30~10 : 30 Oral 4 : Lysosomal Disorders (Mucopolysaccharidosis)

Chairperson: Aya Narita

(Department of Child Neurology, Tottori University Hospital)

#### O-12 5-plex LC-MS/MS method to measure simultaneously MPS I, II, IIIB, IVA and VI enzyme activities in DBS

- Tsubasa Oguni<sup>1</sup>, Hironori Kobayashi<sup>1,2</sup>, Misa Tanaka<sup>3</sup>, Kenji Orii<sup>4</sup>, Toshiyuki Fukao<sup>4</sup>  
Dung Chi Vu<sup>5</sup>, Can Thi Bich Ngoc<sup>5</sup>, Shunji Tomatsu<sup>2,6</sup>, Michael H. Gelb<sup>7</sup>, Atsushi Nagai<sup>1</sup>  
<sup>1</sup>Clinical Laboratory Division, Shimane University Hospital  
<sup>2</sup>Department of Pediatrics, Shimane University Faculty of Medicine  
<sup>3</sup>Shimadzu Corporation  
<sup>4</sup>Department of Pediatrics, Graduate School of Medicine, Gifu University  
<sup>5</sup>Department of Medical Genetics and Metabolism; Center for rare disease and newborn screening, National Children's Hospital, Hanoi, Vietnam  
<sup>6</sup>Nemours/Alfred I. duPont Children's Hospital, Wilmington, America  
<sup>7</sup>Depts. of Chemistry and Biochemistry, Univ. of Washington, Seattle, USA

#### O-13 NBS method for MPS II of measuring enzyme activity by LC-MS/MS could reduce false positive

- Hironori Kobayashi<sup>1,2</sup>, Tsubasa Oguni<sup>2</sup>, Kimitoshi Nakamura<sup>3</sup>, Ken Momose<sup>3</sup>, Kenji Orii<sup>4</sup>  
Toshiyuki Fukao<sup>4</sup>, Can Thi Bich Ngoc<sup>5</sup>, Dung Chi Vu<sup>5</sup>, Michael H Gelb<sup>6</sup>, Shunji Tomatsu<sup>1,7</sup>  
Misa Tanaka<sup>8</sup>, Kenji Yamada<sup>1</sup>, Yuki Hasegawa<sup>1</sup>, Jun Watanabe<sup>8</sup>, Yoshitomo Notsu<sup>2</sup>,  
Seiji Yamaguchi<sup>1</sup>, Atsushi Nagai<sup>2</sup>, Takeshi Taketani<sup>1</sup>  
<sup>1</sup>Department of Pediatrics, Shimane University Faculty of Medicine  
<sup>2</sup>Clinical Laboratory Division, Shimane University Faculty of Medicine  
<sup>3</sup>Department of Pediatrics, Kumamoto University, Graduate School of Medical Sciences  
<sup>4</sup>Department of Pediatrics, Graduate School of Medicine, Gifu University  
<sup>5</sup>Department of Medical Genetics and Metabolism, Center for rare disease and newborn screening, National Children's Hospital, Hanoi, Vietnam  
<sup>6</sup>Depts. of Chemistry and Biochemistry, Univ. of Washington, Seattle, USA  
<sup>7</sup>Nemours/Alfred I. duPont Children's Hospital, Wilmington, USA  
<sup>8</sup>SHIMADZU Co.

#### O-14 Investigation of neonatal screening for mucopolysaccharidosis types I and II

- Kenji Orii<sup>1,2</sup>, Hironori Kobayashi<sup>3</sup>, Shunji Tomatsu<sup>4</sup>, Dung Vu Chi<sup>5</sup>, Toshiyuki Fukao<sup>2</sup>  
<sup>1</sup>Nagamori children's clinic  
<sup>2</sup>Department of Pediatrics, Gifu graduate school of medicine  
<sup>3</sup>Department of Pediatrics, Shimane University  
<sup>4</sup>Nemours/Alfred I. DuPont Children's Hospital, Wilmington, U.S.A.  
<sup>5</sup>Department of Medical Genetics and Metabolism, National Hospital of Pediatrics, Hanoi, Vietnam

