

# The 51st Annual Meeting of Japanese Society of Child Neurology

May 28-30, 2009  
Yonago Convention Center, Japan  
Yonago City Culture Hall, Japan

## PROGRAM

Thursday, May 28, 2009

Yonago Convention Center				
	Venue A	Venue B	Venue C	Venue D
	1F Multi-purpose Hall	2F Small Hall	3F Conference Room No.2	3F Conference Room No.3
8:00				
9:00	Opening Ceremony	<b>Presidential Lecture</b> 9:00-9:30 <b>Therapeutic strategy for neurogenetic disorders in childhood</b> KOUSAKU OHNO Chair:KAZUIE IINUMA		
	Presidential Lecture			
10:00	<b>Keynote Lecture 1</b> 9:30-10:00 <b>Perspective of the medical treatments for the handicapped children</b> MASATAKA ARIMA Chair:YUKIO FUKUYAMA			
	<b>Keynote Lecture 2</b> 10:00-10:30 <b>Expectation for the Child Neurology derived from the Non-Profit Organization activity</b> KENZO TAKESHITA Chair:SHIGEHICO KAMOSHITA			
11:00	<b>Special Lecture 1</b> 10:30-11:20 <b>Experience-dependent plasticity of the developing visual system</b> YOSHIO HATA Chair:TOYOJIRO MATSUSHI			
12:00	<b>International Invited Lecture 1</b> 11:20-12:20 <b>Childhood white matter disorders — from MRI patterns to disease genes</b> MARJO S VAN DER KNAAP Chair:MASAYA SEGAWA			
13:00	<b>Luncheon Seminar 1</b> 12:30-13:30 Chair:TAKAO TAKAHASHI	<b>Luncheon Seminar 2</b> 12:30-13:30 Chair:ATSUO NEZU		
14:00	<b>International Invited Lecture 2</b> 14:00-15:00 <b>Botulinum toxin in the treatment for children with cerebral palsy — update 2009</b> FLORIAN HEINEN Chair:MAKIKO KAGA	<b>Symposium 2</b> 14:00-16:00 Chair:HIDEO SUGIE Chair:EIJI NANBA		
15:00	<b>Symposium 1</b> 15:00-17:00 Chair:YUJI IWASAKI Chair:MASAYUKI SASAKI		<b>acute encephalopathy 1(biomarker)</b> 15:00-16:10 <b>(O-001-007)</b> Chair:HIDETO YOSHIKAWA Chair:HIDEO YAMANOUCI	<b>imaging analysis</b> 15:00-16:20 <b>(O-019-026)</b> Chair:JUN NATSUME Chair:HIDEAKI KANEMURA
16:00		<b>Workshop 2</b> 16:00-18:00 Chair:MASUMI INAGAKI Chair:TATSUYA KOEDA	<b>acute encephalopathy 2 (clinical study)</b> 16:10-17:10 <b>(O-008-013)</b> Chair:JUNICHI TAKANASHI Chair:AKIHISA OKUMURA	<b>neurosurgery</b> 16:20-17:10 <b>(O-027-031)</b> Chair:TAKAO ENOMOTO Chair:HIROAKI SAKAMOTO
17:00			<b>acute encephalopathy 3 (others)</b> 17:10-18:00 <b>(O-014-018)</b> Chair:KIYOTAKA MURAKAMI Chair:MASASHI SHIOMI	<b>peripheral nerve</b> 17:10-17:50 <b>(O-032-035)</b> Chair:YOSHIHIRO TAKEUCHI Chair:NOBUTADA TACHI
18:00				
19:00				
20:00				

	Yonago City Culture Hall	Yonago Convention Center				
	Venue E	Poster Presentation Venue				
	1F Main Hall	International Conference Room				
8:00						
9:00						
10:00		Poster Session				
11:00						
12:00						
13:00						
13:00	<b>Luncheon Seminar 3</b> 12:30-13:30 Chair:MAKIKO OSAWA					
14:00		<b>congenital anomaly · chromosomal abnormality 1</b> 15:00-16:00 <b>(P-001-012)</b> Chair:MARIKO MAEZAWA Chair:TAKAHITO WADA	<b>metabolic disorder 1(mitochondrial disease)</b> 15:00-16:00 <b>(P-031-042)</b> Chair:KAZUTOSHI NAKANO Chair:TATSUYA FUJII	<b>developmental disorder 1 (support system)</b> 15:00-15:50(P-061-070) Chair:MASAHITO MIYAZAKI Chair:MARIKO YUGE	<b>epilepsy · seizure 1 (clinical study)</b> 15:00-16:00 <b>(P-81-92)</b> Chair:HITOSHI SEJIMA Chair:HIROAKI SHIIHARA	<b>infectious and autoimmune disease 1</b> 15:00-15:40(P-108-115) Chair:HAJIME TANAKA Chair:MASAKI OHNO
15:00	<b>Workshop 1</b> 15:00-17:00 Chair:HIROKAZU OGUNI Chair:KENJI SUGAI	<b>congenital anomaly · chromosomal abnormality 2</b> 16:00-16:40(P-013-020) Chair:EIJI NAKAGAWA Chair:HITOSHI OSAKA	<b>metabolic disorder 2 (amino acid · lysosome)</b> 16:00-16:45(P-043-051) Chair:HITOSHI SAKURABA Chair:KOJI INUI	<b>psychiatric and behavioral disorder</b> 15:50-16:40 <b>(P-071-080)</b> Chair:MANA KURIHARA	<b>epilepsy · seizure 2 (treatment)</b> 16:00-16:35(P-093-099) Chair:KITAMI HAYASHI Chair:OSAMU KANAZAWA	<b>infectious and autoimmune disease 2 · pathology</b> 15:40-16:35(P-116-126) Chair:KYOKO ITOH Chair:HIROSHI YOSHIOKA
16:00		<small>congenital anomaly · chromosomal abnormality 3 · phacomatosis 16:40-17:00(P-021-030)</small> Chair:YUKIO SAWAISHI Chair:KAZUYA ITOMI	<b>metabolic disorder 3(peroxisome · metal)</b> 16:45-17:30(P-052-060) Chair:ZENICHIRO KATO Chair:NORIKAZU SHIMIZU		<b>epilepsy · seizure 3 (treatment)</b> 16:35-17:15(P-100-107) Chair:MASAHARU OHFU Chair:MASAHIRO KIKUCHI	<b>epilepsy · seizure 4 (others)</b> 16:35-17:30 <b>(P-127-137)</b> Chair:TATEKI FUJIWARA Chair:TOMOYUKI TAKANO
17:00		Poster removal				
18:00						
19:00						
20:00						

Friday, May 29, 2009

Yonago Convention Center					
	Venue A	Venue B	Venue C	Venue D	5F Conference Room No.5
	1F Multi-purpose Hall	2F Small Hall	3F Conference Room No.2	3F Conference Room No.3	
8:00	<b>Morning Seminar 1</b> 8:00-9:00 Chair:KAZUIE IINUMA	<b>Morning Seminar 2</b> 8:00-9:00 Chair:SUSUMU ITOH			
9:00	<b>Special Lecture 2</b> 9:00-9:50 <b>Neuroimaging Can Do for Developmental Social Psychology?</b> NORIIHIRO SADATO Chair:TOSHIKI HASHIMOTO	<small>Asian Oceanian Child Neurology International Didactic Program 9:00-9:30 Role of electromyography in diagnosis of hereditary metabolic diseases WANG SHUANG Chair:KATSUNORI FUJII</small>	<b>developmental disorder 5 (screening)</b> 9:00-10:10 (O-072-078) Chair:HIROAKI KAKINUMA Chair:SATOSHI TAKADA	<b>neonate</b> 9:00-9:50 (O-107-111) Chair:FUMIO HAYAKAWA Chair:SYUICHI TSUNEISHI	
10:00	<b>Symposium 3</b> 9:50-12:00 Chair:HIDEMOTO KUBOTA Chair:YOKO OHTSUKA	<b>Workshop 3</b> 10:00-12:00 Chair:MASATO NIIMURA Chair:KAZUKIYO ONODERA	<b>developmental disorder 5 (management)</b> 10:10-11:00(O-079-083) Chair:AKIHIRO YASUHARA Chair:SHINICHI HIRABAYASHI	<b>cerebral palsy 1</b> 9:50-11:00 (O-112-118) Chair:TATEO SUGIMOTO Chair:HIROSHI OZAWA	
11:00			<b>developmental disorder 7 (Others)</b> 11:00-11:50(O-084-088) Chair:TATSUYA OGINO Chair:MASAO AIHARA	<b>support system of developmental delay</b> 11:00-12:00 (O-119-124) Chair:HIDEO NAGAO Chair:JUNICHI FURUSHO	
12:00					
13:00	<b>Luncheon Seminar 4</b> 12:30-13:30 Chair:KOUICHI YAMANO	<b>Luncheon Seminar 5</b> 12:30-13:30 Chair:YOKO OHTSUKA			
14:00	<b>JSCN General Assembly</b> 13:30-14:30				
15:00	<b>Presidential Requested Lecture</b> 14:30-15:00 MAKIKO OSAWA Chair:TERUHISA MIIKE				
15:00	<b>Presentation of JSCN Awards to Outstanding young Investigators</b> 15:00-15:30 Chair:KOUICHI YAMANO				
16:00	<b>English session 1</b> 15:30-16:30 (O-036-041) Chair:MITSURU KAWAI Chair:TATSUSHI TODA	<b>developmental disorder 2 (Pathophysiology)</b> 15:30-16:20(O-054-058) Chair:YUSHIRO YAMASHITA Chair:JUN KOHYAMA	<b>congenital anomaly · chromosomal abnormality 4</b> 15:30-16:20(O-089-093) Chair:MIHO NAKAMURA Chair:KENJI KUROSAWA	<b>development and others</b> 15:30-16:40 (O-125-131) Chair:KIYOTAKA TOMIWA Chair:TOYOKO KANDA	
17:00	<b>English session 2</b> 16:30-17:30 (O-042-047) Chair:TOSHISABURO NAGAI Chair:YOICHI SAKAKIHARA	<b>developmental disorder 3 (drug treatment)</b> 16:20-17:30 (O-059-065) Chair:AKINORI HOSHIKA Chair:ASAYO ISHIZAKI	<b>genetics 1</b> 16:20-17:20 (O-094-099) Chair:MITSUHIRO KATO Chair:SHINJI SATTOH	<b>infectious and autoimmune disease 3</b> 16:40-17:40 (O-132-137) Chair:HISASHI KAWAWAKI Chair:YUKITOSHI TAKAHASHI	
18:00	<b>English session 3</b> 17:30-18:30 (O-048-053) Chair:SHINJI FUSHIKI Chair:HIROYUKI IDA	<b>developmental disorder 4 (learning disorder)</b> 17:30-18:30 (O-066-071) Chair:TATSUYA KOEDA Chair:TAKASHI HAYASHI	<b>genetics 2</b> 17:20-18:30 (O-100-106) Chair:KAYOKO SAITO Chair:TAKEO KUBOTA	<b>infectious and autoimmune disease 4</b> 17:40-18:30(O-138-142) Chair:TOSHIO HANAI Chair:MASARU TATSUNO	
19:00					
20:00	<b>Evening Seminar 1</b> 19:00-21:00 Chair:TASUKU MIYAJIMA Chair:HAJIME TANAKA	<b>Evening Seminar 2</b> 19:00-20:30 Chair:TATEO SUGIMOTO	<b>Evening Seminar 3</b> 19:00-21:00 Chair:TAKASHI OHYA Chair:KYOKO HOSHINO Chair:TAKAKO JODOI Chair:KUMI KATO	<b>Evening Seminar 4</b> 19:00-21:00 Chair:MASUMI INAGAKI	<b>Evening Seminar 5</b> 19:00-20:00 Chair:TOSHIRO HARA
21:00					

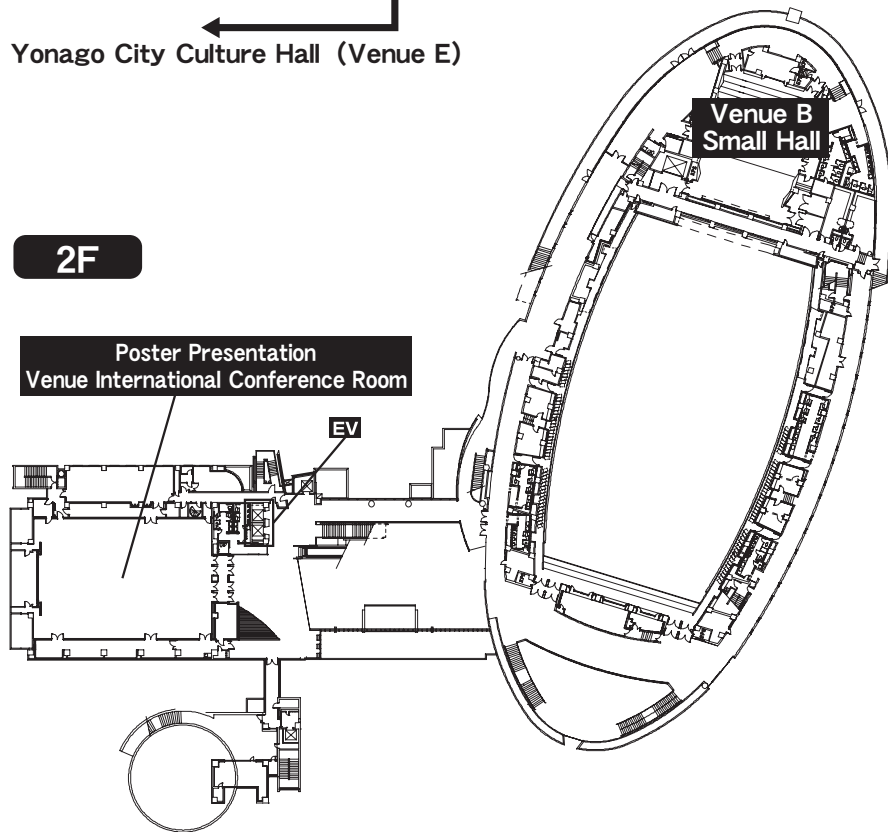
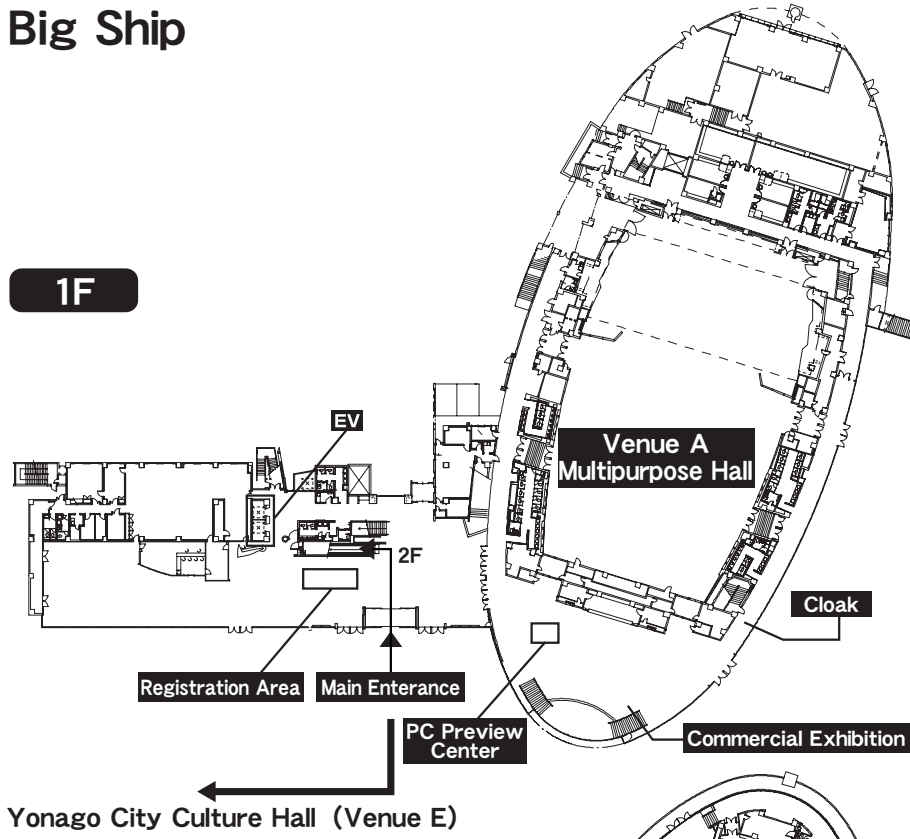
Yonago City Culture Hall		Yonago Convention Center				
Venue E		Poster Presentation Venue				
1F Main Hall		International Conference Room				
8:00	<b>Morning Didactic Seminar</b> 8:00-9:00 Chair: Akira Oka Chair: Ushiro Shin	<b>Poster Session</b>				
9:00	<b>Didactic Lecture 1</b> 9:00-9:45 <b>Current topics of brain malformation and epilepsy: Age-dependent epileptic encephalopathy and interneuronopathy</b> MITSUHIRO KATO Chair: SHINICHI HIROSE					
10:00	<b>Didactic Lecture 2</b> 9:45-10:30 <b>Immune central nervous system disorders in childhood: up-to-date</b> TOSHIRO HARA Chair: SELJI YAMAGUCHI					
11:00	<b>Didactic Lecture 3</b> 10:30-11:15 <b>Cranial imagings and brain pathology of neurological diseases in children</b> TUKASA SASAKI Chair: MARIKO MOMOI					
	<b>Didactic Lecture 4</b> 11:15-12:00 <b>Cranial imagings and brain pathology of neurological diseases in children</b> SACHIO TAKASHIMA Chair: KENZO TAKESHITA					
12:00						
13:00	<b>Luncheon Seminar 6</b> 12:30-13:30 Chair: SHINICHI HIROSE					
14:00						
15:00						
16:00	<b>epilepsy · seizure 5 (test)</b> 15:30-16:20 <b>(O-143-147)</b> Chair: HIROKAZU OGUNI Chair: HIDEJI HATTORI					
17:00	<b>epilepsy · seizure 6 (treatment)</b> 16:20-17:40 <b>(O-148-155)</b> Chair: JUN TOHYAMA Chair: KATSUHIRO KOBAYASHI	<b>developmental disorder 9 (Others)</b> 16:25-17:15(P-149-158) Chair: JIRO ONO Chair: AKEMI TOMODA	<b>acute encephalopathy 4(Others)</b> 16:05-17:05(P-173-184) Chair: MITSUO TOYOSHIMA Chair: KIMIO MINAGAWA	<b>adverse drug reaction 1</b> 16:15-17:20 <b>(P-204-216)</b> Chair: ATSUSHI ARAKI Chair: HITOSHI YAMAMOTO	<b>cerebral palsy · support system 3</b> 16:30-17:15(P-238-246) Chair: NAOYA ITOKAZU Chair: NOBUO KOIDE	<b>muscular disease 2</b> 16:15-17:30 <b>(P-265-273)</b> Chair: MUNEAKI MATSUO Chair: MASAYUKI SHIMONO
18:00	<b>epilepsy · seizure 7 (genetics)</b> 17:40-18:30 <b>(O-156-160)</b> Chair: YASUHIKO KAWAKAMI Chair: HARUMI YOSHINAGA	<b>developmental disorder 10 (ADHD · LD)</b> 17:15-17:50(P-159-165) Chair: HIDEO SHIMOIZUMI Chair: TASUKU MIYAJIMA	<b>acute encephalitis · AERRPS</b> 17:05-17:55(P-185-194) Chair: TETSUO MATSUZAKA Chair: YOSHIHIRO MAEGAKI	<b>metabolic disorder 4(others)</b> 17:20-18:05(P-217-225) Chair: KATSUNORI FUJII Chair: SHINJIRO AKABOSHI	<b>others (imaging · involuntary movement · peripheral nerve)</b> 17:15-18:00(P-247-255) Chair: ATSUSO NEZU Chair: YOSHIAKI SAITO	<b>genetics 3 · others</b> 17:30-18:25 <b>(P-274-284)</b> Chair: KATSUO SUGITA Chair: SUMIMASA YAMASHITA
19:00		<b>Poster removal</b>				
20:00	<b>Evening Seminar 6</b> 19:00-21:00 Chair: ATSUSO NEZU Chair: MIZUE IAI					
21:00						

# Saturday, May 30, 2009

Yonago Convention Center			
	Venue A	Venue B	Venue C
	1F Multi-purpose Hall	2F Small Hall	3F Conference Room No.2
8:00	<b>Morning Seminar 3</b> 8:00-9:00 Chair:MAKIKO OSAWA	<b>Morning Seminar 4</b> 8:00-9:00 Chair:TETSUO MATSUZAKA	
9:00	<b>Didactic Lecture 5</b> 9:00-9:45 <b>Inflammatory mechanisms of white matter injury in premature infants</b> AKIRA OKA Chair:SHINICHI NIJIMA		<b>acute encephalopathy 5 (Others)</b> 9:00-10:00 <b>(O-161-166)</b> Chair:YUTAKA AWAYA Chair:HIDEO AIBA
10:00	<b>Didactic Lecture 6</b> 9:45-10:30 <b>Recent advances in muscular dystrophy research-toward therapies-</b> IKUYA NONAKA Chair:MASAFUMI MATSUO	<b>Symposium 4</b> 9:00-11:00 Chair:MASAHIKO INOUE Chair:TOSHIAKI HASHIMOTO	
11:00	<b>Special Lecture 3</b> 10:30-11:20 <b>Neural Differentiation and Cell Therapy using pluripotent stem cells.</b> HIDEYUKI OKANO Chair:TAKAO TAKAHASHI		<b>acute encephalopathy 6 (Others)</b> 10:00-11:10 <b>(O-167-173)</b> Chair:NAOYUKI TANUMA Chair:TOMOHide GOTO
			<b>adverse drug reaction 2</b> 11:10-11:50 <b>(O-174-177)</b> Chair:TAKEHIKO MORIMOTO Chair:SHUJI WAKAI
12:00	<b>Closing Ceremony</b>		
13:00			
14:00	<b>Public Forum :</b> <b>For the Healthy Development of Children's soul</b> 13:00-16:00 Part1 Special Lecture:RIKA KAYAMA Part2 Support for Developmental Disability MADOKA SHIOTA MAKIKO OKUYAMA CHIHARU MASAHIKO INOUE		<b>The 4th Meeting of the Japanese Society for Children's Myasthenia Gravis</b> 12:30-16:30 Chair:MASATOSHI HAYASHI Chair:MASAHARU HAYASHI Chair:YOSHIKO NOMURA  Special Lecture:MASAHARU TAKAMORI
15:00			
16:00			
17:00			

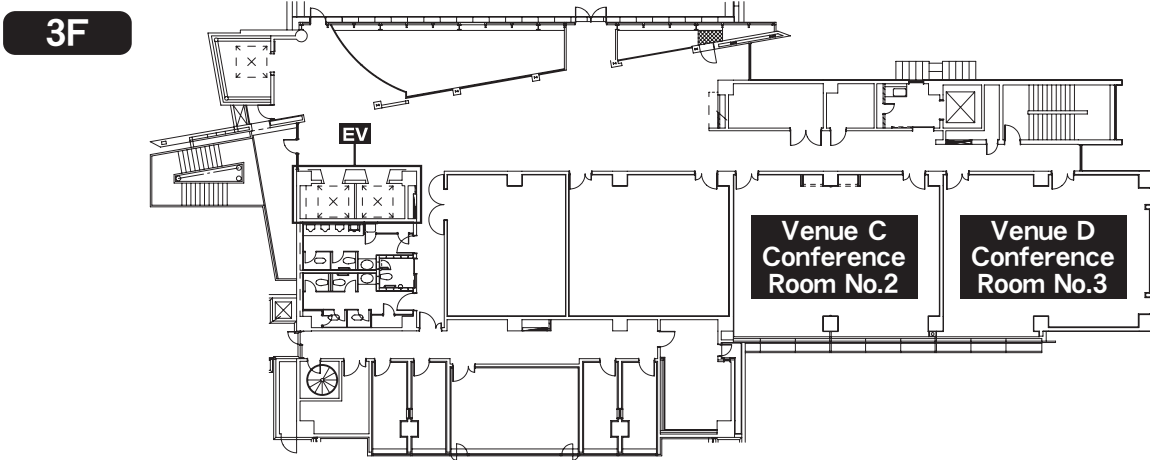
	<b>Yonago Convention Center</b>	<b>Yonago City Culture Hall</b>
	<b>Venue D</b>	<b>Venue E</b>
	<b>3F Conference Room No.3</b>	<b>1F Main Hall</b>
8:00		
9:00	<b>metabolic disorder 5(mitochondrial disease)</b> 9:00-9:50 <b>(O-178-182)</b> Chair:YUICHI GOTO Chair:ETSUO NAITO	<b>PC movie 1</b> 9:00-9:50 <b>(O-194-198)</b> Chair:KENJI YOKOCHI Chair:MASAHARU HAYASHI
10:00	<b>metabolic disorder 6(others)</b> 9:50-10:40 <b>(O-183-187)</b> Chair:HIROKO KODAMA Chair:NOBUYUKI SHIMOZAWA	<b>PC movie 2</b> 9:50-10:50 <b>(O-199-204)</b> Chair:TATSURO IZUMI Chair:MASAYUKI SASAKI
11:00	<b>muscular disease 3</b> 10:40-11:40 <b>(O-188-193)</b> Chair:TADAYUKI ISHIHARA Chair:YUKITOSHI ISHIKAWA	<b>infectious and autoimmune disease 6</b> 10:50-12:00 <b>(O-205-211)</b> Chair:TAKASHI ICHiyAMA Chair:RYUTARO KIRA
12:00		
13:00		
14:00		
15:00		
16:00		
17:00		

# Yonago Convention Center Big Ship

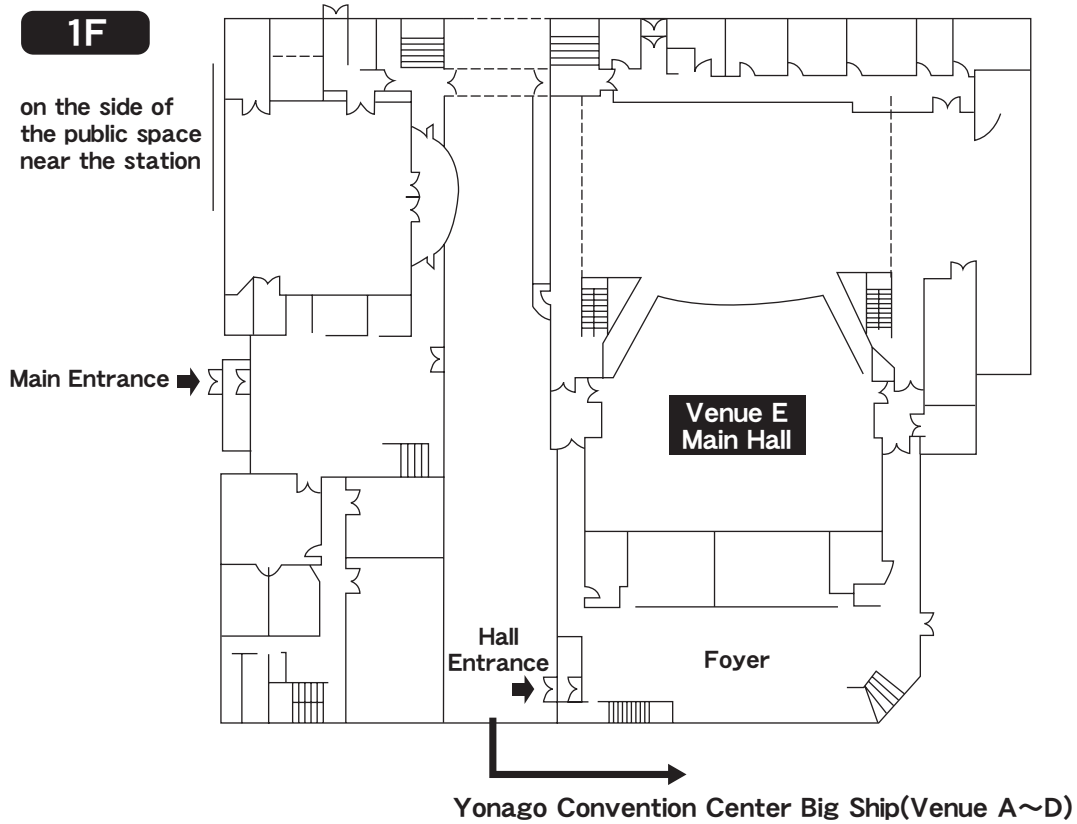




# Yonago Convention Center Big Ship



# Yonago City Culture Hall



## Presidential Lecture

### **Therapeutic strategy for neurogenetic disorders in childhood**

KOUSAKU OHNO\*

Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University

## Presidential Requested Lecture

### **Message for the young child neurologists - fusion of the practice for the children and the progress of the Child Neurology as a science -**

MAKIKO OSAWA\*

Professor and Chairperson, Department of Pediatrics, Tokyo Women's Medical University

## Keynote Lecture 1

### **Perspective of the medical treatments for the handicapped children**

MASATAKA ARIMA\*

Honorary Director, National Center Hospital of Neurology and Psychiatry, Tokyo Metropolitan East Ryoiku Center

## Keynote Lecture 2

### **Expectation for the Child Neurology derived from the Non-Profit Organization activity**

KENZO TAKESHITA\*

Professor Emeritus, Tottori University, NPO: The Apple House, Consultation Center for Children (NPO Fukuoka Network for Protecting Children's Soul)

## Special Lecture 1

### **Experience-dependent plasticity of the developing visual system**

YOSHIO HATA\*

Division of Integrative Bioscience, Graduate School of Medical Sciences, Tottori University,

## Special Lecture 2

### **Neuroimaging Can Do for Developmental Social Psychology?**

NORISHIRO SADATO\*

Division of Cerebral Integration, National Institute for Physiological Sciences

## Special Lecture 3

### **Neural Differentiation and Cell Therapy using pluripotent stem cells.**

HIDEYUKI OKANO\*

Department of Physiology, Keio University School of Medicine

## Presentation of JSCN Awards to Outstanding young Investigators

KOICHI YAMANO\*

Department of Pediatrics, Osaka City University Graduate School of Medicine

## International Invited Lecture 1

### **Childhood white matter disorders — from MRI patterns to disease genes**

MARJO S VAN DER KNAAP\*

Department of Child Neurology, VU University Medical Center, Amsterdam, Netherlands

## International Invited Lecture 2

### **Botulinum toxin in the treatment for children with cerebral palsy — update 2009**

FLORIAN HEINEN \*

Department of Pediatric Neurology and Developmental Medicine, Children's Hospital, Ludwig-Maximilians-University, Munich, Germany

## Didactic Lecture 1

### **Current topics of brain malformation and epilepsy: Age-dependent epileptic encephalopathy and interneuronopathy**

MITSUHIRO KATO\*

Course of Developmental and Bio-Defending Medicine, Department of Pediatrics, Faculty of Medicine, Yamagata University

## Didactic Lecture 2

### **Immune central nervous system disorders in childhood: up-to-date**

TOSHIRO HARA \*

Department of Clinical Medicine, Faculty of Medical Sciences, Kyusyu University

## Didactic Lecture 3

### **Cranial imagings and brain pathology of neurological diseases in children**

TUKASA SASAKI\*

Mental Hygiene Supporting Center Room (Professor, Manager), Division for Counseling and Support, The University of Tokyo

## Didactic Lecture 4

### **Cranial imagings and brain pathology of neurological diseases in children**

SACHIO TAKASHIMA \*

Yanagawa Ryoiku Center: Institute for Developmental Disabilities, International University of Health and Welfare Research Institute of Health and Welfare Sciences Graduate School

## Didactic Lecture 5

### **Inflammatory mechanisms of white matter injury in premature infants**

AKIRA OKA \*

Department of Pediatrics, Faculty of Medicine, The University of Tokyo

## Didactic Lecture 6

### **Recent advances in muscular dystrophy research- toward therapies-**

IKUYA NONAKA \*

National Center Hospital of Neurology and Psychiatry

## Symposium 1

### **Home care in children with severe motor and intellectual disabilities**

MASAYUKI SASAKI\*

National Center Hospital of Neurology and Psychiatry

### **Medical and welfare home support by Center for Children or Persons with Severe Motor and Intellectual Disabilities**

MASAO KUMODE\*

Biwako Gakuen Medical and Welfare Center, Kusatsu

### **The relationship of NICU, Pediatric hospital and handicapped Children's hospital**

HIROSHI OZAWA \*

Department of Pediatrics, Shimada Ryoiku Center : Institute for Developmental Disabilities

**The relationship of NICU, Pediatric hospital and handicapped Children's hospital**

HIROTOSHI MAEDA\*  
Aozora Medical Clinic, Matsudo

**Home-based Paediatric palliative care in the United Kingdom**

RYOHEI TATARA\*  
Department of Pediatrics, Department of Palliative care, Osaka City Kita Hospital

## Symposium 2

**Enzyme replacement therapy, and the consequence of abnormal autophagy in Pompe disease**

TOKIKO FUKUDA\*  
Department of Pediatrics, Jichi Medical University

**Exon-skipping therapy using antisense-morpholino for DMD: results in preclinical studies and clinical application**

AKINORI NAKAMURA\*  
Department of Molecular Therapy, National Center of Neurology and Psychiatry

**Mitochondrial disorders - update review of diagnosis and treatment -**

YASUTOSHI KOGA\*  
Department of Pediatrics and Child Health, Kurume University School of Medicine

**Construction of a research resource repository for mental retardation and genetic analyses**

YUICHI GOTO\*  
Department of Mental Retardation and Birth Defect Research, National Center of Neurology and Psychiatry

**Chemical chaperone therapy: A new molecular therapeutic approach to neurogenetic diseases**

YOSHIYUKI SUZUKI\*  
Research Institute of Health and Welfare Sciences, Graduate School of International University of Health and Welfare

**Revolutionary progress and clinical application of digital karyotyping by array-CGH**

TOSHIYUKI YAMAMOTO\*  
International Research and Educational Institute for Integrated Medical Sciences

## Symposium 3

**Management of adult patients with epilepsy at a department of child neurology of a university hospital**

FUMIKA ENDO\*  
Child Neurology, Dentistry and Pharmaceutical Sciences, Okayama University Graduate School of Medicine

**Epilepsy in inpatients with severe motor and intellectual disabilities**

TORU KONISHI\*  
Nagaoka Ryoikuen

**From the standpoint of rehabilitation**

HIDETOMO KUBOTA\*  
National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders

**From the standpoint of patient group**

KEIKO WATANABE\*  
Branch of Tottori Prefecture, Japanese Epilepsy Association

**The comprehensive management for the epilepsy patients who have reached an adult age**

KENICHI SUZUKI\*  
Planning Director of Minister's Secretariat, Ministry of Health, Labour and Welfare

**From the standpoint of an epilepsy special clinic**

TATEKI MORIKAWA\*  
Morikawa Clinic, Studying Facility of Japanese Epilepsy Association

## Symposium 4

### **Special Educaiton of Preschool for Hifunctional Pervasive Developmental Disorders**

TOMOKO INOUE\*

Course of Special Needs Education, Naruto University of Education

### **Pharmacologic treatment in autism**

KENJI MORI\*

Department of Pediatrics, University of Tokushima Graduate School of Medical Science

### **The parent training at Tottori Prefectural Rehabilitation Center for Children with Disabilities**

TSUNEMATSU MIHOKO\*

Tottori City Sogo Ryoiku Center : Institute for Developmental Disabilities

### **The support system for autism spectrum disorders (ASD) with secondary emotional difficulties**

MASAHIKO INOUE\*

Department of Clinical Psychology, Tottori University Faculty of Medicine Graduate School of Medical Sciences

### **The secondary emotional difficulties of pervasive developmental disorders in adolescence**

MOTOMI TOICHI\*

Graduate School of Medicine Kyoto University, Human Health Science

## Morning Diadactic Seminar

Meeting of Ministry of Health, Labour and Welfare Japan

## Workshop 1

### **Antiepileptic drug treatment in West syndrome**

YASUHIRO SUZUKI\*

Osaka Medical Center and Research Institute for Maternal and Child Health

### **ACTH therapy for infantile sapsms: Extremely low-dose ACTH step-up protocol**

HIROKAZU OGUNI\*

Department of Pediatrics, Tokyo Women's Medical University

### **A comparative study of the tapering period of ACTH therapy for West syndrome**

SHIRO OZASA\*

Department of Child Development, Faculty of Medical and Pharmaceutical Sciences, Kumamoto University

### **Pharmacological treatment for West syndrome refractory to ACTH theapy**

KENJI SUGAI\*

Department of Child Neurology, National Center Hospital of Neurology and Psychiatry

### **Pharmacological treatment for West syndrome refractory to ACTH theapy**

HIROSHI BABA\*

Department of Neurosurgery, National Nagasaki Medical Center, Omura, Nagasaki

## Workshop 2

### **Clinical examination of developmental dyslexia**

MASUMI INAGAKI\*

Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry

### **Prevalence of reading disability in Japanese school children**

TORU HOSOKAWA\*

Faculty of Education, Tohoku University Graduate School of Education

### **Functional imaging studies in Japanese dyslexic children**

AYUMI SEKI\*

Department of Education, Faculty of Regional Sciences, Tottori University

**Education and Therapy of Dyslexia, Clinical Approach, Assessment and Training in LD center of Osaka Medical College**

EIJI WAKAMIYA\*  
Department of Medical Hygienic, Aino University

**Developmental Facilitation of reading and writing in children with LDs**

TOSHIHIDE KOIKE\*  
Department of Education, Tokyo Gakugei University

## Workshop 3

**Molecular pathology of Neurofibromatosis type 1**

NORIE ARAKI\*  
Department of Tumor Genetics and Biology, Kumamoto University Graduate School of Medicine

**Clinical Features of Neurofibromatosis1**

AKIRA KURAMOCHI\*  
Department of Dermatology, Saitama Medical University

**Cerebral lesions of tuberous sclerosis complex (TSC)**

MASASHI MIZUGUCHI\*  
Department of Developmental Medical Sciences, The University of Tokyo Graduate School of Medicine

**Dermatologic Manifestations in Tuberous Sclerosis Complex**

MARI KANEDA\*  
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University

**Molecular pathology of TSC**

KATSUMI HIGAKI\*  
Research Center for Bioscience and Technology, Tottori University

## Morning Seminar 1

TATEKI FUJIWARA\*  
National Epilepsy Center, Shizuoka Medical Institute of Neurological Disorders

## Morning Seminar 2

KOU KAWADA\*<sup>1</sup>, KITAMI HAYASHI<sup>2</sup>  
<sup>1</sup> Department of Neurosurgery National Kagawa Children's Hospital  
<sup>2</sup> Division of Neurology and Developmental Pediatrics Tokyo Women Medical University Yachiyo Medical Center

## Morning Seminar 3

SHINICHI NIJIMA\*  
Juntendo Department of Pediatric General and Urogenital Surgery, Juntendo University

## Morning Seminar 4

KENJI SUGAI\*  
Departments of Child Neurology National Center Hospital for Mental, Nervous and Muscular Disorders, National Center of Neurology and Psychiatry

## Luncheon Seminar 1

TAKASHI OKADA\*  
Department of Psychiatry, Kyoto University Hospital

## Luncheon Seminar 2

TATSUHIRO OCHIAI\*  
Department of Orthopaedic Surgery, Miyagi Takuto Medical Center

### Luncheon Seminar 3

IKUYA NONAKA\*

National Center Hospital for Mental, Nervous and Muscular Disorders, National Center of Neurology and Psychiatry

### Luncheon Seminar 4

YUSHIRO YAMASHITA\*

Department of Pediatrics and Child Health Kurume University School of Medicine

### Luncheon Seminar 5

GREGORY L.HOLMES\*

Chairman, Department of Neurology Professor of Medicine (Neurology) and Pediatrics Dartmouth Medical School Hanover, New Hampshire, U.S.A

### Luncheon Seminar 6

SUNAO KANEKO\*

Department of Neuropsychiatry, School of medicine Hirosaki University

### Evening Seminar 1

KITAMI HAYASHI\*

Division of Neurology and Developmental Pediatrics Tokyo Women Medical University Yachiyo Medical Center

AKIKO ARAKI\*

Department of Pediatrics, Asahikawa Medical College, Hokkaido

HIRONOBU ICHIKAWA\*

Tokyo Metropolitan Umegaoka Hospital, Tokyo

MICHIKO SUGAMA\*

Oji Clinic, The Association of Remedial Teaching for People with Developmental Handicaps

### Evening Seminar 2

TATEO SUGIMOTO\*

Sugimoto's Barn Klinik (Clinic for Children)

EIJI KITAZUMI\*

National Rehabilitation Center for Disabled Children

ASAYO ISHIZAKI\*

Oji clinic, Division of Medicine, The Association of Remedial Teaching for People with Developmental Handicaps

### Evening Seminar 3

YOKO ASAKA\*<sup>1</sup>, SATOSHI TAKADA<sup>2</sup>

<sup>1</sup> Faculty of Health science, Kobe University

<sup>2</sup> Faculty of Nursing and Rehabilitation, Konan Women's University

NOBORU OHKI\*  
NoruPro Light Systems.Inc

KUMI KATO\*<sup>1</sup>, SACHIKO SHIMIZU <sup>2</sup>, YUKO OHONO <sup>2</sup>, IKUKO MOHRI <sup>1</sup>, MITSUTAKA TANIGUCHI <sup>3</sup>,  
SAYIRI MATSUMOTO <sup>4</sup>, MASAKO TANIKE <sup>1</sup>

<sup>1</sup> Molecular Research Center for Children's Mental Development, Osaka University Graduate School of  
Medicine

<sup>2</sup> Laboratory of Mathematical Health Sciences, Division of Health Sciences, Osaka University Graduate School  
of Medicine

<sup>3</sup> Sleep Medical Center, Osaka Kaisei Hospital

<sup>4</sup> Higashiosaka City public health center

MIZUE IWASAKI\*  
Research Institute of Science and Technology for Society ,Japan Science and Technology Agency

KYOKO HOSHINO\*  
Department of Pediatrics, Saitama Medical Center, Saitama Medical University

SHINICHIRO NAGAMISTU\* , TOYOJIRO MATSUIISHI  
Department of Pediatrics and Child Health Kurume University of Medicine

FUKUMIZU FUKUMIZU\* , SHUHEI IDE , TTSUO MASUYAMA , YUJI IWASAKI , MASATAKA ARIMA  
Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/Multiple Disabilities

TAKAKO JODOI\*  
Child Development of Medical, University of Kumamoto

JUNKO KAWATANI\*<sup>1</sup>, TAKAKO JODOI <sup>2</sup>, MIYUKI TAKANO <sup>2</sup>, SEIJI SHIRAISHI <sup>2</sup>, AKEMI TOMODA <sup>1</sup>,  
TERUHISA MIIKE <sup>3</sup>

<sup>1</sup> Child Development Sociology, Kumamoto University

<sup>2</sup> Child Development, Kumamoto University

<sup>3</sup> Hyogo Rehabilitation Center Rehabilitation Central Hospital

## Evening Seminar 4

TAKASHI OKADA\*  
Department of Psychiatry, Kyoto University Hospital

KAZUTAKA IKEDA\*  
Division of Psychobiology, Tokyo Institute of Psychiatry

YUKI INOUE\* , MASUMI INAGAKI  
Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology  
and Psychiatry