#### O-15 Establishment of immunodeficient murine model of mucopolysaccharidosis type II

- Yohta Shimada<sup>1</sup>, Natsumi Ishii<sup>1</sup>, Motohito Goto<sup>2</sup>, Takashi Higuchi<sup>1</sup>, Hiroshi Kobayashi<sup>1,3</sup>  
Toya Ohashi<sup>1,3</sup>  
<sup>1</sup>Div. of Gene Therapy, Res. Cent. for Med. Sci., The Jikei Univ. Sch. of Med.  
<sup>2</sup>Animal Reso. Tech. Res., Cent. Insti. for exp. animals  
<sup>3</sup>Dept. of Pediatrics, The Jikei Univ. Sch. of Med.

**O-16 Successful Treatment by Early HSCT for Central Nervous System in Patient with MPS type I**

- Narutoshi Yamazaki<sup>1,4</sup>, Yasuyuki Fukuhara<sup>1</sup>, Jyohyon So<sup>2</sup>, Akira Ishiguro<sup>4</sup>, Hiromasa Yabe<sup>3</sup>  
Torayuki Okuyama<sup>2</sup>, Motomichi Kosuga<sup>1,2</sup>

<sup>1</sup>National Center for Child Health and Development, Division of Medical Genetics

<sup>2</sup>National Center for Child Health and Development, Department of Clinical Laboratory Medicine

<sup>3</sup>Center for Matrix Biology and Medicine, Tokai University Graduate School of Medicine

<sup>4</sup>National Center for Child Health and Development, Department of Postgraduate Education and Training Center

**11 : 00~11 : 50 Sponsored Seminar 5 Sponsored by ReqMed Company, Ltd.**

**Chairperson: Yasuyuki Suzuki**

(Medical Education Development Center, Gifu University)

**SS5 Mucopolysaccharidoses Update**

- Shunji Tomatsu<sup>1,2,3</sup>

<sup>1</sup>Nemours/Alfred I. duPont Hospital for Children

<sup>2</sup>Departments of Orthopedics and BioMedical, Skeletal Dysplasia

<sup>3</sup>Department of Pediatrics, Sidney Kimmel Medical College at Thomas Jefferson University

**12 : 00~13 : 00 Luncheon Seminar 4**

**Sponsored by DAIICHI SANKYO COMPANY, LIMITED**

**Chairperson: Shintaku Haruo**

(Osaka City University Graduate School of Medicine)

**LS4 Diagnosis and Management Guidelines for PKU**

- Takashi Hamazaki

Department of Pediatrics, Faculty of Medicine, Osaka City University

**14 : 20~15 : 44 Oral 5 : Lysosomal Disorders (Fabry Disease)**

**Chairpersons: Hitoshi Sakuraba**

(Department of Clinical Genetics, Meiji Pharmaceutical University)

**Mahoko Furujo**

(Department of Pediatrics, Okayama Medical Center, National Hospital Organization)

**O-17 Investigation of characteristics of heterozygous Fabry disease**

- Kazuya Tsuboi, Hiroshi Yamamoto  
LSD Center, Nagoya Central Hospital

**O-18 Molecular and biochemical basis of Japanese patients with Fabry disease**

- Hitoshi Sakuraba<sup>1</sup>, Takahiro Tsukimura<sup>2</sup>, Tadayasu Togawa<sup>2</sup>, Tomoko Shiga<sup>1</sup>, Seiji Saito<sup>3</sup>

Kazuki Ohno<sup>4</sup>, Toshie Tanaka<sup>1</sup>, Atsuko Sato<sup>1</sup>, Tomoko Otsuka<sup>1</sup>

<sup>1</sup>Department of Clinical Genetics, Meiji Pharmaceutical University

<sup>2</sup>Department of Functional Bioanalysis, Meiji Pharmaceutical University

<sup>3</sup>Department of Medical Management and Informatics, Hokkaido Information University

<sup>4</sup>Catalyst, Inc.