KAKURO AOYAGI\* , HIROMI HOSAKA , MASAO AIHARA  
Department of Pediatrics, Faculty of Medicine, University of Yamanashi

## Evening Seminar 5

RYUTARO KIRA\*  
Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University



YUI YAMAGUCHI\*

Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University

## Evening Seminar 6

ATSUO NEZU\*

Department of Child Neurology Yokohama Residential Care and Medical Centre for Developmentally Disabled Person

SUI SONE\*, KATSUHITO ARAKI

Tokyo Metropolitan Higashiyamato Medical Center for Persons with Disabilities

KURIKO SHIMONO\*

Department of Pediatrics, Osaka University Graduate School of Medicine

MIZUE IAI\*

The Institution for severe intellectual and motor disabilities, Kanagawa Children's Medical Center

## Asian Oceanian Child Neurology International Didactic Program

### Role of electromyography in diagnosis of hereditary metabolic diseases

WANG SHUANG\*

Associate Professor, Department of Pediatrics, Peking University First Hospital, China

## Public Forum : For the Healthy Development of Children's Soul

### Part1 Special Lecture

RIKA KAYAMA\*

Psychiatrist, Department of Expression Studies, College of Contemporary Psychology, Rikkyo University

### Part2 Support for Developmental Disability

MADOKA SHIOTA<sup>\*1</sup>, MAKIKO OKUYAMA<sup>2</sup>, CHIHARU<sup>3</sup>, MASAHIKO INOUE<sup>4</sup>

<sup>1</sup> Department of Pediatrics, Tottori sogo ryoiku center

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

<sup>3</sup> Japanese Association for the Fellows and interested parties of Attention-Deficit Hyperactive Disorder

<sup>4</sup> Department of Clinical Psychology, Graduate School of Medical Sciences, Tottori University

## The 4th Meeting of the Japanese Society for Children's Myasthenia Gravis

### Special Lecture

MASAHARU TAKAMORI\*

Department of Neurology, Kanazawa University School of Medicine

## acute encephalopathy 1(biomarker)

### O-001 Early CSF biomarkers for the diagnosis of acute encephalopathy. The 2nd report.

HIDEO YAMANOUCHI\*, KEIKO TSUKADA, RYOTA KURIBAYASHI, YOSHIYUKI WATABE, SEITO HISAMATSU, GEORGE IMATAKA, OSAMU ARISAKA  
Department of Pediatrics, Dokkyo Medical University School of Medicine, Tochigi

### O-002 Serum and CSF biomarker in childhood neurological disorders

TAKASHI SHIIHARA\*, MIO WATANABE  
Department of Neurology, Gunma Children's Medical Center, Shibukawa, Gunma

### O-003 CSF biomarkers in patients with AIEF

SATOSHI YOSHINARI\*<sup>1</sup>, SHIN-ICHIRO HAMANO<sup>2</sup>, MANABU TANAKA<sup>2</sup>, TOMOTAKA ORITSU<sup>1,2</sup>, MOTOYUKI MINAMITANI<sup>3</sup>, NAOYUKI TANUMA<sup>4</sup>, MASAHARU HAYASHI<sup>5</sup>, RIE MIYATA<sup>5</sup>, HIROYUKI IDA<sup>1</sup>

<sup>1</sup> Department of Pediatrics, The Jikei University School of Medicine

<sup>2</sup> Division of Neurology, Saitama Children's Medical Center, Saitama

<sup>3</sup> Department for Child Health and Human Development, Saitama Children's Medical Center, Saitama

<sup>4</sup> Department of Pediatrics, Tokyo Metropolitan Fuchu Hospital, Tokyo

<sup>5</sup> Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo

### O-004 Analysis of cytokine correlation in the cerebrospinal fluid in acute child neurological disorders

RIE MIYATA\*<sup>1</sup>, MITSUNORI SHIBATA<sup>1</sup>, NAOYUKI TANUMA<sup>2</sup>, MASAHARU HAYASHI<sup>2</sup>, JUN KOHYAMA<sup>1</sup>

<sup>1</sup> The Department of Pediatrics, Tokyo Kita Shakai Hoken Hospital, Tokyo

<sup>2</sup> The Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo

### O-005 Serum MMP-9 and TIMP-1 levels in non-herpetic acute limbic encephalitis

TAKASHI ICHIIYAMA\*<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>2</sup>, TAKESHI MATSUSHIGE<sup>1</sup>, MADOKA KAJIMOTO<sup>1</sup>, SUSUMU FURUKAWA<sup>1</sup>

<sup>1</sup> Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Ube

<sup>2</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka

### O-006 Oxidative stress markers and cytokine profiles of the CSF in patients with HHV-6 encephalopathy

NAOYUKI TANUMA\*<sup>1</sup>, RIE MIYATA<sup>2</sup>, MASAHARU HAYASHI<sup>3</sup>, FUMIYO OHNO<sup>4</sup>, AKIHISA OKUMURA<sup>5</sup>, JUN-ICHI TAKANASHI<sup>6</sup>, MASAYA KUBOTA<sup>7</sup>, HIDEKI HOSHINO<sup>7</sup>, SHIN-ICHIRO HAMANO<sup>8</sup>, SATOSHI YOSHINARI<sup>8</sup>

<sup>1</sup> Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo

<sup>2</sup> Department of Pediatrics, Tokyo Kita Shakai Hoken Hospital, Tokyo

<sup>3</sup> Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo

<sup>4</sup> Department of Pediatrics, Kawaguchi Municipal Medical Center, Saitama

<sup>5</sup> Department of Pediatrics, Juntendo University, School of Medicine, Tokyo

<sup>6</sup> Department of Pediatrics, Kameda Medical Center

<sup>7</sup> Department of Neurology, National Center for Child Health and Development

<sup>8</sup> Division of Neurology, Saitama Children's Medical Center

### O-007 CSF neurofilament in bacterial meningitis

TAKESHI MATSUSHIGE\*, TAKASHI ICHIIYAMA, MADOKA KAJIMOTO, KIYOKO TOMOCHIKA, NAOKO SUENAGA, SUSUMU FURUKAWA  
Department of pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi

## acute encephalopathy 2(clinical study)

### O-008 Clinical features of acute encephalopathy with widespread bilateral lesions on DWI

OKUMURA AKIHISA\*<sup>1</sup>, HIROYUKI KIDOKORO<sup>2</sup>, MOTOMASA SUZUKI<sup>3</sup>, TETSUO KUBOTA<sup>2</sup>, MASAKO SAITO<sup>1</sup>, TOMOYUKI NAKAZAWA<sup>1</sup>, TAKESHI TSUJI<sup>3</sup>, TORU KATO<sup>3</sup>, JUN NATSUME<sup>4</sup>, FUMIO HAYAKAWA<sup>3</sup>, TOSHIKI SHIMIZU<sup>1</sup>

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<sup>2</sup> Department of Pediatrics, Anjo Kosei Hospital, Anjo

<sup>3</sup> Department of Pediatrics, Okazaki City Hospital, Okazaki

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

**O-009 4 cases of encephalopathy showing bright tree appearance in acute stage within 2 days**

JUN-ICHI TAKANASHI\*<sup>1</sup>, HIROKO TADA<sup>1</sup>, AKIHISA OKUMURA<sup>2</sup>, FUMIO HAYAKAWA<sup>3</sup>, TETSUYA KIBE<sup>4</sup>, ATSUSHI IMAMURA<sup>5</sup>

<sup>1</sup> Department of Pediatrics, Kameda Medical Center, Kamogawa

<sup>2</sup> Department of Pediatrics, Juntendo University, Tokyo

<sup>3</sup> Department of Pediatrics, Okazaki City Hospital, Okazaki

<sup>4</sup> Department of Pediatrics, Seirei Mikatahara General Hospital

<sup>5</sup> Department of Pediatrics, Gifu Prefectural General hospital

**O-010 Lesion distribution and Clinical Feature about Bright Tree Type Acute Encephalopathy**

TAKESHI TSUJI\*<sup>1</sup>, YOSHITERU AZUMA<sup>2</sup>, SEIKO ITOMI<sup>3</sup>, AKIHISA OKUMURA<sup>4</sup>, TORU KATO<sup>1</sup>, HIROHUKI KIDOKORO<sup>5</sup>, TETSUO KUBOTA<sup>5</sup>, YOKO KONDO<sup>4</sup>, MOTOMASA SUZUKI<sup>6</sup>, JUN NATSUME<sup>2</sup>, FUMIO HAYAKAWA<sup>1</sup>, AYAKO HIRAIWA<sup>7</sup>, TATSUYA FUKASAWA<sup>2</sup>, KOICHI MARUYAMA<sup>6</sup>

<sup>1</sup> The Department of Pediatrics, Okazaki City Hospital, Okazaki

<sup>2</sup> Nagoya University

<sup>3</sup> Nagoya Memorial Hospital

<sup>4</sup> Juntendo University

<sup>5</sup> Anjo Kosei Hospital

<sup>6</sup> Aichi Prefectural Colony Central Hospital

<sup>7</sup> Nagoya Memorial Hospital

**O-011 Clinical features of acute encephalopathy with repetitive seizure**

SHINPEI ABE\*<sup>1</sup>, AKIHISA OKUMURA<sup>1,2</sup>, MASAKO SAITO<sup>1</sup>, TOMOYUKI NAKAZAWA<sup>3</sup>, TOSHIKI SHIMIZU<sup>1</sup>

<sup>1</sup> The Department of Pediatrics, Juntendo University School of Medicine, Tokyo

<sup>2</sup> The Department of Pediatrics, Urayasu Ichikawa City Hospital, Chiba

<sup>3</sup> The Department of Pediatrics, Juntendo Urayasu Hospital, Chiba

**O-012 Analysis of children suffered from encephalitis/encephalopathy with prolonged febrile seizure**

KATOU YASUKO\*<sup>1</sup>, KEIKO MIZUTA<sup>1</sup>, MICHIAKI NAGURA<sup>1</sup>, KYOKO HOSHINO<sup>1</sup>, FUMIKA YAMAGUCHI<sup>2</sup>, EIKO TAKADA<sup>1</sup>, MASANORI TAMURA<sup>1</sup>

<sup>1</sup> Department of Pediatrics, Saitama Medical Center, Saitama Medical School, Saitama

<sup>2</sup> Department of Pediatrics, Tokyo Women's Medical University

**O-013 5 cases of the HHV-6 encephalitis for the past five years**

RYUUJI KAGEYAMA\*, TOMOMI HARAI, SEIKO FUJIKI, KAZUSI MIYA, CHIAKI TANAKA, KAZUHISA HONGOU, SHINICHI YAGI, FUKIKO ICHIDA, TOSIO MIYAWAKI  
University of Toyama, Toyama

## acute encephalopathy 3 (others)

**O-014 Structural abnormalities of hippocampus in prolonged febrile seizures**

MISAKO NAIKI\*<sup>1</sup>, SETSURI YOKOI<sup>1</sup>, YOSITERU AZUMA<sup>1</sup>, TATSUYA FUKASAWA<sup>1</sup>, AYAKO HIRAIWA<sup>1</sup>, JUN NATSUME<sup>1</sup>, TAMIKO NEGORO<sup>2</sup>, KAZUYOSI WATANABE<sup>3</sup>

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<sup>3</sup> Faculty of Medical Welfare, Aichi Syukutoku University, Nagoya

**O-015 Prospective study of the frontal lobe volumes in the patients with febrile convulsive status**

HIDEAKI KANEMURA\*, YU-ICHI MAEDA, SONOKO HATA, DAI YAMASHIRO, YUSUKE GOTO, HITOSHI SHIMOYAMA, KAZUO HATAKEYAMA, KANJI SUGITA, MASAO AIHARA

Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi

**O-016 Amplitude-integrated EEG monitoring in children with acute encephalopathy with frequent seizures**

AKIHISA OKUMURA\*<sup>1</sup>, SHIMPEI ABE<sup>1</sup>, MASAKO SAITO<sup>1</sup>, TOMOYUKI NAKAZAWA<sup>2</sup>, SHIN-ICHI NIJIMA<sup>3</sup>, TOSHIKI SHINIZU<sup>1</sup>

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<sup>3</sup> Department of Pediatrics, Juntendo Nerima Hospital, Tokyo

**O-017 Acute encephalopathy with febrile convulsive status epileptics : recovery of motor function**

SATORI HIRAI\*, YOSIMI KATOU , SIN NABATAME , HIROSI ARAI

The Department of pediatric neurology, Morinomiya Hospital, Osaka

**O-018 The indication for liver transplantation in children with fulminant hepatic failure**

SACHIKO SHIMOZATO\*, TAKAYUKI MITSUHASHI , TAKAO TAKAHASHI

Department of Pediatrics, School of Medicine, Keio University, Tokyo

## imaging analysis

**O-019 Evaluation of nervous system of glutamic acid and GABA in autism by 1H-MRS**

YOSHIHIRO TOHDA\*<sup>1</sup>, KENJI MORI<sup>1</sup>, EMIKO FUJII<sup>1</sup>, MASAHITO MIYAZAKI<sup>1</sup>, TOSHIAKI HASHIMOTO<sup>2</sup>, MASAFUMI HARADA<sup>3</sup>, SHOJI KAGAMI<sup>1</sup>

<sup>1</sup> Department of Pediatrics, The University of Tokushima School of Medicine, Tokushima

<sup>2</sup> Division of Pediatrics, Tokushima Red Cross Hinomine Medical and Rehabilitation Center, Tokushima

<sup>3</sup> Department of Radiology, The University of Tokushima School of Medicine, Tokushima

**O-020 Follow-up study of regional brain blood flow in high-functioning autism**

MOTOYUKI MINAMITANI\*<sup>1</sup>, SHIN-ICHIRO HAMANO<sup>2,3</sup>, MANABU TANAKA<sup>2</sup>, KENJIRO KIKUTI<sup>2,3</sup>, TOMOTAKA ORITSU<sup>2,3</sup>, HIROYUKI IDA<sup>3</sup>

<sup>1</sup> Saitama Children's Medical Center, Saitama

<sup>2</sup> Saitama Children's Medical Center, Saitama

<sup>3</sup> Jikei University School of Medicine, Tokyo

**O-021 Neural underpinnings of developmental coordination disorder in children : An fMRI study**

MITSURU KASHIWAGI\*<sup>1</sup>, SUNAO IWAKI<sup>3</sup>, SHUHEI SUZUKI<sup>1,2</sup>

<sup>1</sup> Department of Developmental Brain Science, Osaka Medical College

<sup>2</sup> Department of Pediatrics, Osaka Medical College, Osaka

<sup>3</sup> Institute for Human Science and Biomedical Engineering, National Institute of Advanced Industrial Science and Technology (AIST), Osaka

**O-022 Quantitative diffusion tensor tractography of the motor and sensory tracts in CP children**

SHOKO YOSHIDA\*<sup>1</sup>, KATSUMI HAYAKAWA<sup>1</sup>, TOYOKO KANDA<sup>2</sup>, YURIKO YAMORI<sup>2</sup>, NAOKO YOSHIDA<sup>2</sup>, HARUYO HIROTA<sup>2</sup>

<sup>1</sup> Kyoto City Hospita

<sup>2</sup> Department of Neuropediatrics, St. Joseph Hospital for Handicapped Children

**O-023 The correlation among prognosis, EEG and MRS findings of the patients with cryptogenic West syndrome**

ATSUSHI IMAMURA\*, ASUKA IWAI , ATSUSHI TERASAWA , RYOSUKE MIURA , REIKO ITO , KOJI ORII

Department of Pediatrics, Gifu Prefectural General Medical Center

**O-024 Correlation between diffusion tensor imaging and FDG-PET findings in cryptogenic West syndrome**

TATSUYA FUKASAWA\*<sup>1</sup>, MISAKO NAIKI<sup>1</sup>, YOSHITERU AZUMA<sup>1</sup>, JUN NATSUME<sup>1</sup>, TAKETO IKUTA<sup>2</sup>, AKIHISA OKUMURA<sup>3</sup>, TAMIKO NEGORO<sup>4</sup>, KAZUYOSHI WATANABE<sup>5</sup>

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<sup>3</sup> Department of Pediatrics, Juntendo University School of Medicine, Tokyo

<sup>4</sup> Department of Human Welfare, Okazaki Women's Junior College, Okazaki

<sup>5</sup> Faculty of Medical Welfare, Aichi Syukutoku University, Nagoya

**O-025 Auditory response in sleep infants with near-infrared spectroscopy**

HIROSHI KOMETANI\*<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, YUSUKE SAEKI<sup>1</sup>, YUTAKA NONODA<sup>1</sup>, AYAKO MIYAHARA<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>, YOSHIAKI SAITOU<sup>1</sup>, KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, ATSUKO GUNJI<sup>2</sup>, IWAO KOBAYASHI<sup>3</sup>

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<sup>3</sup> Center for the Research and Support of Educational Practice, Tokyo Gakugei University, Tokyo

**O-026 Oseltamivir Phosphate Induced Alterations in ABR of Epilepsy-Prone El Mice**

YASUHIKO KAWAKAMI<sup>\*1</sup>, KENICHI SAITO<sup>2</sup>, SHINYA KOIZUMI<sup>3</sup>, KENTARO KUWABARA<sup>3</sup>,  
TAKEHISA FUJITA<sup>3</sup>, OSAMU FUJINO<sup>3</sup>, YOSHITAKA FUKUNAGA<sup>3</sup>

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Musashino, Tokyo

<sup>3</sup> Department of pediatrics, Nippon Medical School, Tokyo

## neurosurgery

**O-027 Impact of surgical treatment of juvenile patients with moyamoya disease on long term prognosis.**

TADASHI NARIAI<sup>\*</sup>, YOJI TANAKA, MAKI MUKAWA, TOSHIYA MOMOSE, CHIHIRO HOSODA,  
MOTOKI INAJI, KIKUO OHNO

Department of Neurosurgery, Tokyo Medical and Dental University, Tokyo

**O-028 The utility of NICE head injury guideline in children with head trauma**

KYOKO SAWADA<sup>\*</sup>, TAKU NAKAGAWA, KAZUNORI AOKI, YOHSUKE SAJI, AZUSA MARUYAMA,  
HIROAKI NAGASE

Pediatrics, Hyogo Prefectural Kobe Children's Hospital, Hyogo

**O-029 Cerebrovascular disorders in children**

YUKIKO NAKAMURA<sup>\*</sup>, MAKIKO SHIMAZAKI, YUMIKO KOMATSU, MAMI MIWA, FUMIO  
BESSHO

The Department of Pediatrics, Kyorin University, Tokyo

**O-030 Analysis of the process of diagnosis in children with posterior fossa tumor**

HIDEO HAMADA<sup>\*</sup>, MASANORI KURIMOTO, NAKAMASA HAYASHI, SHUNRO ENDO

Department of Neurosurgery, Faculty of Medicine, University of Toyama

**O-031 Clinical manifestations and treatment for shunt malfunction**

KATSUNORI FUJII<sup>\*</sup>, RYO TANABE, TADASHI SHIOHAMA, MAMIKO ENDO, MAIKO SAKAKIMOTO,  
, KATSUO SUGITA, YOICHI KOHNO

Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba

## peripheral nerve

**O-032 Clinical variability of childhood onset chronic inflammatory demyelinating polyradiculoneuropathy**

AYAKO HATTORI<sup>\*1</sup>, HIROFUMI KOMAKI<sup>1</sup>, TAKASHI SAITO<sup>1</sup>, AYAKO MIYAHARA<sup>1</sup>, ERI TAKESHITA<sup>1</sup>,  
MIO WATANABE<sup>2</sup>, HIROSHI SAKUMA<sup>1</sup>, YOSHIKI SAITO<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, KENJI SUGAI<sup>1</sup>,  
MASAYUKI SASAKI<sup>1</sup>

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<sup>2</sup> Gunma Children's Medical Center

**O-033 Efficacy of methylprednisolone for chronic inflammatory demyelinating polyneuropathy in childhood**

KAZUSHI ICHIKAWA<sup>\*1</sup>, YOSHITAKA OYAMA<sup>1</sup>, SAOKO TAKESHITA<sup>1</sup>, ATSUO NEZU<sup>2</sup>

<sup>1</sup> Department of Pediatrics, Yokohama City University Medical Center, Yokohama

<sup>2</sup> Yokohama Residential Care and Medical Centre for Developmentally Disabled Person, Yokohama

**O-034 Clinical analyses of 10 patients with distal axonal neuropathy with pyramidal features**

KAZUHIRO HAGINOYA<sup>\*</sup>, IKUKO SATO, SOICHIRO TANAKA, YURIKA NUMATA, AKIRA ONUMA

Department of Pediatric Neurology, Takuto Rehabilitation Center for Children, FFPH, Sendai

**O-035 Molecular analysis of demyelinating Charcot-Marie-Tooth disease in Japanese patients**

AKIKO ABE<sup>\*</sup>, KAZUKI KIJIMA, EMI SHIRAHATA, KIYOSHI HAYASAKA

Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata

## English session 1

**O-036 Analysis of Duchenne muscular dystrophy cases treatable by the molecular therapies**

YASUHIRO TAKESHIMA<sup>\*</sup>, MARIKO YAGI, YO OKIZUKA, HIROYUKI AWANO, MASAFUMI  
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Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe

- O-037 Phenotype-genotype correlation in Dystrophinopathy patients with duplication mutations**  
 MARIKO YAGI\*, HIROYUKI AWANO, YO OKIZUKA, YASUHIRO TAKESHIMA, MASAFUMI MATSUO  
 Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe
- O-038 Analysis of acid alpha-glucosidase activity in 99 patients clinically diagnosed as having LGMD**  
 TOKIKO FUKUDA\*<sup>1</sup>, TOMOYUKI ISHII<sup>1</sup>, HIDEO SUGIE<sup>1</sup>, MARIKO MOMOI<sup>1</sup>, YUKIKO HAYASHI<sup>2</sup>,  
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<sup>2</sup> Department of Neuromuscular Research National Institute of Neuroscience National Center of Neurology and Psychiatry
- O-039 The frequency of fukutinopathy in patients with idiopathic myopathy complicated with cardiomyopathy**  
 HIROSHI MATSUMOTO\*<sup>1</sup>, TERUMI MURAKAMI<sup>1</sup>, YUKIKO HAYASHI<sup>1</sup>, IKUYA NONAKA<sup>1</sup>, ICHIZO NISHINO<sup>1</sup>  
<sup>1</sup> Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Kodaira  
<sup>2</sup> Department of Pediatrics, National Defense Medical College, Tokorozawa
- O-040 Neuroimaging in patients with same fukutin gene mutations**  
 MIEKO YOSHIOKA\*<sup>1</sup>, MASAKO NAGATO<sup>1</sup>, KAZUHIRO SHIRAISHI<sup>2</sup>, TATSUYA FUJII<sup>3</sup>, HIDEO AIBA<sup>4</sup>,  
 TATSUSHI TODA<sup>5</sup>  
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<sup>4</sup> Department of Neurology, Shizuoka Children's Hospital  
<sup>5</sup> Department of Medical Genetics, Osaka University Graduate School of Medicine
- O-041 Protocol of Investigator Mediated Clinical Trial of L-arginine on MELAS**  
 YASUTOSHI KOGA\*<sup>1</sup>, KOUJYU KATAYAMA<sup>1</sup>, NATALIYA POVALKO<sup>1</sup>, NORIKO IWASHITA<sup>2</sup>,  
 HIDEFUMI NAKAMURA<sup>3</sup>, YASUO OHASHI<sup>4</sup>  
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## English session 2

- O-042 Acquired epigenetic alteration in muscle: Implication for markers for exercise training and medicine**  
 TAKEO KUBOTA\*, KAZUSHI ENDOH  
 Department of Epigenetic Medicine, University of Yamanashi, Yamanashi
- O-043 Thalamic involvement in patients with prolonged febrile seizures: A voxel-based morphometric study**  
 JUN NATSUME\*<sup>1</sup>, AYAKO SOFUE<sup>1</sup>, KOICHI MARUYAMA<sup>3</sup>, SETSURI YOKOI<sup>1</sup>, MISAKO NAIKI<sup>1</sup>,  
 TOMOHIKO NAKATA<sup>1</sup>, YOSHITERU AZUMA<sup>1</sup>, TATSUYA FUKASAWA<sup>1</sup>, AKIHISA OKUMURA<sup>4</sup>,  
 TAMIKO NEGORO<sup>1</sup>, KAZUYOSHI WATANABE<sup>1,5</sup>  
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<sup>2</sup> Department of Pediatrics, Japanese Red Cross Nagoya First Hospital  
<sup>3</sup> Department of Child Neurology, Aichi Prefectural Colony  
<sup>4</sup> Department of Pediatrics, Juntendo University  
<sup>5</sup> Faculty of Medical Welfare, Aichi Shukutoku University
- O-044 Beta-hydroxybutyrate alters GABA-transaminase activity in cultured astrocytes**  
 YUKA SUZUKI\*, MITSUNARI FUKUDA, HITOMI HINO  
 Department of Pediatrics, Graduate school of medicine, Ehime University, Toon
- O-045 Development of handedness: Correlation with motor and cognitive development at 18 month.**  
 SHIGEYUKI MATSUZAWA\*<sup>1</sup>, YUKA SHIOTANI<sup>1</sup>, AKIKO SAWADA<sup>1</sup>, SIHOKO KIMURA<sup>1</sup>, TOMONARI AWAYA<sup>1,2</sup>,  
 MASAKO OKADA<sup>1,2</sup>, KIYOTAKA TOMIWA<sup>1,2</sup>  
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<sup>2</sup> Kyoto University Graduate School of Medicine, Kyoto

**O-046 Rett syndrome;diagnosis and management**

AHMED RAOUF IBRAHIM \*

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**O-047 Withdrawal of Presentation**

### English session 3

**O-048 Effects of bisphenol A on the development of murine cortex: profile analyses of subplate neurons**

HIROSHI OGI\*, KYOKO ITOH, TAKESHI YAOI, SHINJI FUSHIKI

Department of Pathology and Applied Neurobiology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto

**O-049 Analysis of CASK corresponding to mental retardation with microcephaly and cerebellar hypoplasia**

SHIN HAYASHI\*<sup>1</sup>, NOBUHIKO OKAMOTO<sup>2</sup>, SEIJI MIZUNO<sup>3</sup>, MASAE ONO<sup>4</sup>, RIKA KOSAKI<sup>5</sup>, TORAYUKI OKUYAMA<sup>5</sup>, YASUTSUGU CHINEN<sup>6</sup>, YOSHIO MAKITA<sup>7</sup>, AKIRA HATA<sup>8</sup>, ISSEI IMOTO<sup>1</sup>, JOHJI INAZAWA<sup>1</sup>

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<sup>7</sup> Education Center, Asahikawa Medical College, Asahikawa

<sup>8</sup> Department of Public Health, Chiba University Graduate School of Medicine, Chiba

**O-050 Drug screening for Pelizaeus-Merzbacher Disease**

HITOSHI OSAKA\*<sup>1</sup>, HIROKO SHINBO<sup>1</sup>, ATSUSHI TAKAGI<sup>1</sup>, MEGUMI TSUJI<sup>1</sup>, KIYOKO SAMEJIMA<sup>1</sup>, MIZUE IAI<sup>1</sup>, KENJI KUROSAWA<sup>2</sup>, SUMIMASA YAMASHITA<sup>1</sup>

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<sup>2</sup> Division of Genetics, Kanagawa Childrens Medical Center,

<sup>3</sup> Kanagawa Cancer Center Research Institute

**O-051 Chemical chaperone therapy for GM1-gangliosidosis: effect of NOEV for 88 missense mutations**

EIJI NANBA\*<sup>1</sup>, KATSUMI HIGAKI<sup>1</sup>, YOSHIYUKI SUZUKI<sup>2</sup>

<sup>1</sup> Division of Functional Genomics, Center for Bioscience and Technology, Tottori University, Yonago

<sup>2</sup> Graduate School, International University of Health and Welfare, Otawara

**O-052 The effect of N-Octyl-  $\beta$ -vakinamine on  $\beta$ -vakinamine organs in normal mice**

ZHUO LUAN\*<sup>1</sup>, HARUAKI NINOMIYA<sup>1</sup>, KOUSAKU OHNO<sup>1</sup>, TAKATOSHI KUBO<sup>2</sup>, MASAMI IIDA<sup>2</sup>, YOSHIYUKI SUZUKI<sup>3</sup>

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<sup>3</sup> International University of Health and Welfare, Otawara, Tochigi

**O-053 CDKL5 mutations in patients with severe encephalopathy and early-onset intractable epilepsy**

JAO-SHWAN LIANG\*<sup>1</sup>, KEIKO SHIMOJIMA<sup>1</sup>, JUN NATSUME<sup>2</sup>, TATSUYA FUKASAWA<sup>2</sup>, AKIHISA OKUMURA<sup>3</sup>, KYOKO HIRASAWA<sup>4</sup>, HIROKAZU OGUNI<sup>4</sup>, MAKIKO OSAWA<sup>4</sup>, TOSHIYUKI YAMAMOTO<sup>1</sup>

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<sup>4</sup> Department of Pediatrics, Tokyo Women's Medical University

## developmental disorder 2 (pathophysiology)

- O-054 The children with Asperger disorder are slow in shifting their egocentric reference frames.**  
SUZUKI SHUHEI\*<sup>1</sup>, MITSURU KASHIWAGI<sup>1,2</sup>, TOMIKA KONDO<sup>1</sup>, SUNAO IWAKI<sup>3</sup>  
<sup>1</sup> Department of Developmental Brain Science, Osaka Medical College  
<sup>2</sup> Department of Pediatrics  
<sup>3</sup> Institute for Human Science and Biomedical Engineering, National Institute of Advanced Industrial Science and Technology (AIST)
- O-055 Examination of touch area, pressure, width of gravity during sitting of children with Autism**  
YOSHIMI FUNAHASHI\*<sup>1</sup>, MASAYUKI IMAEDA<sup>1</sup>, MICHIKO ISHIKAWA<sup>2</sup>  
<sup>1</sup> Hokubu District Care Center for Disabled Children City of Nagoya, Nagoya  
<sup>2</sup> Nagoya City University Hospital, Nagoya
- O-056 Relationship between sleep problems and behavior in patients with pervasive developmental disorder**  
FUMIE HORIUCHI\*<sup>1</sup>, YASUNORI OKA<sup>2</sup>  
<sup>1</sup> Department of Neuropsychiatry Ehime University Graduate School of Medicine, Toon  
<sup>2</sup> Japan Somnology Center, Neuropsychiatric Reserch Institute
- O-057 Sleep disordered breathing might be a risk of ADHD: sleep analysis by Cyclic Alternating Pattern**  
KUMI KATO\*<sup>1</sup>, IKUKO MOHRI<sup>1</sup>, MASAYA TACHIBANA<sup>3</sup>, KURIKO SHIMONO<sup>3</sup>, TAKESHI OKINAGA<sup>3</sup>, KEIICHI OZONO<sup>3</sup>, MASAKO TANIIKE<sup>1</sup>  
<sup>1</sup> Molecular Research Center for Children's Mental Development, Osaka University Graduate School of Medicine, Osaka  
<sup>2</sup> Sleep Medical Center, Osaka Kaisei Hospital, Osaka  
<sup>3</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka
- O-058 VEP to sinusoidal grating stimuli at low spatial frequency might reflect magnocellular function**  
HIROKO YAMAZAKI\*<sup>1</sup>, MASUMI INAGAKI<sup>1</sup>, YOUSUKE KITA<sup>1,3,4</sup>, KIYOMI YATABE<sup>1</sup>, ATSUKO GUNJI<sup>1</sup>, MAKIKO KAGA<sup>1</sup>  
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<sup>4</sup> Research Fellow of the Japan Society for the Promotion of Science, Tokyo

## developmental disorder 3 (drug treatment)

- O-059 Improvement of child's self-esteem and coordination with school at time to start methylphenidate**  
YUKO HAYASHI\*  
Faculty of Health and Welfare, Prefectural University of Hiroshima, Mihara
- O-060 Efficacy and side effect of OROS-Methylphenidate in 75 cases of children with AD/HD**  
YU ISHIDA\*, TASUKU MIYAJIMA, SHINICHIRO MORICHI, YUSUKE SUGANAMI, SHINGO OANA, GAKU YAMANAKA, AKINORI HOSHIKA  
The Department of Pediatrics, Tokyo Medical University, Tokyo
- O-061 A comparative analysis of WISC-III to children with AD/HD who are treated with MPH-OROS**  
SHINICHIRO MORICHI\*, TASUKU MIYAJIMA, YUU ISHIDA, YUUSUKE SUGANAMI, SHINGO OANA, GAKU YAMANAKA, AKINORI HOSHIKA  
Department of Pediatrics, Tokyo medical university, Tokyo
- O-062 21 cases of adult or carryover ADHD or PDD associated with ADHD who were forced to cease MPH**  
MICHIKO SUGAMA\*, ASAYO ISHIZAKI  
Oji Clinic; Division of Medicine The Association of Remedial Teaching for People with Developmental Handicaps, Tokyo
- O-063 The Effect of Drug Therapy on Children with Developmental Disorders**  
KAZUNORI MOTOYAMA\*, TAMAO NAGAOKA, MITSUHIRO MATSUO, TETSUO MATSUZAKA  
Nagasaki Prefectural Center for Handicapped Children, Nagasaki
- O-064 Risperidone therapy in behavior disorder with epilepsy**  
NOZOMI ODA\*, TOMOKO MIYAJIMA, HIDEKI SHIMOMURA, NOBUSUKE KIMURA, TOMOHIRO KUMADA, TATSUYA FUJII  
Department of pediatrics, shiga medical center for children



**O-065 A characteristic of the epilepsy to merge for an autism spectrum disorder**

TOSHIYUKI MAEDA<sup>\*1</sup>, MUNEAKI MATUO<sup>1</sup>, KAZUYA SASAKI<sup>2</sup>, KIYOHISA ISHII<sup>3</sup>

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<sup>3</sup> Saga Handicapped Children's Hospital, Saga

## developmental disorder 4 (learning disorder)

**O-066 Reading skill of second-grade children in an elementary public school**

TATSUYA OGINO<sup>\*1</sup>, AKIHITO TAKEUCHI<sup>2</sup>, TERUKO MOROOKA<sup>2</sup>, MAKIO OKA<sup>3</sup>, SATOSHI SANADA<sup>4</sup>, YOKO OHTSUKA<sup>2</sup>

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<sup>4</sup> Division of Special Education, Faculty of Education, Okayama University, Okayama

**O-067 Verbal working memory/response inhibition performance, and reading ability in healthy children.**

TERUKO MOROOKA<sup>\*1</sup>, AKIHITO TAKEUCHI<sup>1</sup>, MAKIO OKA<sup>1</sup>, YOKO OHTSUKA<sup>1</sup>, TATHUYA OGINO<sup>2</sup>

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<sup>2</sup> Department of Children Studies, Faculty of Children Studies, Chugokugakuen University

**O-068 Clinical signs and hiragana reading abilities of children with reading and writing difficulties**

YOSUKE KITA<sup>\*1</sup>, MASUMI INAGAKI<sup>1</sup>, KIYOMI YATABE<sup>1</sup>, TOMOKA KOBAYASHI<sup>1,4</sup>, ATSUKO GUNJI<sup>1</sup>, MAKIKO KAGA<sup>1</sup>

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<sup>4</sup> Department of Pediatrics, Social Insurance Central General Hospital, Tokyo

**O-069 Effects of Rapid Naming on Single Hiragana Reading -Comparison between Sequential and Separate Tests**

EIJI WAKAMIYA<sup>\*1</sup>, TOMOHITO OKUMURA<sup>2</sup>, MEKUMI MIZUTA<sup>2</sup>, NAOKO KURIMOTO<sup>2</sup>, KEIKO TANAKA<sup>3</sup>, HIROSHI TAMAI<sup>4</sup>

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<sup>2</sup> LD center, Osaka Medical College

<sup>3</sup> Pediatric Department, Seikeikai Hospital

<sup>4</sup> Pediatric Department, Osaka Medical College

**O-070 The estimating of rapid automatized naming in Japanese school children.**

MASATO KANEKO<sup>\*1</sup>, AKIRA UNO<sup>2,4</sup>, NORIKO HARUHARA<sup>3,4</sup>

<sup>1</sup> Faculty of Medical Science for Health, Department of Speech-Language Pathology & Audiology, Teikyo-Heisei University, Tokyo

<sup>2</sup> Tsukuba University

<sup>3</sup> Mejiro University

<sup>4</sup> LD/Dyslexia Center, Chiba

**O-071 A study of reading disorders comorbid with PDD or AD/HD**

MAKIO OKA<sup>\*1</sup>, TATSUYA OGINO<sup>2</sup>, AKIHITO TAKEUCHI<sup>1</sup>, TERUKO MOROOKA<sup>1</sup>, YOKO OHTSUKA<sup>1</sup>

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<sup>2</sup> Department of Children Studies, Faculty of Children Studies, Chugokugakuen University

## developmental disorder 5 (screening)

**O-072 The infants period sign of the developmental disability and a viewpoint of the early detection**

KEIKO MAEDA<sup>\*1</sup>, MEGUMI HOSINA<sup>1</sup>, SACHIYO HAYAKAWA<sup>1</sup>

<sup>1</sup> Shizuoka Iryou Fukusi Center, Shizuoka

<sup>2</sup> Shizuokasi Hattasu Shougaisya Sien Center, Shizuoka

- O-073 The role of a 5-year-old child medical check for the early detection of developmental disorders**  
 HIROAKI KAKINUMA<sup>\*1</sup>, HITOSHI SATO<sup>2</sup>  
<sup>1</sup> Department of Nursing, Kanazawa Medical University  
<sup>2</sup> Department of Pediatrics, Kanazawa medical University
- O-074 Preliminary pre-school check-up for mild developmental disorders**  
 TAMIKO NEGORO<sup>\*1</sup>, MICHIKO MATSUBARA<sup>2</sup>  
<sup>1</sup> Department of Human Welfare, Okazaki Women's Junior College  
<sup>2</sup> The First Sawarabi Kindergarden, Okazaki Women's Junior College
- O-075 Early detection of children with developmental disorders by 5 year-old medical checkup**  
 MASAHITO MIYAZAKI<sup>\*1</sup>, SHOJI KAGAMI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Miyoshi Medical Clinic, Higashikagawa  
<sup>2</sup> Department of Pediatrics, The Institute of Health Bioscience, The University of Tokushima Graduate School, Tokushima
- O-076 History of the special support class's students at health checkups**  
 SHIMA YAMAGUCHI<sup>\*</sup>, SATOSHI TAKADA  
 The Graduate School of Health Science, University of Kobe, Kobe
- O-077 Change of Consultation system for Infants with Developmental Disorders in Fukui: The 1st report**  
 KEIKO TAKEUCHI<sup>\*1</sup>, AKEMI TSUDA<sup>2</sup>, TSUNEHISA SAKAJIRI<sup>2</sup>  
<sup>1</sup> Faculty of Education and Regional Studies, University of Fukui, Fukui  
<sup>2</sup> Fukui Prefectural Rehabilitation Center For Children With Disabilities, Fukui
- O-078 Change of Consultation System for Infants with Developmental Disorders in Fukui -The 2nd report**  
 AKEMI TSUDA<sup>\*1</sup>, TSUNEHISA SAKAJIRI<sup>1</sup>, KEIKO TAKEUCHI<sup>2</sup>  
<sup>1</sup> Fukui Prefectural Rehabilitation Center For Children With Disabilities, Fukui  
<sup>2</sup> Faculty of Education and Regional Studies, University of Fukui, Fukui

## developmental disorder 5 (management)

- O-079 The effects of SST for AD/HD boys and the mothers -The change in the mother's upbringing attitude**  
 MEGUMI TOMITA<sup>\*1</sup>, YOSUKE ARAMAKI<sup>1,2</sup>, MAKI MIYAJI<sup>2</sup>, IKUKO SHIKATA<sup>2</sup>, AKIHIRO YASUHARA<sup>1,2</sup>  
<sup>1</sup> Yasuhara Children's Clinic, Osaka  
<sup>2</sup> YCC Child Institute for Educational Research
- O-080 A study on the effects of parents training in mothers who have AD/HD boys**  
 YOSUKE ARAMAKI<sup>\*1</sup>, AKIHIRO YASUHARA<sup>1,2</sup>  
<sup>1</sup> Yasuhara Children's Clinic, Osaka  
<sup>2</sup> YCC Child Institute for Educational Research, Osaka
- O-081 The application of parent training in class management of elementary / junior high school**  
 HIROYUKI YOKOYAMA<sup>\*1</sup>, KEISUKE WAKUSAWA<sup>2</sup>, MIEKO HIROSE<sup>2</sup>, CHIEKO NARA<sup>2</sup>  
<sup>1</sup> School of Nursing, Yamagata University Faculty of Medicine, Yamagata  
<sup>2</sup> Tohoku University Hospital
- O-082 Effect of Modified Parent Training for Mothers of Children with Pervasive Developmental Disorder**  
 HIROKO OKUNO<sup>\*1</sup>, IKUKO MOURI<sup>2</sup>, MASAKO TANIKE<sup>2</sup>, SAEKO SAKAI<sup>1</sup>, TOMOKA YAMAMOTO<sup>2</sup>, ARIKA YOSHIKAZAKI<sup>2</sup>, KUMI KATO<sup>2</sup>, MASAYA TACHIBANA<sup>2</sup>, EMI MURATA<sup>2</sup>, AIKA TATUMI<sup>2</sup>, HIDEMI IWASAKA<sup>3</sup>, TOSISABUROU NAGAI<sup>1,2</sup>  
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<sup>3</sup> Nara University of Education Special Support Education Research Center, Nara
- O-083 Intervention in the difficulties in writing kanji in children with Williams syndrome**  
 MIHO NAKAMURA<sup>\*1</sup>, SEIJI MIZUNO<sup>2</sup>, TOSHIYUKI KUMAGAI<sup>3</sup>  
<sup>1</sup> Institute for Developmental Research, Aichi Human Service Center, Kasugai, Aichi  
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<sup>3</sup> Kobato Gakuenn, Aichi Human Service Center, Kasugai, Aichi

## developmental disorder 7 (others)

- O-084 Executive functions and ADHD- and PDD-related features studied by short-term and working memories**  
AKIHITO TAKEUCHI\*<sup>1</sup>, TERUKO MOROOKA<sup>1</sup>, MAKIO OKA<sup>1</sup>, TATSUYA OGINO<sup>2</sup>, YOKO OHTSUKA<sup>1</sup>  
<sup>1</sup> Department of Child Neurology, Okayama University, Okayama  
<sup>2</sup> Department of children studies, Faculty of children studies, Chugokugakuen University
- O-085 Executive functions and ADHD- and PDD-related features studied by selective attention and inhibition**  
AKIHITO TAKEUCHI\*<sup>1</sup>, TERUKO MOROOKA<sup>1</sup>, MAKIO OKA<sup>1</sup>, TATSUYA OGINO<sup>2</sup>, YOKO OHTSUKA<sup>1</sup>  
<sup>1</sup> Department of Child Neurology, Okayama University, Okayama  
<sup>2</sup> Department of children studies, Faculty of children studies, Chugokugakuen University, Okayama
- O-086 Problem of children with reading disability in school life: supporting needs and depression scale**  
TAKASHI HAYASHI\*<sup>1</sup>, KUMIKO KIDO<sup>1</sup>, REIKO YASUMURA<sup>2</sup>  
<sup>1</sup> Department of Nursing, Yamaguchi Prefecture University Faculty of Nursing and Nutrition, Yamaguchi  
<sup>2</sup> Yamaguchi Prefectural University Graduate school of Health and Welfare, Yamaguchi
- O-087 Reading skill of Japanese children and categorical perception**  
TATSUYA OGINO\*<sup>1</sup>, AKIHITO TAKEUCHI<sup>2</sup>, TERUKO MOROOKA<sup>2</sup>, MAKIO OKA<sup>3</sup>, SATOSHI SANADA<sup>4</sup>, YOKO OHTSUKA<sup>2</sup>  
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<sup>2</sup> Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama  
<sup>3</sup> Department of Child Neurology, Okayama University Hospital, Okayama  
<sup>4</sup> Division of Special Education, Faculty of Education, Okayama University, Okayama
- O-088 The developmental changes of emotional responses associated with reinforcement learning process.**  
HIROMI HOSAKA\*<sup>1</sup>, KAKUROU AOYAGI<sup>1</sup>, HIDEAKI KANEMURA<sup>1</sup>, YOSHIMI KAGA<sup>1</sup>, HITOSHI SHIMOYAMA<sup>1</sup>, DAI YAMASHIRO<sup>1</sup>, YUUSUKE GOTOU<sup>1</sup>, TOMOKO TANDOU<sup>1</sup>, KOUSUKE NAKAMURA<sup>1</sup>, KANJI SUGITA<sup>1</sup>, MASAO AIHARA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Chuo, Yamanashi

## congenital anomaly · chromosomal abnormality 4

- O-089 Assessment of behavioral abnormality and regional gray matter volume in Prader-Willi syndrome**  
KAEKO OGURA\*<sup>1</sup>, TOSHIKATSU FUJII<sup>2</sup>, NOBUHITO ABE<sup>2</sup>, YOSHIYUKI HOSOKAI<sup>2</sup>, MAYUMI SHINOHARA<sup>2</sup>, ETSURO MORI<sup>2</sup>  
<sup>1</sup> Information Center for Persons with Developmental Disabilities, Research Institute, National Rehabilitation Center for Persons with Disabilities, Tokorozawa  
<sup>2</sup> Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University Graduate School of Medicine, Sendai
- O-090 The language abilities in individuals with Williams syndrome: Evidence from developmental tests**  
KOSUKE ASADA\*<sup>1</sup>, MASAKO OKADA<sup>3</sup>, SHIGEKAZU SUZUKI<sup>3</sup>, SHIN OKAZAKI<sup>3</sup>, SHOJI ITAKURA<sup>1</sup>, KIYOTAKA TOMIWA<sup>3,4</sup>  
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- O-091 Clinical Manifestation of MECP2 Duplication Syndrome**  
KEIKO YANAGIHARA\*<sup>1</sup>, NOBUHIKO OKAMOTO<sup>2</sup>, KEITARO YAMADA<sup>1</sup>, YUKIKO MOGAMI<sup>1</sup>, YASUHISA TORIBE<sup>1</sup>, TOSHIYUKI MANO<sup>1</sup>, YASUHIRO SUZUKI<sup>1</sup>, EIJI NAKAGAWA<sup>3</sup>, YU-ICHI GOTO<sup>4</sup>, SHO-ZO HONDA<sup>5</sup>, JOHJI INAZAWA<sup>5</sup>  
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**O-092 The growth curve of the patients with Wolf-Hirschhorn syndrome**

KEIKO SHIMOJIMA\*, TOSHIYUKI YAMAMOTO

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**O-093 Hydroxyoctadecadienoic acid is potential biomarker as behavioral deficit in Down syndrome model mice**

MOTOTADA SHICHIRI\*<sup>1</sup>, YASUKAZU YOSHIDA<sup>2</sup>, ETSUO NIKI<sup>2</sup>, HIROSHI TAMAI<sup>1</sup>

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## genetics 1

**O-094 CASK abnormalities with microcephaly and hypoplasia of the brainstem and cerebellum**

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<sup>4</sup> Education Center, Asahikawa Medical College, Asahikawa

**O-095 A screening of gene related to neuronal polarity or synaptic vesicle by a novel gene trap system.**

KAZUHIRO MURAMATSU\*<sup>1</sup>, NORIKO SAWAURA<sup>1</sup>, TOMOMI OGATA<sup>1</sup>, HIROKAZU ARAKAWA<sup>1</sup>

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**O-096 Rimmed vacuoles may be caused by ER stress-triggered autophagy in Marinesco-Sjogren syndrome.**

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Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo

**O-097 SLC9A6 mutation causes X-linked mental retardation which shows Angelman syndrome-like phenotype.**

YUMI TAKAHASHI\*<sup>1</sup>, KAYOKO SAITOH<sup>2</sup>, TOMOSHIRO ITOH<sup>1</sup>, KAZUYORI YAGYU<sup>1</sup>, NAOKO ASAHINA<sup>1</sup>, HIDEAKI SHIRAIISHI<sup>1</sup>, SHINJI SAITOH<sup>1</sup>

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**O-098 Analysis of transgenic mice of Angelman syndrome gene, Ube3a**

TATSUYA KISHINO\*

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**O-099 PD1 as a common susceptibility gene of subacute sclerosing panencephalitis**

YOSHITO ISHIZAKI\*, NAOKO KIMURA, RYUTARO KIRA, HIROYUKI TORISU, MASAFUMI SANEFUJI, TOSHIRO HARA

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## genetics 2

**O-100 Genotype-phenotype correlations in Pelizaeus-Merzbacher disease patients with PLP1 duplications**

KEIKO SHIMOJIMA\*<sup>1</sup>, TAKEHIKO INOUE<sup>2</sup>, AKIKO TAKESHITA<sup>3</sup>, KAYOKO SAITO<sup>4</sup>, MAKIKO OSAWA<sup>3</sup>, TOSHIYUKI YAMAMOTO<sup>1</sup>

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**O-101 Linkage study for molecular analysis of moyamoya disease**

TOSHIYUKI YAMAMOTO\*<sup>1</sup>, KEIKO SHIMOJIMA<sup>1</sup>, MITUHIRO KATO<sup>2</sup>, JUNICHI TAKANASHI<sup>3</sup>,  
TAKASHI HAYASHI<sup>4</sup>, YOSHIHIRO MAEGAKI<sup>5</sup>, HIDENORI SUGANO<sup>6</sup>

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**O-102 Relationship between genotype of 5-HTTLPR and clinical behavior phenotype in autism**

YOKO SUGIE\*<sup>1</sup>, JUNKO OSAWA<sup>1</sup>, TOKIKO FUKUDA<sup>2</sup>, HIDEO SUGIE<sup>2</sup>, TAKEHIKO OHZEKI<sup>1</sup>

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**O-103 Genetic analysis of Van der Knaap disease**

TOSHIYUKI YAMAMOTO\*<sup>1</sup>, KEIKO SHIMOJIMA<sup>1</sup>, AI HOSHINO<sup>2</sup>, NAHO MIWA<sup>3</sup>, MASASHI MORIMOTO<sup>4</sup>,  
HIDETO YOSHIKAWA<sup>5</sup>, JUN NATHUME<sup>6</sup>, ERI TAKESHITA<sup>7</sup>, NOZOMI SANO<sup>8</sup>, KENJI WATANABE<sup>9</sup>,  
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**O-104 The detection of the TSC2/PKD1 contiguous gene syndrome using MLPA**

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<sup>2</sup> Kameda Medical Center, Chiba

**O-105 Analysis of SMN1 copy number using real-time PCR and detection of subtle mutation in SMN1 gene.**

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<sup>3</sup> Department of Anatomy, Sapporo Medical University

**O-106 Prenatal diagnosis of brain malformations with regard to pathology and genetics**

KYOKO ITOH\*<sup>1</sup>, MAMI YAMASAKI<sup>2</sup>, RITSUKO POOH<sup>3</sup>, SHINJI FUSHIKI<sup>1</sup>

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**neonate**

**O-107 Background EEG activities in the recovery phase of neonatal hypoxic-ischemic encephalopathy**

KOICHI MARUYAMA\*<sup>1</sup>, MOTOMASA SUZUKI<sup>1</sup>, AKIHISA OKUMURA<sup>2</sup>, FUMIO HAYAKAWA<sup>3</sup>,  
KAZUYOSHI WATANABE<sup>4</sup>

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- O-108 Neonatal EEG: The comparison between conventional EEG and amplitude integrated EEG**  
 KYOKO HIRASAWA<sup>\*1</sup>, FUMIKA YAMAGUCHI<sup>1</sup>, MASAKO ITO<sup>2</sup>, SATOSHI KUSUDA<sup>2</sup>, MAKIKO OSAWA<sup>1</sup>  
<sup>1</sup> Dept of Paediatrics Tokyo Women's Medical University, Tokyo  
<sup>2</sup> NICU Tokyo Women's Medical University, Tokyo
- O-109 Relationship between absence of Sleep-Wake Cycling on aEEG and the outcome in preterm infants**  
 HIROYUKI KIDOKORO<sup>\*1</sup>, TETSUO KUBOTA<sup>1</sup>, TOSHIHIKO SUZUKI<sup>1</sup>, HIDEYUKI OHE<sup>1</sup>, AKIHISA OKUMURA<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Anjo Kosei Hospital  
<sup>2</sup> Department of Pediatrics, Juntendo University School of medicine
- O-110 Neurological outcomes of premature infants who develop late-onset circulatory dysfunction**  
 NOBUTO MITSUFUJI<sup>\*</sup>, MASAHARU MOROTO, MINAKO KIHARA  
 Department of Neonatology, Kyoto First Red Cross Hospital, Kyoto
- O-111 Prediction of West syndrome of the infants with HIE by neonatal EEG before discharge from NICU**  
 TORU KATO<sup>\*1</sup>, TAKESHI TUJI<sup>1</sup>, FUMIO HAYAKAWA<sup>1</sup>, TOMOYA TAKEUCHI<sup>1</sup>, HIROYUKI KIDOKORO<sup>2</sup>, TETSUO KUBOTA<sup>2</sup>, MOTOMASA SUZUKI<sup>3</sup>, KOICHI MARUYAMA<sup>3</sup>, JUN NATSUME<sup>4</sup>, AKIHISA OKUMURA<sup>5</sup>, KAZUYOSHI WATANABE<sup>6</sup>  
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<sup>6</sup> Aichi Shukutoku University, Aichi

## cerebral palsy 1

- O-112 Simple evaluation of the effect of botulinum toxin for spastic legs of childhood cerebral palsy**  
 ATSUO NEZU<sup>\*</sup>, HARUHIKO AOYAMA, HIROKO IWAMOTO, KUMIKO KARASAWA, KAORI KANEKO, YURI CHIKUMARU, MAKIKO KUROSAWA, TAKIKO MATSUO  
 Department of Neurology, Yokohama Residential Care and Medical Centre, Yokohama
- O-113 Electric muscle stimulation for cerebral palsy**  
 ARITO YOZU<sup>\*</sup>  
 Department of Rehabilitation Medicine, Graduate School of Medicine, The University of Tokyo
- O-114 The study of the death of the children and persons with severe motor and intellectual disabilities.**  
 KUNIAKI FUKUDA<sup>\*1</sup>, TOMOKO KIRINO<sup>2</sup>, YUMI FUJIWARA<sup>2</sup>, SHIGEHIRO NAGAI<sup>2</sup>, SHOICHI ENDO<sup>1</sup>, YOSHINOBU NAKAGAWA<sup>3</sup>  
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<sup>2</sup> The Department of Pediatrics, Kagawa National Children's Hospital, Zentsuji  
<sup>3</sup> The Department of Neurosurgery, Kagawa National Children's Hospital, Zentsuji
- O-115 Cerebral palsy in survivors of Extremely low birth weight infants in our center**  
 RITSUKO TAKAHASHI<sup>\*1</sup>, HIROO CHIBA<sup>1</sup>, NUMATA YIRIKA<sup>3</sup>, KZUHIRO HAGINOYA<sup>3</sup>, AKIRA ONUMA<sup>3</sup>, TAKESHI ITO<sup>2</sup>  
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<sup>3</sup> Takuto Rehabilitation Center for Children
- O-116 Response to pleasant or unpleasant odors in severely-disabled children measured by NIRS.**  
 YASUKO KOBAYASHI<sup>\*1</sup>, KIYOSHI OMURA<sup>1</sup>, TOSHIHIKO KIKUCHI<sup>1</sup>, TAKESHI YASHIMA<sup>1</sup>, HISAKI OZAKI<sup>2</sup>, SHIGERU TSUCHIYA<sup>3</sup>  
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<sup>3</sup> Department of Pediatrics, Tohoku University School of Medicine, Sendai

**O-117 Bone quantitative ultrasound for the assesment of osteopenia in handycapped children and adlescence**  
WATANABE SEIJI\*<sup>1</sup>, YUKARI ENDO<sup>1</sup>, YOSHINORI OKUMURA<sup>1</sup>, KEIKO HIRANO<sup>1</sup>, HIDEO AIBA<sup>1</sup>,  
MISAKI TAJIMA<sup>2</sup>, NAHO YAMAGISHI<sup>2</sup>, EMI INAKAZU<sup>2</sup>, MASAYUKI YANO<sup>3</sup>

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<sup>3</sup> The Department of Radilogy, Shizuoka Children's Hospital, Shizuoka

**O-118 Serum Procalcitonin Level in Pyretic Patients with Severe Motor and Intellectual Disabilities**  
KOICHI AIZAKI\*, HIROSHI SAKUMA, CHIZURU IKEDA, TOMOKO MIZUNO, AYAKO MIYAHARA,  
HIRONOBU KOMAKI, YOSHIAKI SAITO, EIJI NAKAGAWA, KENJI SUGAI, MASAYUKI SASAKI  
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## support system of developmental delay

**O-119 Study of incidence and it's factorial analysis of developmental disorders**  
KAZUO HATAKEYAMA\*<sup>1</sup>, KAKUROU AOYAGI<sup>1</sup>, TOMOKO TANDOU<sup>1</sup>, HIDEAKI KANEMURA<sup>2</sup>,  
KANJI SUGITA<sup>2</sup>, MASAO AIHARA<sup>2</sup>

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**O-120 Development of achievement test of language and arithmetic for children with learning difficulty**  
HIDEO NAGAO\*  
Department of Medicine for Special Support, Faculty of Education, Ehime University, Matsuyama

**O-121 The amount paid in medicine and education for children having developmental disabilities**  
TOSHIHIRO HORIGUCHI\*<sup>1</sup>, MANAMI KODAKA<sup>2</sup>, AKIRA UNO<sup>3</sup>, NORIKO HARUHARA<sup>4</sup>,  
MASATSUGU TSUJII<sup>5,7</sup>, YASUO TANAKA<sup>6,7</sup>, AYUMI SEKI<sup>8</sup>  
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**O-122 The investigation of the role of pediatric neurological treatment in special support education**  
JYUNICHI FURUSHO\*<sup>1</sup>, TETUJI KUBAGAWA<sup>2</sup>, KUMIKO MATSUZAKI<sup>3</sup>, YOSHIKO NEMOTO<sup>3</sup>, MIE  
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**O-123 Management of thestudents with convulsive attacks in the usual school**  
YUKI MARUYAMA\*, SATOSHI TAKADA  
Department of Community Health Sciences, Graduate School of Health Sciences, Kobe University

**O-124 Prognosis of people with intellectual disabilities: the importance of nursing and education**  
KAZUYO SAITO\*, HIDETSUGU NOZAKI  
Juai Hospital for Developmental Disabilities

## development and others

**O-125 The survey of foreign children with developmental disabilities in Toyota city**  
KIYOKUNI MIURA\*<sup>1</sup>, OSAMU TAKAHASHI<sup>2</sup>  
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**O-126 Joint attention and language development in high-risk infants**

YASUSHI FUJII\*<sup>1</sup>, KAORI AMAKATA<sup>2</sup>, KAORI OGITA<sup>2</sup>, TOSHIYUKI HIKITA<sup>2</sup>, SONO KANEKO<sup>2</sup>,  
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**O-127 The relation between qualitative assessment of spontaneous movements at 3 to 5 months and outcome**

MARIKO YUGE\*<sup>1</sup>, HIROYO HIROTA<sup>3</sup>, NAHOKO YOSHIDA<sup>3</sup>, TOYOKO KANDA<sup>3</sup>, YURIKO YAMORI<sup>3</sup>,  
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**O-128 Development of nocturnal sleep behaviors among Very low birth infant**

YOKO ASAKA\*<sup>1</sup>, SATOSHI TAKADA<sup>1</sup>

<sup>1</sup> Kobe University Graduate School of Health Sciences

<sup>2</sup> Konan Women's University

**O-129 A study for development of sociability and environment factors in JCS study**

TATSUYA KOEDA\*<sup>1</sup>, AYUMI SEKI<sup>1,2</sup>, ARIKO TAKEUCHI<sup>1,2</sup>

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**O-130 Relationship between physical growth and motor development in infancy**

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**O-131 Prodrome symptom and prognosis of Childhood-onset Schizophrenia**

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## infectious and autoimmune disease 3

**O-132 Genetic Susceptibility to ADEM in Japanese: Analysis of MS susceptible genes**

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YOSHIHIRO MAEGAKI<sup>5,10</sup>, MASARU TATSUNO<sup>6,10</sup>, KUNIAKI IYODA<sup>7,10</sup>, SHINICHI HIRABAYASHI<sup>8,10</sup>,  
KEIKO NOMURA<sup>9,10</sup>, YUKITOSHI TAKAHASHI<sup>10</sup>, TOSHIYUKI HIKITA<sup>10</sup>, TAKASHI ICHIYAMA<sup>10</sup>, JUN  
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**O-133 Sevens Cases of Acute Disseminated Encephalomyelitis**

NOBUYOSHI SUGIYAMA\*, MARIKO IKEGAMI, JYUN-ICHI YOKOYAMA, YOSHIHIRO MIYASHITA,  
SHIN-ICHI MATSUDA

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- O-134 The 16 cases with acute encephalitis, encephalopathy, myelitis, ADEM and optic neuropathy.**  
 HIDEHIKO KOYAMA<sup>\*1</sup>, MAKOTO NABETANI<sup>1</sup>, MIHO TATEISHI<sup>1</sup>, HIROSHI WADA<sup>1</sup>, MASAHISA FUNATO<sup>1</sup>, ICHIRO KUKI<sup>2</sup>, SHIN OKAZAKI<sup>2</sup>, HISASHI KAWAWAKI<sup>2</sup>  
<sup>1</sup> Yodogawa Christian Hospital, Osaka  
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- O-135 The long-term clinical course of pediatric neuromyelitis optica with aquaporin-4 autoantibody**  
 YUKIKO HIRANO<sup>\*</sup>, MAKOTO FUNATSUKA, KAYANO KODAIRA, AKIKO TAKESHITA, TOMOHIRO NAKAYAMA, YUI OTANI, MAKIKO OSAWA  
 Department of Pediatrics, Tokyo Women's Medical University, Tokyo
- O-136 Intravenous immunoglobulin treatment in multiple sclerosis.**  
 MARIKO FUJIMATSU<sup>\*</sup>, TAKEHISA FUJITA  
 Department of Pediatrics, Musashikosugi Hospital, Nippon Medical School, Kanagawa
- O-137 123I-Iomazenil SPECT is useful in assessment of encephalitis**  
 NORIMICHI HIGURASHI<sup>\*1</sup>, SHIN-ICHIRO HAMANO<sup>2</sup>, KENJIRO KIKUCHI<sup>2,3</sup>, SATOSHI YOSHINARI<sup>3</sup>, MANABU TANAKA<sup>2</sup>, MOTOYUKI MINAMITANI<sup>4</sup>, HIROYUKI IDA<sup>3</sup>  
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<sup>2</sup> Division of Neurology, Saitama Children's Medical Center, Saitama  
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<sup>4</sup> Division of Child Health and Human Development, Saitama Children's Medical Center, Saitama

## infectious and autoimmune disease 4

- O-138 Tourette's syndrome following streptococcal infection**  
 KAZUHISA HONGOU<sup>\*</sup>, TAKASI KURAMOTO, YASUKO FUJIKI, TOMOMI HARAI, KAZUSHI MIYA, TAKASHI KAGEYAMA, TOSHIO MIYAWAKI  
 The Department of Medicine, University of Toyama, Toyama
- O-139 Immunological analysis in a case of poststreptococcal encephalitis**  
 YASUO HACHIYA<sup>\*1</sup>, MASAHARU HAYASHI<sup>2</sup>, NAOYUKI TANUMA<sup>3</sup>, KAZUHISA HONGO<sup>4</sup>, AI HOSHINO<sup>1</sup>, YUKIKO HANAFUSA<sup>1</sup>, SATOKO KUMADA<sup>1</sup>, EIJI KURIHARA<sup>1</sup>  
<sup>1</sup> The Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo  
<sup>2</sup> The Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo  
<sup>3</sup> The Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo  
<sup>4</sup> The Department of Pediatrics, Toyama University, Toyama
- O-140 Clinical courses of two cases of opusoclonus-myoclonus syndrome associated with neuroblastoma**  
 NOBUTSUNE ISHIKAWA<sup>\*</sup>  
 Department of Pediatrics, Hiroshima University, Hiroshima
- O-141 Involvement of the thalamocortical pathway in Tourette syndrome (TS) -Premovement gating of SEPs**  
 KAZUE KIMURA<sup>\*</sup>, YOSHIKO NOMURA, YURI NAGAO, KEI HACHIMORI, MASAYA SEGAWA  
 Segawa Neurological Clinic for Children, Tokyo
- O-142 Autoantibodies against GluR epsilon2 in non-herpetic acute limbic encephalitis in children**  
 YUKITOSHI TAKAHASHI<sup>\*1</sup>, YUKO KUBOTA<sup>1</sup>, JUN MINE<sup>1</sup>, SHIGEKO NISHIMURA<sup>1</sup>, HISANO TSUNOGAE<sup>1</sup>, TATEKI FUJIWARA<sup>1</sup>  
<sup>1</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka  
<sup>2</sup> Department of Pediatrics, Gifu University School of Medicine, Gifu