**O-19 Mutation spectrum of Japanese families with Fabry disease: genotype-phenotype correlation**

- Masahisa Kobayashi<sup>1</sup>, Eiko Kaneshiro<sup>1</sup>, Toya Ohashi<sup>2</sup>, Yoshikatsu Eto<sup>3</sup>, Hiroyuki Ida<sup>1</sup>  
<sup>1</sup>Department of Pediatrics, The Jikei University School of Medicine  
<sup>2</sup>Division of Gene Therapy, Research Center for Medical Sciences, The Jikei University School of Medicine  
<sup>3</sup>Advanced Clinical Research Center, Institute of Neurological Disorders

**O-20 Correlation of lysoGb3 levels with antibody, age and clinical severities in Fabry diseases**

- Chen Wu<sup>1,2,3</sup>, Takeo Iwamoto<sup>4</sup>, Mohammad Arif Hossain<sup>1,3</sup>, Takashi Miyajima<sup>1,2</sup>, Keiko Akiyama<sup>1</sup>  
Hiroko Yanagisawa<sup>1</sup>, Junko Igarashi<sup>2</sup>, Yoshikatsu Eto<sup>3</sup>  
<sup>1</sup>Advanced Clinical Research Center, Institute of Neurological Disorders  
<sup>2</sup>Rare disease research center, AnGes Inc.  
<sup>3</sup>The Jikei University School of Medicine  
<sup>4</sup>Core Research Facilities for Basic Science, Molecular Cell Biology, The Jikei University School of Medicine

**O-21 Analysis of anti-GLA antibodies and plasma Lyso-Gb3 level in Fabry patients received ERT**

- Yuya Tayama<sup>1</sup>, Tomoko Shiga<sup>2</sup>, Takahiro Tsukimura<sup>1</sup>, Tadayasu Togawa<sup>1</sup>, Hitosi Sakuraba<sup>2</sup>  
<sup>1</sup>Department of Functional Bioanalysis, Meiji Pharmaceutical University  
<sup>2</sup>Department of Clinical Genetics, Meiji Pharmaceutical University

**O-22 Correlations between serum cholesterol and vascular lesions in Fabry disease patients**

- Hiroki Katsuta<sup>1,2,3</sup>, Kazuya Tsuboi<sup>1</sup>, Hiroshi Yamamoto<sup>1</sup>, Hiromi Goto<sup>1</sup>  
<sup>1</sup>LSD Center, Nagoya Central Hospital  
<sup>2</sup>Department of Cell Biology and Development, Graduate School of Medicine Nagoya University  
<sup>3</sup>Division of Embryology

**O-23 Vertebral basilar artery findings and risk of sudden hearing loss in 31 patients with Fabry disease**

- Hiroshi Yamamoto, Kazuya Tsuboi  
LSD Center, Nagoya Central Hospital

**15 : 44~16 : 44 Oral 6 : Lysosomal Disorders (Gaucher's Disease and Others)**

**Chairperson: Hiroshi Kobayashi**

(Division of Gene Therapy, Research Center for Medical Sciences,  
The Jikei University School of Medicine)

**O-24 Current status of substrate reduction therapy for Gaucher disease in Japan**

- Ken Sakurai, Hiroyuki Ida  
Department of Pediatrics, The Jikei University School of Medicine

**O-25 Large soft-tissue masses in a patient with Gaucher disease: Evaluation of SRT**

- Shoji Yano, Neha Mahajan  
Department of Pediatrics, University of Southern California, Los Angeles, USA

**O-26 High risk screening of Neuronal ceroid lipofuscinosis (NCL) I & II by DBS, and pathologic analysis**

- Rina Itagaki<sup>1</sup>, Takeo Iwamoto<sup>3</sup>, Arif Hossain Mohammad<sup>1</sup>, Hiroko Yanagisawa<sup>1</sup>  
Takashi Miyajima<sup>1,2</sup>, Chen Wu<sup>1,2</sup>, Keiko Akiyama<sup>1</sup>, Haruo Shintaku<sup>4</sup>, Yoshikatsu Etou<sup>1</sup>  
<sup>1</sup>Advanced Clinical Research Center, Institute of Neurological Disorder  
<sup>2</sup>Institute of Rare disease, AnGes Co.  
<sup>3</sup>Core Laboratory, Institute of Medical Science, Tokyo Jikei University School of Medicine  
<sup>4</sup>Department of Pediatrics, Osaka City University Graduate School of Medicine