## epilepsy · seizure 5 (test)

- O-143 Evaluation of presurgical examinations based on the surgical outcomes in partial epilepsies**  
 TAKAFUMI SAKAKIBARA<sup>\*1</sup>, KENJI SUGAI<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>, YOSHIAKI SAITO<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, TAISUKE OTSUKI<sup>2</sup>  
<sup>1</sup> The Department of Child neurology, National Center Hospital of Neurology and Psychiatry, Tokyo  
<sup>2</sup> The Department of Neurosurgery, National Center Hospital of Neurology and Psychiatry, Tokyo
- O-144 single dipole model MEG analysis in pediatric epilepsy surgery**  
 MASAKI YOSHIMURA<sup>\*</sup>, KATSUMI IMAI, KOICHI BABA, YUKITOSHI TAKAHASHI, YUSHI INOUE, TATEKI FUJIWARA  
 National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders

- O-145 Clinical features of epilepsy patients with parietal foci estimated by MEG**  
 HIDEJI HATTORI\*<sup>1</sup>, TOSHIKI YOKOI<sup>1</sup>, SATORU SAKUMA<sup>2</sup>, KATSUJI TANAKA<sup>3</sup>, ICHIROU KUKI<sup>4</sup>,  
 HISASHI KAWAWAKI<sup>4</sup>, OSAMU MATSUOKA<sup>1</sup>, TSUNEKAZU YAMANO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka City University Graduate School of Medicine  
<sup>2</sup> Department of Pediatrics, Nishinomiya City Central Hospital, Nishinomiya  
<sup>3</sup> Department of Child Neurology, Sunago Ryouikuen, Nishinomiya  
<sup>4</sup> Department of Child Neurology, Osaka City General Hospital
- O-146 Polysomnographic findings of patients with sleep epilepsy**  
 YASUNORI OKA\*<sup>1</sup>, SHUHEI SUZUKI<sup>2</sup>  
<sup>1</sup> Department of Developmental Brain Science, Osaka Medical College, Osaka  
<sup>2</sup> Japan Somnology Center, Neuropsychiatric Research Institute, Tokyo
- O-147 Symptomatic partial epilepsy sharing clinicoelectrical characteristics of Panayiotopoulos syndrome**  
 YOSHIKO HIRANO\*, HIROKAZU OGUNI, MAKOTO FUNATUKA, KYOKO HIRASAWA, MAKIKO  
 OSAWA  
 Department of pediatrics, Tokyo Womens Medical University, Tokyo

## epilepsy · seizure 6 (treatment)

- O-148 The initial and long-term effects of topiramate for children with refractory generalized epilepsy**  
 TOSHIHIDE WATANABE\*, REIKI OYANAGI, KIMIO MINAGAWA  
 The Department of Pediatrics, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo
- O-149 Usefulness of topiramate for childhood intractable epilepsy: comparing by seizure type**  
 SHINICHIRO HAMANO\*<sup>1</sup>, TOMOTAKA ORITSU<sup>1,2</sup>, MOTOYUKI MINAMITANI<sup>3</sup>, MANABU TANAKA<sup>1</sup>,  
 KENJIRO KIKUCHI<sup>1,2</sup>, RYUKI MATSUURA<sup>2</sup>, SATOSHI YOSHINARI<sup>2</sup>, HIROYUKI IDA<sup>2</sup>  
<sup>1</sup> Division of Neurology, Saitama Children's Medical Center, Saitama  
<sup>2</sup> Department of Pediatrics, Jikei University school of Medicine, Tokyo  
<sup>3</sup> Department for Child Health and Human Development, Saitama Children's Medical Center, Saitama
- O-150 A clinical trial for minimal management against convulsion with mild gastroenteritis (CwG)**  
 TAKUYA TANABE\*<sup>1</sup>, AKIHISA OKUMURA<sup>2</sup>, KEITA HARA<sup>1</sup>, MIWA NAKAJIMA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Hirakata City Hospital, Osaka  
<sup>2</sup> Department of Pediatrics, Juntendo University, Tokyo
- O-151 Efficacy of high-dose phenobarbital therapy for refractory partial seizure during infancy**  
 KENJIRO KIKUCHI\*<sup>1</sup>, SHIN-ICHIRO HAMANO<sup>1</sup>, TOMOTAKA ORITSU<sup>1</sup>, NIRIMICHI HIGURASHI<sup>2</sup>,  
 SATOSHI YOSHINARI<sup>2</sup>, MANABU TANAKA<sup>1</sup>, MIKIYUKI MINAMITANI<sup>1</sup>, HIROYUKI IDA<sup>2</sup>  
<sup>1</sup> Division of Neurology, Saitama Children Medical Center, Saitama  
<sup>2</sup> Department of Pediatrics, Jikei University School of Medicine
- O-152 Treatment of non-idiopathic partial epilepsies based on seizure symptoms: A prospective study**  
 KENJI SUGAI\*, EIJI NAKAGAWA, HIROSHI SAKUMA, HIROFUMI KOMAKI, YOSHIKI SAITO,  
 MASAYUKI SASAKI  
 Department of Child Neurology, National Center Hospital of Neurology and Psychiatry, Kodaira
- O-153 Reappraisal of diet therapy for childhood intractable epilepsy.- Short term outcome -**  
 IMAI KATSUMI\*, HIROKA TAKAHASHI, SANAE OHTANI, SOUICHI MUKAIDA, JYUN MINE,  
 RUMIKO TAKAYAMA, MARIKO IKEGAMI, HIROKO IKEDA, YUKO KUBOTA, YUKITOSHI  
 TAKAHASHI, YUSHI INOUE, TATEKI FUJIWARA, ,  
 National Epilepsy Center, Shizuoka
- O-154 Clinical study of 4 Dravet syndrome patients undergoing successful long-term ketogenic diet therapy**  
 MASAKO SAKAUCHI\*<sup>1</sup>, HIROKAZU OGUNI<sup>1</sup>, MIYAKO OGUNI<sup>1,2</sup>, YASUSHI ITO<sup>1</sup>, MAKIKO OSAWA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Tokyo Women's Medical University, Tokyo  
<sup>2</sup> Yamawaki Gakuen Junior College food department
- O-155 Modified Atkins diet for intractable epilepsy**  
 TOMOHIRO KUMADA\*, TOMOKO MIYAJIMA, NOBUSUKE KIMURA, NOZOMI ODA, HIDEKI  
 SHIMOMURA, TATSUYA FUJII  
 Department of Pediatrics, Shiga Medical Center for Children, Shiga

## epilepsy · seizure 7 (genetics)

- O-156 De novo mutations of voltage-gated sodium channel alpha2 gene in childhood intractable epilepsies**  
IKUO OGIWARA<sup>\*1</sup>, YUKIO SAWAISHI<sup>2</sup>, HITOSHI OSAKA<sup>3</sup>, TATEKI FUJIWARA<sup>4</sup>, YUSHI INOUE<sup>4</sup>,  
KAZUHIRO YAMAKAWA<sup>1</sup>  
<sup>1</sup> Laboratory for Neurogenetics, RIKEN BSI, Wako, Saitama  
<sup>2</sup> Department of Pediatrics, Akita University School of Medicine, Akita  
<sup>3</sup> Division of Neurology, Kanagawa Children's Medical Center, Yokohama  
<sup>4</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka
- O-157 Severe myoclonic epilepsy in infancy with dual channel dysfunction**  
IORI OHMORI<sup>\*1</sup>, NOBUYOSHI MIMAKI<sup>2</sup>, MAMORU OUCHIDA<sup>3</sup>  
<sup>1</sup> Department of Physiology, Graduate School of Medicine, Dentistry and Pharmaceutical Science, Okayama University, Okayama  
<sup>2</sup> Pediatrics, Kurashiki Medical Center, Kurashiki  
<sup>3</sup> Department of Molecular Genetics, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Okayama
- O-158 A Long-Term Follow-up Study up to Adulthood in Dravet syndrome**  
MARI WAKAI<sup>\*</sup>, KATSUHIRO KOBAYASHI, HARUMI YOSHINAGA, YOKO OHTSUKA  
Department of Developmental Neuroscience and Child Neurology, Okayama University Medical School, Okayama
- O-159 Effects of growth hormone replacement therapy for glucose transporter 1 deficiency.**  
SHIN NABATAME<sup>\*1</sup>, KURIKO SHIMONO<sup>1</sup>, YOSHIKO MORITA<sup>1</sup>, YUKIHIRO KITAI<sup>1</sup>, KEN ARAYA<sup>1</sup>,  
KOJI TOMINAGA<sup>1</sup>, YOKO MIYOSHI<sup>1</sup>, TAKESHI OKINAGA<sup>1</sup>, KEIKO YANAGIHARA<sup>2</sup>, KATSUMI IMAI<sup>3</sup>,  
TOSHISABURO NAGAI<sup>4</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Suita  
<sup>2</sup> Division of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health, Izumi  
<sup>3</sup> Pediatrics, Shizuoka Institute of Epilepsy and Neurological Disorders  
<sup>4</sup> Division of Health Sciences, Osaka University Graduate School of Medicine, Suita
- O-160 Array-CGH revealed chromosomal aberrations of 17p in three patients with MR and epilepsy**  
KEIKO SHIMOJIMA<sup>\*1</sup>, CHITOSE SUGIURA<sup>2</sup>, HIROKA TAKAHASHI<sup>3</sup>, YUKITOSHI TAKAHASHI<sup>3</sup>,  
YUKO KUBOTA<sup>3</sup>, KAYOKO SAITO<sup>4</sup>, TOSHIYUKI YAMAMOTO<sup>1</sup>  
<sup>1</sup> International Research and Educational Institute for Integrated Medical Sciences (IREIIMS), Tokyo Women's Medical University, Tokyo  
<sup>2</sup> Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University  
<sup>3</sup> Department of Pediatrics, National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka  
<sup>4</sup> Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo

## acute encephalopathy 5 (others)

- O-161 'AESD index' for early detection of AESD**  
TOMOHIRO GOTO<sup>\*1</sup>, NAOKO KIMURA<sup>1</sup>, YUSUKE GOTO<sup>2</sup>, TSUTOMU TAKAHASHI<sup>3</sup>, NAOKO YOSHIDA<sup>4</sup>,  
TOSHIHIRO NOMURA<sup>5</sup>, FUJIYO ARIMA<sup>6</sup>, TETSUJI KANEKO<sup>7,8</sup>, SAHOKO MIYAMA<sup>1</sup>  
<sup>1</sup> Department of Neurology, Tokyo Metropolitan Kiyose Children's Hospital, Tokyo  
<sup>2</sup> Department of Pediatrics, Yamanashi Prefectural Central Hospital, Yamanashi  
<sup>3</sup> Department of Pediatrics, Saiseikai Utsunomiya Hospital, Tochigi  
<sup>4</sup> Department of Pediatrics, Kyosai Tachikawa Hospital, Tokyo  
<sup>5</sup> Department of Pediatrics, National Hospital Organization Saitama National Hospital, Saitama  
<sup>6</sup> Department of Pediatrics, National Hospital Organization Tokyo Medical Center, Tokyo  
<sup>7</sup> Clinical Research Division, Tokyo Metropolitan Kiyose Children's Hospital, Tokyo  
<sup>8</sup> Department of Biostatistics/Epidemiology and Preventive Health Sciences, School of Health Sciences and Nursing, University of Tokyo, Tokyo
- O-162 Clinical significance of urinary beta2-microglobulin as an early marker of acute encephalopathy**  
SHINICHI HIRABAYASHI<sup>\*</sup>, SATORU HIRANO, NOBORU FUEKI  
Division of Neurology, Nagano Children's Hospital, Azumino, Nagano

- O-163 Clinical criteria to predict acute encephalopathy among children with complex febrile seizures**  
TAKU NAKAGAWA\*, KAZUNORI AOKI, KYOKO SAWADA, YOHSUKE SAJI, AZUSA MARUYAMA, HIROAKI NAGASE  
Pediatrics, Hyogo Prefectural Kobe Children's Hospital, Hyogo
- O-164 The diagnostic approach of status epilepticus in children with fever and uncounciousness**  
KAYANO IGARASHI\*, EMI ISHIBAZAWA, MAYUMI KAJINO, JYUNICHI OKI  
Department of Pediatrics, Asahikawa Kosei Hospital, Asahikawa
- O-165 Prospective multicenter study of status epilepticus**  
YOSHIHIRO MAEGAKI\*, KOUSAKU OHNO  
Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University
- O-166 An epidemiological study of children with status epilepticus in Yachiyo (2007)**  
YOKO MORIYAMA\*, NOZOMI TUCHIYA, YASUHIRO MAEDA, YOSUKE HIROSE, YURI SHIRATO, MASAKI YOSHIDA, KAORI SASAKI, AYAKO MUTO, KITAMI HAYASHI  
Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo

## acute encephalopathy 6 (others)

- O-167 Study of neurological and image findings in RSV infection with central nervous involvement.**  
SHINGO OANA\*, GAKU YAMANAKA, HIROAKI IOI, HISASHI KAWASHIMA, YU ISHIDA, SHINITIROU MORICHI, YUSUKE SUGANAMI, TASUKU MIYAJIMA, AKINORI HOSHIKA  
Department of Pediatrics, Tokyo Medical University, Tokyo
- O-168 Thalamic lesions in the encephalopathy with transient reduced diffusion of cerebral white matter.**  
KAZUYUKI NAKAMURA\*, MITSUHIRO KATO, NOBUYA TAKAHASHI, KIYOSHI HAYASAKA  
The Department of Pediatrics, Yamagata University faculty of medicine, Yamagata
- O-169 The clinical study of psychophysiological deficit in patients with AEFCS**  
ICHIRO KUKI\*<sup>1</sup>, MASASHI SHIOMI<sup>2</sup>, TAKESHI INOUE<sup>1</sup>, MEGUMI NUKUI<sup>1</sup>, SHIHOKO KIMURA<sup>1</sup>, SHIN OKAZAKI<sup>1</sup>, HISASHI KAWAWAKI<sup>1</sup>, MASAKO OKADA<sup>1</sup>, MASAO TOGAWA<sup>3</sup>, KIYOTAKA TOMIWA<sup>4</sup>  
<sup>1</sup> Department of Pediatric Neurology, Osaka City General Hospital, Osaka  
<sup>2</sup> Department of Infectious Medicine, University of Osaka City University, Osaka  
<sup>3</sup> Department of Pediatric Emergency Medicine, Osaka City General Hospital, Osaka  
<sup>4</sup> Graduate school, of Medicine, Kyoto University, Kyoto
- O-170 Clinical features of epilepsy after influenza encephalitis and encephalopathy**  
JUN MINE\*, YUKITOSHI TAKAHASHI, MARIKO IKEGAMI, RUMIKO TAKAYAMA, SOUICHI MUKAIDA, HIROKA TAKAHASHI, SANAE OTANI, HIROKO IKEDA, YUKO KUBOTA, KATUMI IMAI, TATEKI FUJIWARA  
National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders
- O-171 Outcome of acute encephalopathy in relation to treatment timing of corticosteroids**  
YU ABE\*<sup>1</sup>, MITSUGU UEMATSU<sup>1</sup>, MASARU TAKAYANAGI<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, University of Tohoku, Miyagi  
<sup>2</sup> Sendai City Hospital, Miyagi
- O-172 Family support to sequelae of acute encephalopathy**  
MANA KURIHARA\*<sup>1</sup>, TOSHITAKA KOHAGIZAWA<sup>1,2</sup>, YUKO YAMAUCHI<sup>1,2</sup>, KAYOKO TAKAHASHI<sup>1,2</sup>, HIROYUKI IDA<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, The Kanagawa Rehabilitation Center, Atsugi, Kanagawa  
<sup>2</sup> Jikei University School of Medicine, Tokyo
- O-173 Clinical study of 14 children with acute encephalopathy**  
KENJI WATANABE\*, NOZOMI SANNO, KOUICHI YOSIDOME, MASAHIKO SHIGEMORI  
National Minami Kyushu Hospital, Aira-gun, Kagoshima

## adverse drug reaction 2

- O-174 Renal tubular dysfunction associated with valproic acid therapy in three severely disabled children**  
TAKESHI INOUE\*<sup>1</sup>, HISASHI ITABASHI<sup>1,2</sup>, KEIITI SHIMAMURA<sup>1,2</sup>, SYUNJI KITA<sup>1</sup>, YURIKO TANAKA<sup>1</sup>,  
ATUNORI YOSHINO<sup>1</sup>, NOBUYUKI MURAKAMI<sup>1,2</sup>, RYOUITI SAKUTA<sup>1,2</sup>, TOSHIROU NAGAI<sup>1</sup>  
<sup>1</sup> The Department of Pediatrics, Dokkyo Medical University Koshigaya Hospital, Saitama  
<sup>2</sup> The Department of Kodomonokokoro, Dokkyo Medical University Koshigaya Hospital, Saitama
- O-175 Characterization of acylcarnitines in children under long-term valproate therapy using HPLC-MS/MS**  
YOKO NAKAJIMA\*<sup>1</sup>, SATORU KOBAYASHI<sup>1</sup>, NAOKI ANDO<sup>1</sup>, TETSUYA ITO<sup>1</sup>, NARUJI SUGIYAMA<sup>2</sup>  
<sup>1</sup> Department of Neonatology and Pediatrics, Nagoya City University Medical School, Nagoya  
<sup>2</sup> Department of Pharmacology, Aichi-Gakuin University, Nagoya
- O-176 Correlation between renal tubular dysfunction and serum carnitine deficiency in valproate therapy**  
HIIROAKI ONO\*  
The Department of Pediatrics, Hiroshima Prefectural Hospital, Hiroshima
- O-177 Renal tubular dysfunction in epileptic patients: influence of valproic acid**  
AYUMI ENDO\*, YUKIHIKO FUJITA, YUKI IMAI, MAKI HASEGAWA, WAKAKO HARUYAMA,  
CHIKAKO ARAKAWA, RYUTARO KOHIRA, TATSUO FUCHIGAMI, SHOURI TAKAHASHI, HIDEO  
MUGISHIMA  
Department of Pediatrics and Child Health, Nihon University School of Medicine, Tokyo

## metabolic disorder 5(mitochondrial disease)

- O-178 Clinical, biochemical and genetic characteristics of 105 Japanese patients with PDHC deficiency**  
ETSUO NAITO\*<sup>1</sup>, MIO NISHIMURA<sup>1</sup>, SEISHI SHIMAKWA<sup>1</sup>, TOSHIAKI HASHIMOTO<sup>1</sup>, YUMIKO  
KOTANI<sup>2</sup>, SHOJI KAGAMI<sup>2</sup>  
<sup>1</sup> Division of Pediatrics Japanese Red Cross Tokushima Hinomine Rehabilitation Center for People with  
Disabilities, Tokushima  
<sup>2</sup> 2) Department of Pediatrics, Institute of Health Biosciences, The University of Tokushima, Graduate School,  
Tokushima
- O-179 Clinical and pathophysiological study of mitochondrial respiratory chain complex I disorder**  
YURI NAGAO\*, KAZUE KIMURA, KEI HACHIMORI, YUKI ANZAI, YOSHIKO NOMURA, MASAYA  
SEGAWA  
Segawa Neurological Clinic for Children, Tokyo
- O-180 Cerebrospinal fluid lactate concentration in mitochondrial diseases**  
KEITARO YAMADA\*, YU INADA, YUKIKO MOGAMI, YASUHISA TORIBE, KEIKO YANAGIHARA,  
TOSHIYUKI MANO, YASUHIRO SUZUKI  
Department of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child  
Health, Osaka
- O-181 Serial brain imaging analysis of stroke-like episodes in MELAS**  
HIROMICHI ITO\*<sup>1</sup>, KENJI MORI<sup>2</sup>, ETSUO NAITO<sup>3</sup>, MASAFUMI HARADA<sup>4</sup>, SHOJI KAGAMI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Kaisei General Hospital, Kagawa  
<sup>2</sup> Department of Pediatrics, University of Tokushima, Tokushima  
<sup>3</sup> Division of Pediatrics, Japanese Red Cross Tokushima Hinomine Rehabilitation Center for People with  
Disabilities, Tokushima  
<sup>4</sup> Department of Radiologic Technology, University of Tokushima, Tokushima
- O-182 Effectiveness of pyruvate therapy for Leigh syndrome: a preliminary report**  
HIROYUKI WAKAMOTO\*<sup>1</sup>, TAKAHIRO MOTOKI<sup>1</sup>, HIROMITSU OHMORI<sup>1</sup>, YUTAKA NISHIGAKI<sup>3</sup>,  
MASASHI TANAKA<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Ehime Prefecture Central Hospital  
<sup>2</sup> Department of Pediatrics, Ehime Prefectural Center for Child Health and Development  
<sup>3</sup> Genomics for Longevity and Health, Tokyo Metropolitan Institute of Gerontology

## metabolic disorder 6(others)

### O-183 Screening for pompe disease

ERI ODA\*<sup>1</sup>, TOJU TANAKA<sup>1</sup>, RIKA KOZAKI<sup>1</sup>, MAKIKO OSAWA<sup>2</sup>, TORAYUKI OKUYAMA<sup>1</sup>

<sup>1</sup> national center for childhealth and development

<sup>2</sup> tokyo womens university

### O-184 Structural study on mutant acid alpha-glucosidases leading to Pompe disease

KANAKO SUGAWARA\*<sup>1</sup>, HITOSHI SAKURABA<sup>1,2</sup>

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

<sup>2</sup> Department of Analytical Biochemistry, Meiji Pharmaceutical University, Tokyo

### O-185 The efficacy of enzyme replacement therapy on the patients with mucopolysaccharidoses type I and II

TOMO SAWADA\*, AKEMI TANAKA, KAZUYOSHI ASO, AKITOSHI TSURUHARA, TOSHIKI YOKOI, HIDEJI HATTORI, TSUNEKAZU YAMANO

Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka

### O-186 Evoked potentials in glucose transporter-1 deficiency (Glut-1DS). (1) Almost absent median nerve SEP

KATSUMI IMAI\*<sup>1</sup>, TAKESHI OKINAGA<sup>2</sup>, SHIHOKO KIMURA<sup>2,3</sup>, NORIKO KAMIO<sup>2,4</sup>, SHIN NABATAME<sup>2,5</sup>, KURIKO SHIMONO<sup>2</sup>, KEIICHI OZONO<sup>2</sup>, KEIKO YANAGIHARA<sup>6</sup>, TOSHISABURO NAGAI<sup>2,7</sup>

<sup>1</sup> Epilepsy Unit, National Epilepsy Center, Shizuoka

<sup>2</sup> Pediatrics, Osaka university, Suita, JAPAN

<sup>3</sup> Pediatric Neurology, Osaka City General Hospital, Osaka, JAPAN

<sup>4</sup> Pediatrics, Itami Municipal Hospital, Itami, JAPAN

<sup>5</sup> Pediatric Neurology, Morinomiya Hospital, Osaka, JAPAN

<sup>6</sup> Pediatric Neurology, Osaka Medical Center for Maternal and Child Health

<sup>7</sup> Health science, Osaka University

### O-187 Disturbances of GABAergic interneurons in xeroderma pigmentosum group A

MASAHARU HAYASHI\*<sup>1</sup>, SATOSHI ARAKI<sup>2</sup>

<sup>1</sup> The Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo

<sup>2</sup> The Department of Pediatrics, Tokyo Medical and Dental University, Tokyo

## muscular disease 3

### O-188 Prednisolone Treatment in Duchenne Muscular Dystrophy

HIDEKI SHIMOMURA\*, TATSUYA FUJII, NOZOMI ODA, NOBUSUKE KIMURA, TOMOHIRO KUMADA, TOMOKO MIYAJIMA

Department of Pediatrics, Shiga Medical Center for Children, Moriyama

### O-189 Construction of a rapid mutation detection system for Duchenne muscular dystrophy in Yakumo Hospital

YUKITOSHI ISHIKAWA\*, YUKA ISHIKAWA

Department of Pediatrics, Yakumo National Hospital, National Hospital Organization, Yakumo

### O-190 Importance of checking exon skipping events prior to clinical trials using antisense in DMD

SHIGEMI KIMURA\*<sup>1</sup>, ISAO FJII<sup>2</sup>, SHIRO OZASA<sup>1</sup>, KEIKO NOMURA<sup>1</sup>, KAORI ITO<sup>2</sup>, HIROFUMI KOSUGE<sup>1</sup>, MAKOTO MATSUKURA<sup>2</sup>

<sup>1</sup> Department of Child Development, Kumamoto University Graduate School, Kumamoto

<sup>2</sup> Laboratory of Clinical Pharmacology and Therapeutics, Faculty of Pharmaceutical Sciences, Sojo University, Kumamoto

### O-191 Clinical analysis of 10 patients with Juvenile dermatomyositis

KEIKO ISHIGAKI\*, YUKIKO HIRANO, TERUMI MURAKAMI, TAKAYUKI KISHI, TAKATOSHI SATO, KEIKO SHISHIKURA, HARUKO SUZUKI, YOSHITO HIRAYAMA, MAKIKO OSAWA

The Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo

**O-192 A case of Schwartz-Jampel syndrome**

RYOKO HONDA<sup>\*1</sup>, HIDEO KUNIBA<sup>1</sup>, TATSUHARU SATO<sup>1</sup>, ICHIZO NISHINO<sup>2</sup>, YOSHIHIKO IMAMURA<sup>1</sup>, AKIRA TSURU<sup>3</sup>, TADASHI MATSUMOTO<sup>4</sup>, HIROYUKI MORIUCHI<sup>1</sup>

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<sup>4</sup> Faculty of Health Sciences, School of Medicine, Nagasaki University

<sup>5</sup> Department of child Neurology, National Center Hospital of Neurology and Psychiatry

**O-193 Growing and preventable NPPV treatment against congenital muscle disease**

MASAHIRO ITO<sup>\*1</sup>, HISAMITSU TAMAKI<sup>1</sup>, AYA NARITA<sup>1</sup>, KEI KOMIYA<sup>1</sup>, MAMIKO HOTATE<sup>1</sup>, IKUYA NONAKA<sup>2</sup>

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<sup>2</sup> National center of neurology and psychiatry

## PC movie 1

**O-194 A case of JIA who manifested the long duration of antalgic gait and atrophy of the left leg**

TOMOKO UCHIDA<sup>\*1</sup>, KATSUNORI FUJII<sup>1</sup>, TOSHINO MOTOJIMA<sup>3</sup>, HIDEE ARAI<sup>3</sup>, RYO TANABE<sup>1</sup>, YOICHI KOHNO<sup>1</sup>

<sup>1</sup> Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba

<sup>2</sup> Department of allergy and immunology, Chiba Children's Hospital, Chiba

<sup>3</sup> Department of Neurology, Chiba Children's Hospital, Chiba

**O-195 A case of poststreptococcal encephalitis with bilateral basal ganglia involvement**

YASUO HACHIYA<sup>\*</sup>, SATOKO KUMADA, AI HOSHINO, YUKIKO HANAFUSA, EIJI KURIHARA

The Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo

**O-196 Clinical Study of Botulinum-A toxin for the cervical dystonia**

KURIKO SHIMONO<sup>\*1</sup>, NATSUKO HASHIMOTO<sup>1</sup>, YOSHIHIRO KITAI<sup>1</sup>, MASAYA TACHIBANA<sup>3</sup>, KEN ARAYA<sup>1</sup>, KOUJI TOMINAGA<sup>1</sup>, TAKESHI OKINAGA<sup>1</sup>, NORIO SAKAI<sup>1</sup>, IKUKO MOHRI<sup>3</sup>, MASAKO TANIIE<sup>3</sup>, TOSHISABUROU NAGAI<sup>2</sup>, KEIICHI OZONO<sup>1</sup>

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<sup>3</sup> Department of Mental Health and Environmental Effects Research, Molecular Research Center for Child Mental Development, Osaka University Graduate School of Medicine, Osaka

**O-197 The clinical features of childhood onset limb-girdle myasthenia in 3 patients**

CHIZURU IKEDA<sup>\*1</sup>, HIROFUMI KOMAKI<sup>1</sup>, CHIAKI KATSURA<sup>1</sup>, YASUSHI OHYA<sup>2</sup>, HIROSHI SAKUMA<sup>1</sup>, YOSHIKI SAITO<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>

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**O-198 Dysphagia Rehabilitation for a patient with Fukuyama type dystrophy**

MINORU INADA<sup>\*1</sup>, HIROSHI OZAWA<sup>2</sup>, AYAKA KOIDE<sup>3</sup>, ATSUHIRO SOEDA<sup>4</sup>, KIYOAAHI ARIMOTO<sup>2</sup>, SATOSHI KIMIYA<sup>2</sup>

<sup>1</sup> Dentistry, Shimada Ryoiku Center

<sup>2</sup> Pediatrics, Shimada Ryoiku Center

<sup>3</sup> Tokyo Metropolitan Hachioji Children's Hospital

<sup>4</sup> Pediatrics, Tama-Nambu Chiiki hospital

## PC movie 2

**O-199 Therapeutic course of enzyme replacement therapy for a patient with childhood-onset Pompe disease**

KEIKO ISHIGAKI<sup>\*</sup>, TERUMI MURAKAMI, TAKATOSHI SATO, KEIKO SHISHIKURA, HARUKO SUZUKI, YOSHITO HIRAYAMA, MAKIKO OSAWA

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**O-200 Evaluation of video-EEG findings in periodic slow head nodding fits**

TOMOKO MIZUNO<sup>\*</sup>, EIJI NAKAGAWA, HIROSHI SAKUMA, YOSHIKI SAITOU, HIROFUMI KOMAKI, KENJI SUGAI, MASAYUKI SASAKI

The Department of Child Neurology, National Center of Neurology and Psychiatry, Hospital, Tokyo

**O-201 A child case of epileptic tonic seizure**

AI HOSHINO\*<sup>1</sup>, SATOKO KUMADA<sup>1</sup>, SHIGEKI SUNAGA<sup>2</sup>, YASUO HACHIYA<sup>1</sup>, YUKIKO HANAFUSA<sup>1</sup>,  
TAKAKO YUI<sup>3</sup>, EIJI KURIHARA<sup>1</sup>

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<sup>2</sup> Department of Neurosurgery, Tokyo Metropolitan Neurological Hospital

<sup>3</sup> Department of Pediatrics, Yokohama City Red Cross Hospital

**O-202 A case of non-herpetic limbic encephalitis with various involuntary movement**

YUUKI WATANABE\*, RYUJI KAGEYAMA, SEIKO FUJIKI, TOMOMI HARAI, KAZUSI MIYA, TIAKI  
TANAKA, KAZUHISA HONGOU, FUKIKO ICHIDA, TOSIO MIYAWAKI

University of Toyama, Toyama

**O-203 A patient of mucopolidosis type 3 with involuntary movement**

MUNETSUGU HARA\*, TAKASHI OOYA, YORIKO WATANABE, YUSHIROU YAMASHITA,  
TOYOZIROU MATSUIISHI, MAKOTO YOSHINO

Department of Pediatrics & Child Health Kurume University School of Medicine, Fukuoka

**O-204 Gelastic cataplexy gave us a clue of diagnosis of Niemann-Pick disease type C**

SOUICHI MUKAIDA\*<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>1</sup>, YUUKO KUBOTA<sup>1</sup>, TAKEHIKO INOUE<sup>2</sup>, SHINJI  
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<sup>2</sup> Tottori University Faculty of Medicine, Tottori

<sup>3</sup> Chuno welfare hospital, Gifu

## infectious and autoimmune disease 6

**O-205 ADEM**

MEGUMI NUKUI\*<sup>1</sup>, SHIN OKAZAKI<sup>1</sup>, ICHIRO KUKI<sup>1</sup>, TAKESHI INOUE<sup>1</sup>, SHIHOKO KIMURA<sup>1</sup>,  
HISASHI KAWAWAKI<sup>1</sup>, KIYOTAKA TOMIWA<sup>1,2</sup>, MASAO TOGAWA<sup>3</sup>, MASASHI SHIOMI<sup>4</sup>

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<sup>4</sup> Department of Infectious Medicine, University of Osaka City University, Osaka

**O-206 Clinical investigation of inflammatory demyelinating disorders of the CNS in 21 pediatric cases**

REIKO KOICHIHARA\*<sup>1</sup>, SHINICHIRO HAMANO<sup>2</sup>

<sup>1</sup> Chichibu Municipal Hospital, Saitama

<sup>2</sup> Saitama Children's Medical Center, Saitama

**O-207 The clinical characterizations and their follow-up study of MS/ADEM in pediatric patients.**

SEIGO KOREMATSU\*, RIE KATO, KENSUKE AKIYOSHI, TOMOKI MAEDA, TATSURO IZUMI

Department of Pediatrics and Child Neurology, Oita University Faculty of Medicine, Oita

**O-208 CNS aquaporin-4 autoimmunity in Japanese children**

NAOMI HINO-FUKUYO\*<sup>1</sup>, TOSHIYUKI TAKAHASHI<sup>2</sup>, MITSUGU UEMATSU<sup>1</sup>, KAZUHIRO  
HAGINOYA<sup>1,3</sup>, SHIGERU TSUCHIYA<sup>1</sup>, KAZUO FUJIWARA<sup>2</sup>

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<sup>3</sup> Department of Pediatric Neurology, Takuto Rehabilitation Center for children

**O-209 Problems for management of remission phase in child-onset multiple sclerosis**

SHOHEI WATANABE\*<sup>1</sup>, MITSUMASA FUKUDA<sup>2</sup>, YUKA SUZUKI<sup>2</sup>, CHIYA KIKUCHI<sup>2</sup>, TAKEHIKO  
MORIMOTO<sup>2</sup>, KENTARO OKAMOTO<sup>3</sup>

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<sup>3</sup> Department of Pediatrics, Ehime Prefectural Niihama Hospital, Ehime

**O-210 Structural analysis of TCR/peptide/MHC complex for the development of new therapy**

ZENICHIRO KATO\*<sup>1</sup>, NAOMI KONDO<sup>1,3,4</sup>

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<sup>2</sup> Molecular and Cellular Biology, Harvard University, Cambridge, USA

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<sup>4</sup> Center for Advanced Drug Research, CADR, Gifu University, Gifu



**O-211 A Report of Six Patients who were treated with Plasma Exchange**

TAKESHI INOUE<sup>\*1</sup>, HISASHI KAWAWAKI<sup>1</sup>, TAEKA HATTORI<sup>1</sup>, MEGUMI NUKUI<sup>1</sup>, ICHIRO KUKI<sup>1</sup>,  
SHIHOKO KIMURA<sup>1</sup>, SHIN OKAZAKI<sup>1</sup>, HIROSHI RINKA<sup>2</sup>, KIYOTAKA TOMIWA<sup>3</sup>

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<sup>3</sup> Genetic Counseling and Clinical Research Unit Graduate School of Medicine, Kyoto University, Kyoto

## congenital anomaly · chromosomal abnormality 1

- P-001 Benign and Malignant Tumors in Down Syndrome: Analysis of the Autopsy Cases in Japan**  
HIROAKI EHARA<sup>\*1</sup>, KOUSAKU OHNO<sup>2</sup>  
<sup>1</sup> Department of Early Childhood Education and Care, Kurashiki City College  
<sup>2</sup> Division of Child Neurology, Institute of Neurological Sciences, School of Medicine, Tottori University
- P-002 A case of Down syndrome with achalasia**  
HARUMI SAIJO<sup>\*</sup>, TAKANORI EZOE, HIROSI HAMAGUCHI, HISAHARU SUZUKI, KIYOKO KURATA  
Tokyo Metropolitan Higashiyamoto Medical Center, Tokyo
- P-003 Down syndrome associated with duodenal obstruction as a risk factor for athetotic cerebral palsy**  
KENJI KUROSAWA<sup>\*1</sup>, KIYOKO SAMESHIMA<sup>2</sup>, HITOSHI OSAKA<sup>2</sup>, IZUE IAI<sup>2</sup>, SUMIMASA YAMASHITA<sup>2</sup>  
<sup>1</sup> Division of Medical Genetics, Kanagawa Children's Medical Center, Yokohama  
<sup>2</sup> Division of Pediatric Neurology, Kanagawa Children's Medical Center, Yokohama
- P-004 Clinical study of Angelman syndrome**  
HIROKO TADA<sup>\*1</sup>, KASUMI NAGASAWA<sup>1</sup>, MITSUKO ISHII<sup>1</sup>, MAMIKO ENDO<sup>1</sup>, MICHIO EHARA<sup>1</sup>, JUN-ICHI TAKANASHI<sup>2</sup>  
<sup>1</sup> Chiba rehabilitation center  
<sup>2</sup> Kameda Medical center
- P-005 A girl with brainstem disconnection**  
AKIHISA OKUMURA<sup>\*1</sup>, JUN-ICHI TAKANASHI<sup>2</sup>, TOSHIYUKI YAMAMOTO<sup>3</sup>, KEIKO SHIMOJIMA<sup>3</sup>, SHINPEI ABE<sup>1</sup>, MASAKO SAITO<sup>1</sup>, TOMOYUKI NAKAZAWA<sup>4</sup>, TOSHIKI SHIMIZU<sup>1</sup>  
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<sup>3</sup> International Research and Educational Institute for Integrated Medical Sciences, Tokyo Women's Medical University  
<sup>4</sup> Department of Pediatrics, Juntendo Urayasu Hospital, Tokyo
- P-006 Four case reports with neural tube defects in Mexico**  
SACHIKO ONOE<sup>\*</sup>  
The Department of Pediatrics, The civil Hospital of Xalapa, Veracruz, Mexico
- P-007 Two cases with caudal regression syndrome**  
SAHOKO MIYAMA<sup>\*</sup>, TOMOHIDE GOTO  
Department of Neurology, Tokyo Metropolitan Kiyose Children's Hospital, Tokyo
- P-008 Proximal 15q Syndrome: Cases with autism and mental retardation due to proximal 15q duplication**  
SEIJI MIZUNO<sup>\*1</sup>, MOTOMASA SUZUKI<sup>2</sup>, KOICHI MARUYAMA<sup>2</sup>, CHIEMI HAYAKAWA<sup>3</sup>, AKIKO MATSUMOTO<sup>3</sup>, TOSHIYUKI KUMAGAI<sup>3</sup>, SHUJI MIYAZAKI<sup>2</sup>  
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<sup>2</sup> Dept of Pediatric Neurology, Central Hospital, Aichi Human Service Center, Kasugai  
<sup>3</sup> Kobato-gakuen, Aichi Human Service Center, Kasugai
- P-009 A case of migration disorder with 14q-, 21q-**  
KIYOKO SAMESHIMA<sup>\*1</sup>, ATSUSHI TAKAGI<sup>1</sup>, MEGUMI TSUJI<sup>1</sup>, MIZUE IAI<sup>1</sup>, SUMIMASA YAMASHITA<sup>1</sup>, HITOSHI OSAKA<sup>1</sup>, KENJI KUROSAWA<sup>2</sup>  
<sup>1</sup> Division of Neurology, Kanagawa Children's Medical Center, Yokohama  
<sup>2</sup> Division of Medical Genetics, Kanagawa Children's Medical Center, Yokohama
- P-010 Examination of a candidate gene of the variant type of HPE with a chromosomal deletion in 6q**  
YUICHI ABE<sup>\*1</sup>, TAKAHUMI SHIMADA<sup>3</sup>, AKIKO KOYAMA<sup>3</sup>, HIDEKI HOSHINO<sup>3</sup>, MASAYA KUBOTA<sup>3</sup>, TOSHIYUKI MIYASHITA<sup>2</sup>, AKIRA OKA<sup>1</sup>  
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<sup>3</sup> Department of Neurology, National Center for Child Health and Development, Tokyo
- P-011 CGH array analysis in two cases of the pericentromeric abnormality of chromosome 15**  
YUKIO SAWAISHI<sup>\*1</sup>, TOSHIYUKI YAMAMOTO<sup>2</sup>, KEIKO SHIMOJIMA<sup>2</sup>, TAMAMI YANO<sup>1</sup>, AYA HIRAYAMA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Akita University School of Medicine  
<sup>2</sup> International Research and Educational Institute for Integrated Medical Sciences, Tokyo

**P-012 A Japanese boy with 1p36 deletion syndrome: case report**

AKIE MIYAMOTO\*<sup>1</sup>, YOSHIO MAKITA<sup>2</sup>, IKUE FUKUDA<sup>1</sup>, HAJIME TANAKA<sup>1</sup>, RYUJI OKA<sup>1</sup>,  
KAZUHIKO CHO<sup>1</sup>, SHIN HAYASHI<sup>3</sup>, ISSEI IMOTO<sup>3</sup>, JOUJI INAZAWA<sup>3</sup>

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## congenital anomaly · chromosomal abnormality 2

**P-013 Bilateral perisylvian dysgenesis: clinical features in early childhood**

TOMOYUKI TAKANO\*<sup>1</sup>, KUMIKO MATSUWAKE<sup>1</sup>, SEIICHIROU YOSHIOKA<sup>1</sup>, CHIHIRO SAWAI<sup>1</sup>,  
YUKO SAKAUE<sup>1</sup>, YOSHIHIRO TAKEUCHI<sup>1</sup>, MASAKI OHNO<sup>2</sup>

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**P-014 The clinical characterization and its basic pathogenesis of colpocephaly**

KAZUO OKANARI\*, TOMOKI MAEDA, TATSURO IZUMI

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**P-015 A missense mutation in a family with X-linked hydrocephalus**

SHIHO HONZAWA\*, SHUHEI IDE, MINA YOKOYAMA, YUKIKO OSAWA, YUKO TAKI, MICHIO  
FUKUMIZU, TATSUO MASUYAMA, YUJI IWASAKI, MASATAKA ARIMA

Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/Multiple Disabilities, Tokyo

**P-016 Joubert syndrome in sisters**

SHINYA NINOMIYA\*<sup>1</sup>, NORIKO NAKAMURA<sup>1,2</sup>, TAKAKO FUJITA<sup>1</sup>, HIROSHI IDEGUCHI<sup>1</sup>, TAKAHITO  
INOUE<sup>1</sup>, SAWA YASUMOTO<sup>1</sup>, ATSUSHI OGAWA<sup>2</sup>, SHINICHI HIROSE<sup>1</sup>

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<sup>2</sup> Department of Pediatrics, Chikushi Hospital, Fukuoka University, Fukuoka

**P-017 A case of cerebral migration disorder with hypogonadotropic hypogonadism**

SHINJIRO AKABOSHI\*, NORIKO KOMATSU, EIJI NAKANO

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**P-018 A case report of the specific periventricular heterotopia**

RIE TSUBUEAYA\*<sup>1</sup>, MITSUGU UEMATSU<sup>1</sup>, NATSUKO ARAI<sup>1</sup>, NAOMI FUKUYO<sup>1</sup>, SHIGERU  
TSUCHIYA<sup>1</sup>, MITSUHIRO KATOU<sup>2</sup>

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**P-019 Costello syndrome with empty sella on brain MRI**