**O-27 LC-MS/MS-based multiplex quantification of LSD enzyme activity**

- Mari Ohira, Ryuichi Mashima, Torayuki Okuyama  
National Center for Child Health and Development

**O-28 A case of acid sphingomyelinase deficiency (ASMD): a C133Y mutation in saposin domain**

- Shozo Ota<sup>1</sup>, Atsuko Noguchi<sup>2</sup>, Yoko Nakajima<sup>3</sup>, Tetsuya Ito<sup>3</sup>, Daiki Kondo<sup>2</sup>, Tsutomu Takahashi<sup>2</sup>  
<sup>1</sup>Division of Neonatal Intensive Care Unit, Akita Red Cross Hospital  
<sup>2</sup>Department of Pediatrics, Akita University Graduate School of Medicine  
<sup>3</sup>Department of Pediatrics, Fujita Health University

**16 : 44~17 : 20 Oral 7 : Disorders of Carbohydrate Metabolism**

**Chairperson: Hideo Sugie**

(Faculty of Health and Medical Sciences, Tokoha University)

**O-29 Analysis of Japanese suspected cases of X-linked glycogenosis type 2**

- Tokiko Fukuda<sup>1</sup>, Hidetoshi Ishigaki<sup>1</sup>, Taiju Hayashi<sup>1</sup>, Rei Urushibata<sup>1</sup>, Hideo Sugie<sup>2</sup>  
<sup>1</sup>Department of Pediatrics, Hamamatsu University School of Medicine  
<sup>2</sup>Faculty of health and Medical Sciences, Tokoha University

**O-30 Effect of treatment of severe cardiomyopathy in glucogen storage disease type 3 with Atkins diet**

- Hidehito Kondo<sup>1,2</sup>, Jun Narita<sup>2</sup>, Takeshi Kimura<sup>2</sup>, Toko Shibuya<sup>2</sup>, Tokiko Fukuda<sup>3</sup>, Hideo Sugie<sup>4</sup>  
Keiichi Ozono<sup>2</sup>, Norio Sakai<sup>5</sup>  
<sup>1</sup>Department of Pediatrics, Japanese Red Cross Kyoto Daiichi Hospital  
<sup>2</sup>Department of Pediatrics, Osaka University Graduate school of Medicine  
<sup>3</sup>Department of Pediatrics, Hamamatsu University Hospital  
<sup>4</sup>Faculty of Health and Medical Sciences, Tokoha University  
<sup>5</sup>Department of Health Science, Child Healthcare and Genetic Science, Osaka University Graduate School of Medicine

**O-31 GBE1 mutation analysis via protein expression studies in non-progressive form of glycogenosis type 4**

- Hiroyuki Iijima<sup>1</sup>, Reiko Iwano<sup>1</sup>, Yukichi Tanaka<sup>2</sup>, Koji Muroya<sup>1</sup>, Tokiko Fukuda<sup>3</sup>, Hideo Sugie<sup>4</sup>  
Kenji Kurosawa<sup>5</sup>, Masanori Adachi<sup>1</sup>  
<sup>1</sup>Department of Endocrinology and Metabolism, Kanagawa Children's Medical Center  
<sup>2</sup>Department of Pathology, Kanagawa Children's Medical Center  
<sup>3</sup>Department of Pediatrics, Hamamatsu University School of Medicine  
<sup>4</sup>Faculty of Health and Medical Sciences, Tokoha University  
<sup>5</sup>Division of Medical Genetics, Kanagawa Children's Medical Center



## 17 : 20~18 : 32 Oral 8 : Screening

Chairperson: Yosuke Shigematsu

(Department of Pediatrics, University of Fukui)

### O-32 The efficacy of a second-tier test for newborn screening using LC/MS/MS method

- Nobuyuki Ishige<sup>1</sup>, Kazuhiro Watanabe<sup>1</sup>, Satomi Hasegawa<sup>1</sup>, Kaoru Konishi<sup>1</sup>, Yasumi Sera<sup>1</sup>

Mika Ishige<sup>2</sup>

<sup>1</sup>Division of Newborn Screening, Tokyo Health Service Association

<sup>2</sup>Department of Pediatrics and Child Health, Nihon University School of Medicine

### O-33 Newborn screening for CPT2 deficiency in Japan using (C16 + C18:1)/C2 and C14/C3

- Go Tajima<sup>1,2</sup>, Keiichi Hara<sup>3</sup>, Miyuki Tsumura<sup>2</sup>, Reiko Kagawa<sup>2</sup>, Satoshi Okada<sup>2</sup>, Miori Yuasa<sup>4</sup>

Ikue Hata<sup>4</sup>, Yosuke Shigematsu<sup>4</sup>, Seiji Yamaguchi<sup>5</sup>

<sup>1</sup>Division of Neonatal Screening, Research Institute, National Center for Child Health and Development

<sup>2</sup>Department of Pediatrics, Hiroshima University Graduate School of Biomedical & Health Sciences

<sup>3</sup>Department of Pediatrics/Institute for Clinical Research, National Hospital Organization Kure Medical Center

<sup>4</sup>Department of Pediatrics, School of Medical Sciences, University of Fukui

<sup>5</sup>Department of Pediatrics, Shimane University Faculty of Medicine

### O-34 Assessment of infants with abnormal newborn screening for systemic primary carnitine deficiency

- Kimihiko Oishi<sup>1,2</sup>, Lissette Estrella<sup>1</sup>, Ashley Birch<sup>1</sup>, Ruth Kornreich<sup>1</sup>, Lisa Edelmann<sup>1</sup>

Pankaj Prasun<sup>1</sup>, Chunli Yu<sup>1</sup>, George Diaz<sup>1</sup>

<sup>1</sup>Departments of Genetics and Genomic Sciences, Pediatrics, Icahn School of Medicine at Mount Sinai, New York, USA

<sup>2</sup>Department of Pediatrics, Jikei University School of Medicine

### O-35 Long-term outcomes in the patients diagnosed by tandem mass screening in trial period

- Chikahiko Numakura<sup>1</sup>, Go Tajima<sup>2</sup>, Hironori Kobayashi<sup>3</sup>, Osamu Sakamoto<sup>4</sup>, Yosuke Shigematsu<sup>5</sup>

Seiji Yamaguchi<sup>3</sup>

<sup>1</sup>Department of Pediatrics, Yamagata University Faculty of Medicine

<sup>2</sup>Division of Neonatal Screening, Research Institute, National Center for Child Health and Development

<sup>3</sup>Department of Pediatrics, Shimane University Faculty of Medicine

<sup>4</sup>Department of Pediatrics, School of Medicine, Tohoku University

<sup>5</sup>Department of Pediatrics, Faculty of Medical Sciences, University of Fukui

### O-36 Preliminary study on NBS for inborn errors of cobalamin metabolism by hypomethioninemia

- Reiko Kagawa<sup>1</sup>, Go Tajima<sup>1,2</sup>, Takako Maeda<sup>2</sup>, Keiichi Hara<sup>3</sup>, Yutaka Nishimura<sup>4</sup>

Yosuke Shigematsu<sup>5</sup>

<sup>1</sup>Department of Pediatrics, Hiroshima University Hospital

<sup>2</sup>Division of Neonatal Screening, National Center for Child Health and Development

<sup>3</sup>Department of Pediatrics, National Hospital Organization Kure Medical Center and Chugoku Cancer Center

<sup>4</sup>Maternal and Fetal Medicine Center, Hiroshima City Hiroshima Citizens Hospital

<sup>5</sup>Department of Pediatrics, University of Fukui