KYOKO WATANABE\*, YOICHI TOKUNAGA

National Hospital Organization Kokura Medical Center, Kitakyushu

**P-020 Progressive course in two sisters with Leucodysplasia, microcephaly, cerebral malformation (LMC)**

MIEKO HIROSE\*<sup>1</sup>, HIROYUKI YOKOYAMA<sup>2</sup>, KAZUHIRO HAGINOYA<sup>1,3</sup>, RIE TSUBURAYA<sup>1</sup>,  
ATSUO KIKUCHI<sup>1</sup>, TOJO NAKAYAMA<sup>1</sup>, NAOMI FUKUYO<sup>1</sup>, MITSUTOSHI MUNAKATA<sup>1</sup>, MITSUGU  
UEMATSU<sup>1</sup>, KAZUIE IINUMA<sup>4</sup>, MITSUHIRO KATO<sup>5</sup>, SHIGERU TSUCHIYA<sup>1</sup>

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## congenital anomaly · chromosomal abnormality 3 · phacomatosis

**P-021 A case of popliteal pterygium syndrome with tracheostomy for upper airway stenosis**

MIYUKI TOYONO\*<sup>1</sup>, AYA HIRAYAMA<sup>2</sup>, MASAHIRO MAKUTA<sup>1</sup>, KENJIROU KOSAKI<sup>3</sup>

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<sup>2</sup> Akitaken Taiheiryuikuen Hospital for Disabled Children, Akita

<sup>3</sup> Keio University Hospital, Tokyo

- P-022 A case of perisylvian polymicrogyria with constriction band syndrome**  
YOICHI TOKUNAGA<sup>\*1</sup>, KYOKO WATANABE<sup>2</sup>  
<sup>1</sup> Kyushu Rosai Hospital, Kitakyushu  
<sup>2</sup> National Hospital Organization Kokura Medical Center, Kitakyushu
- P-023 3 case reports of Macrocephaly - Cutis Marmorata Telangiectatica Congenita (M-CMTC) in pediatrics**  
MAIKO SAKAKIMOTO<sup>\*</sup>, KATSUNORI FUJII, MAMIKO ENDO, RYO TANABE, TADASHI SHIOHAMA, YOICHI KOHNO  
Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba
- P-024 The case in two brothers with osteosclerotic metaphyseal dysplasia**  
TOMOKO KIRINO<sup>\*1</sup>, YUMI FUJIWAR<sup>1</sup>, SHIGEHIRO NAGAI<sup>1</sup>, KUNIAKI FUKUDA<sup>2</sup>, SHOICHI ENDO<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, National Kagawa Children's Hospital, Zentsuji, Kagawa  
<sup>2</sup> The Department of Neurology, National Kagawa Children's Hospital, Zentsuji, Kagawa
- P-025 A 7-year-old boy with congenital anomalies and cerebral white matter lesions**  
KOICHI TANDA<sup>\*</sup>, JUN MORI  
The Department of Pediatrics, NHO Maizuru Medical Center, Kyoto
- P-026 A clinical and genetic study in 10 cases with neurofibromatosis type 1 (NF1)**  
TOSHIYUKI IWASAKI<sup>\*1</sup>, YUTAKA NONODA<sup>1</sup>, NOZOMI HOSODA<sup>1,2</sup>, MASAHIRO ISHII<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Kitasato University School of Medicine, Kanagawa  
<sup>2</sup> Sagami-hara Ryouikuen Institute for Severe Motor and Intellectual Disabilities, Kanagawa
- P-027 Two siblings with neurofibromatosis type 1 associated with precocious puberty**  
MAKO AGO<sup>\*1</sup>, TAKESHI TAKETANI<sup>2</sup>, KAZUKO KISHI<sup>1</sup>, SEIJI YAMAGUCHI<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Shimane University Faculty of Medicine, Izumo, Shimane  
<sup>2</sup> Division of Blood Transfusion, Shimane University Hospital, Izumo, Shimane
- P-028 MRI T2 hyperintensities in the diagnosis of NF1**  
YOICHI ONO<sup>\*</sup>, YOSHIHIRO MAEGAKI, KOUSAKU OHNO  
Division of Child neurology, Tottori university, Yonago, japan
- P-029 A case of Hypomelanosis of Ito with neuroradiological findings of Leukodystrophy**  
NORIKO KOMATU<sup>\*</sup>, EIJI NAKANO, SHINJIRO AKABOSHI  
Department of Pediatrics, National Hospital Organization Tottori Medical Center, Tottori
- P-030 Probability of Accelerated Myelination in Early Infantile Sturge-Weber Syndrome**  
KEN ARAYA<sup>\*1</sup>, YOSHIKO MORITA<sup>1</sup>, YUKIHIRO KITAI<sup>1</sup>, KOJI TOMINAGA<sup>1</sup>, KURIKO SHIMONO<sup>1</sup>, TAKESHI OKINAGA<sup>1</sup>, IKUKO MOHRI<sup>1,2</sup>, NORIO SAKAI<sup>1</sup>, MASAOKO TANIIE<sup>1,2</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka  
<sup>2</sup> Molecular Research Center for Children's Mental Development, Osaka University Graduate School of Medicine, Osaka

## metabolic disorder 1 (mitochondrial disease)

- P-031 A novel ND3 mutation with isolated complex I deficiency causes bilateral striatal necrosis**  
SHINOBU FUKUMURA<sup>\*1</sup>, NOBUTADA TACHI<sup>2</sup>, AKIRA OHTAKE<sup>3</sup>  
<sup>1</sup> The Department of Pediatrics, Kushiro City General Hospital, Hokkaido  
<sup>2</sup> Sapporo Medical University School of Health Sciences, Sapporo  
<sup>3</sup> The Department of Pediatrics, Saitama Medical University, Saitama
- P-032 A case of Leigh disease decreased activity of complex I by BN-PAGE**  
MASAYUKI NAKASHIMA<sup>\*1</sup>, TOYOJIRO MATSUIISHI<sup>2</sup>, MAKOTO YOSHINO<sup>2</sup>, YASUTOSHI KOGA<sup>2</sup>, YUSHIRO YAMASHITA<sup>2</sup>, ETSUO NAITO<sup>3</sup>, AKIRA OHTAKE<sup>4</sup>, MASATO MORI<sup>5</sup>  
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<sup>3</sup> Department of Pediatrics Hinomine Medical and Rehabilitation Center, Komatsushima  
<sup>4</sup> Department of Pediatrics Saitama Medical University, Moroyama  
<sup>5</sup> Department of Pediatrics Jichi Medical University, Shimotsuke
- P-033 A case of Leigh syndrome with recurrent pancreatitis**  
AZUSA OSHIRO<sup>\*</sup>, KYOMI HIRAYASU, SATOSHI OSHIRO, YUKIKATSU NAKADA  
Okinawa Seishi Ryougoen

- P-034 The second Japanese case report of Leigh encephalopathy with mitochondrial DNA 13094 mutation**  
 TARO MATSUOKA\*<sup>1</sup>, KOJI TSUCHIYA<sup>1</sup>, AKIRA SUDO<sup>2</sup>, YUICHI GOTO<sup>3</sup>  
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<sup>3</sup> The Institute of Neuroscience, NCNP
- P-035 Detection of mitochondrial DNA mutations in complex deficiency**  
 MASATO MORI\*<sup>1</sup>, TAMAKO GOTOH<sup>1</sup>, AKIRA OHTAKE<sup>2</sup>, MARIKO MOMOI<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Jichi Medical University  
<sup>2</sup> Department of Pediatrics, Saitama Medical School
- P-036 A case of MELAS diagnosed at low birth weight infant follow-up clinic**  
 MINAKO KIHARA\*<sup>1</sup>, NOBUTO MITSUFUJI<sup>1</sup>, MASAHARU MOROTO<sup>2</sup>  
<sup>1</sup> The Department of neonatology, Kyoto First Red Cross Hospital  
<sup>2</sup> The Department of Pediatricus, Kyoto First Red Cross Hospital
- P-037 A case of mitochondrial cytopathies**  
 SHINYA KOIZUMI\*, TAKAYUKI HATORI, OSAMU FUJINO  
 Department of Pediatrics, Nippon Medical School Chiba Hokusoh Hospital, Inba, Chiba
- P-038 The effect of ketone formula for five patients suffering serum hyperlactate and hyperpiruvate .**  
 KAN TAKAHASHI\*<sup>1</sup>, ATSUSHI SATOU<sup>1</sup>, MASAKAZU MIMAKI<sup>1</sup>, AKIRA OKA<sup>1</sup>, YUICHI GOTO<sup>2</sup>,  
 MASASHI MIZUGUCHI<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Graduate School of Medicine, The University of Tokyo, Tokyo  
<sup>2</sup> National Center of Neurology and Psychology, Tokyo  
<sup>3</sup> Department of developmental medicine, The University of Tokyo, Tokyo
- P-039 A case of leukoencephalopathy with brainstem and spinal cord involvement and high lactate**  
 ERI TAKESHITA\*<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, YOSHIAKI SAITO<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>,  
 KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, YUICHI GOTO<sup>1,2</sup>  
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<sup>2</sup> Department of Mental Retardation and Birth Defect Reserch, National Institute of Neuroscience, National  
 Center of Neurology and Psychiatry, Tokyo
- P-040 A case of Barth syndrome with neonatal acute metabolic decompensation**  
 HIROYUKI SATAKE\*<sup>1</sup>, KEIJI SOEIJANTO<sup>1</sup>, KENJIRO GONDO<sup>1</sup>, TOSHIO HANAI<sup>1</sup>, OSAMU  
 SAKAMOTO<sup>2</sup>  
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<sup>2</sup> The Department of Pediatrics, Tohoku University School of Medicine, Miyagi
- P-041 A case with Leber hereditary optic neuropathy mutation**  
 KOJI TSUCHIYA\*<sup>1</sup>, TARO MATSUOKA<sup>1</sup>, YUICHI GOTO<sup>2</sup>  
<sup>1</sup> Toyonaka Municipal Hospital  
<sup>2</sup> National Institute of Neuroscience, NCNP
- P-042 A case of mitochondrial DNA depletion syndrome**  
 HESHAM MONTASER\*<sup>1</sup>, YOSHIHIRO MAEGAKI<sup>1</sup>, KOUSAKU OHNO<sup>1</sup>, AKIRA OHTAKE<sup>2</sup>  
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<sup>2</sup> Department of Pediatrics, Saitama Medical University

## metabolic disorder 2(amino acid · lysosome)

- P-043 A case of maternal phenylketonuria**  
 HIROSHI ISUMI\*  
 hagi civil hospital, Hagi
- P-044 A case of non-ketotic hyperglycinemia mimicking cerebral palsy after meningitis.**  
 YU TSUYUSAKI\*<sup>1</sup>, HITOSHI OSAKA<sup>1</sup>, ATSUSHI TAKAGI<sup>1</sup>, MEGUMI TSUJI<sup>1</sup>, KIYOKO SAMESHIMA<sup>1</sup>,  
 MIZUE IAI<sup>1</sup>, SUMIMASA YAMASHITA<sup>1</sup>, SHIGEO KURE<sup>2</sup>  
<sup>1</sup> Department of Neurology, Kanagawa Children's Medical Center, Yokohama  
<sup>2</sup> Department of Pediatrics, Graduate School of Medicine, Tohoku University, Sendai

- P-045 The case of congenital disorders of glycosylation type II with hypocupremia.**  
 NAOKI ANDO\*<sup>1</sup>, YOKO NAKASHIMA<sup>1</sup>, TOHRU OKANISHI<sup>1</sup>, SATORU KOBAYASHI<sup>1</sup>, TETSUYA ITO<sup>1</sup>,  
 ISAO YUASA<sup>2</sup>, KOUSAKU OHNO<sup>3</sup>, HAJIME TOGARI<sup>1</sup>  
<sup>1</sup> Department of Pediatrics and Neonatology, Nagoya City University, Graduates School of Medical Sciences,  
 Nagoya  
<sup>2</sup> Division of Legal Medicine, Faculty of Medicine, Tottori University  
<sup>3</sup> Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University
- P-046 A case of Niemann-Pick type C**  
 SHIGEHIRO NAGAI\*<sup>1</sup>, YUMI FUJIHARA<sup>1</sup>, TOMOKO KIRINO<sup>1</sup>, KUNIAKI FUKUDA<sup>2</sup>, SHOICHI ENDO<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, National Kagawa Children's Hospital, Zentsuji, Kagawa  
<sup>2</sup> The Department of Neurology, National Kagawa Children's Hospital, Zentsuji, Kagawa
- P-047 Problems and correspondence of the home medical care in the metachromatic leukodystrophy patient**  
 TAKAHITO INOUE\*<sup>1</sup>, MICHITKA YONEKURA<sup>1</sup>, TAKAKO FUJITA<sup>1</sup>, YUKIKO IHARA<sup>1</sup>, HIROSHI  
 IDEGUCHI<sup>1</sup>, SAWA YASUMOTO<sup>1</sup>, SHINICHI HIROSE<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Fukuoka University, Fukuoka  
<sup>2</sup> Department of Thoracic, Endocrine and Pediatric Surgery, Fukuoka University, Fukuoka
- P-048 Successful treatment by increasing doses of the replaced enzyme in a case with type2 Gaucher disease**  
 NATSUKO ARAI\*, MITSUGU UEMATSU, YU ABE, NAOMI FUKUYO, KEISUKE WAKUSAWA, ATSUO  
 KIKUCHI, OSAMU SAKAMOTO, TOSHIHIRO OHURA, SHIGERU TSUCHIYA  
 Tohoku University Hospital, Miyagi
- P-049 Hydrocephalus and calcification of the aorta and heart valves in a case with type 3 Gaucher disease**  
 RIKA HIRAIWA\*<sup>1</sup>, HISAYUKI HIRAIWA<sup>1</sup>, YOSHIHIRO MAEGAKI<sup>2</sup>, EIJI NANBA<sup>3</sup>, KOUSAKU OHNO<sup>2</sup>  
<sup>1</sup> Eastern Shimane Rehabilitation Hospital  
<sup>2</sup> Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago  
<sup>3</sup> Division of Functional Genomics, Research Center for Bioscience and Technology, Tottori University, Yonago
- P-050 Efficacies of Enzyme Replacement Therapy in two patients with MPS typeII, receiving NPPV therapy**  
 SHUJI MATSUI\*, NOBUYUKI TAKECHI, MASUKO FUNAHASHI, YASUYUKI SUZUKI, NORIO  
 SAKURAGAWA  
 Tokyo children's Rehabilitation Hospital, Tokyo
- P-051 A case of MucopolipidosisIII with craniosynostosis**  
 KOJI ORII\*<sup>1</sup>, NORIO SAKAI<sup>2</sup>, TAKANOBU OTOMO<sup>2</sup>, TADAO ORII<sup>3</sup>, RYOSUKE MIURA<sup>1</sup>, ATSUSHI  
 TERAZAWA<sup>1</sup>, ASUKA IWAI<sup>1</sup>, REIKO ITO<sup>1</sup>, ATSUSHI IMAMURA<sup>1</sup>  
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<sup>2</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka  
<sup>3</sup> Emeritus Professor, Gifu University

## metabolic disorder 3(peroxisome · metal)

- P-052 A case of Zellweger syndrome with PEX14 mutation**  
 MITSUGU UEMATSU\*<sup>1</sup>, NAOMI FUKUYO<sup>1</sup>, KEISUKE WAKUSAWA<sup>1</sup>, ATSUO KIKUCHI<sup>1</sup>, TOUJYOU  
 NAKAYAMA<sup>1</sup>, RIE TSUBURAYA<sup>1</sup>, YUU ABE<sup>1</sup>, OSAMU SAKAMOTO<sup>1</sup>, TOSHIHIRO OOURA<sup>2</sup>,  
 SHIGERU TSUCHIYA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Tohoku University Graduate School of Medicine, Sendai  
<sup>2</sup> Department of Pediatrics, Sendai City Hospital
- P-053 A Case of D-Bifunctional Protein Deficiency**  
 TETSUO KUBOTA\*<sup>1</sup>, TOSHIHIKO SUZUKI<sup>1</sup>, HIDEYUKI OE<sup>1</sup>, HIROYUKI KIDOKORO<sup>1</sup>, TAMIKO  
 NEGORO<sup>1,2</sup>, NOBUYUKI SHIMOZAWA<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Anjo Kosei Hospital, Anjo  
<sup>2</sup> Department of Human Welfare, Okazaki Women's Junior College, Okazaki  
<sup>3</sup> Life Science Research Center, Gifu University, Gifu

- P-054 Childhood / Adolescent Cerebral Adrenoleukodystrophy with auditory agnosia as an initial symptom**  
 WAKANA FURUSHIMA<sup>\*1</sup>, MASAKO NAKAMURA<sup>1,3</sup>, YUKI INOUE<sup>1</sup>, ATSUKO GUNJI<sup>1</sup>, MASUMI INAGAKI<sup>1</sup>, MAKIKO KAGA<sup>1</sup>, YASUYUKI SUZUKI<sup>4</sup>  
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<sup>2</sup> Department of Pediatrics, Tokyo Medical and Dental University, Tokyo  
<sup>3</sup> Department of Otolaryngology, Faculty of Medicine, Tokyo University  
<sup>4</sup> Medical Education Development Center, Gifu University
- P-055 Neuropathy following umbilical cord blood transplantation for a patient with adrenoleukodystrophy**  
 MINORU SHIBATA<sup>\*</sup>, TOMONARI AWAYA, TAKEO KATOU, YASUNARI YAMANAKA  
 The Department of Pediatrics, Faculty of Medicine, Kyoto University, Kyoto
- P-056 Reduced-intensity stem cell transplantation for the treatment of pediatric adrenoleukodystrophy**  
 MICHIO OZEKI<sup>\*1</sup>, MICHINORI FUNATO<sup>1</sup>, KENJI ORII<sup>1</sup>, TAKAHIDE TERAMOTO<sup>1</sup>, ZENICHIROU KATO<sup>1</sup>, TOSHIYUKI FUKAO<sup>1</sup>, NAOMI KONDO<sup>1</sup>, NOBUYUKI SHIMOZAWA<sup>2</sup>, YASUYUKI SUZUKI<sup>3</sup>  
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<sup>2</sup> The Division of Genomics Research, Life Science Reserch Center, Gifu University Graduate School of Medicine, Gifu  
<sup>3</sup> Medical Education Development Center, Gifu University Graduate School of Medicine, Gifu
- P-057 Pathophysiology of the transient temporal lobe lesion in a patient with Menkes disease**  
 HIROMICHI ITO<sup>\*1</sup>, KENJI MORI<sup>2</sup>, ETSUO NAITO<sup>3</sup>, MASAFUMI HARADA<sup>4</sup>, SHOJI KAGAMI<sup>2</sup>  
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<sup>2</sup> Department of Pediatrics, University of Tokushima, Tokushima  
<sup>3</sup> Division of Pediatrics, Japanese Red Cross Tokushima Hinomine Rehabilitation Center for People with Disabilities, Tokushima  
<sup>4</sup> Department of Radiologic Technology, University of Tokushima, Tokushima
- P-058 An autism patient with Wilson disease**  
 NORIKAZU SHIMIZU<sup>\*</sup>, KIYOTO NASUNO, TSUGUTOSHI AOKI  
 Department of Pediatrics, Toho University School of Medicine, Ohashi Medical Center, Tokyo
- P-059 Combination therapy using trientine and zinc for severe neurological type of Wilson disease**  
 HIROAKI NAKAMURA<sup>\*</sup>, NORIKAZU SHIMIZU, TSUGUTOSHI AOKI  
 The second Department of Pediatrics, Toho University school of medicine, Tokyo
- P-060 Predominant cerebellar ataxia in a patient with neurological Wilson's disease**  
 KENTARO SHIRAI<sup>\*1</sup>, KEISUKE NAKAJIMA<sup>2</sup>, AKIMITU WATANABE<sup>2</sup>, YUTAKA KAWANO<sup>3</sup>, MASA HARU HAYASI<sup>4</sup>  
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<sup>2</sup> Department of Pediatrics, Tsuchiura Kyodo General Hospital, Tsuchiura, Ibaraki  
<sup>3</sup> Department of Pediatrics, Yokohama city Minato red cross hospital, Yokohama  
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## developmental disorder 1 (support system)

- P-061 Transition of psychological tests and consultation in general hospital pediatrics department**  
 AKIKO HAIBARA<sup>\*1</sup>, KEISUKE NAKAJIMA<sup>1</sup>, AKIMITSU WATANABE<sup>1</sup>, YOUKO TSUNODA<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Tsuchiura Kyodo General Hospital, Ibaraki  
<sup>2</sup> Clinical Psychology Section, Tsuchiura Kyodo General Hospital, Ibaraki
- P-062 A characteristic of children referred by the educational counseling center**  
 TOSHIHIRO Horiguchi<sup>\*1</sup>, KAORI KON<sup>2</sup>  
<sup>1</sup> Department of Social Psychiatry, National Institute of Mental Health, NCNP, Tokyo  
<sup>2</sup> Kaishundo-Kaori Children's Clinic, Chiba
- P-063 A hospital questionnaire survey regarding to the supporting network for developmental disorders.**  
 OSAMU MIYAKE<sup>\*</sup>  
 Takatsuki General Hospital, Osaka

**P-064 Questionnaire study about the network for children with developmental disability at Osaka prefecture**

MAKOTO NABETANI\*<sup>1</sup>, KIYOTAKA MURAKAMI<sup>2,3</sup>, MASAHISA FUNATO<sup>1,2</sup>, OSAMU MIYAKE<sup>2,4</sup>, TOSHIO SAITO<sup>2,5</sup>, TAE-JANG KIM<sup>2,6</sup>, TOSISABUROU NAGAI<sup>2,7</sup>, JYUNNKO TANAKA<sup>2,8</sup>, EIJI WAKAMIYA<sup>2,9</sup>

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<sup>2</sup> Osaka Medical Doctor Society

<sup>3</sup> Nakano children hospital

<sup>4</sup> Takatsuki hospital

<sup>5</sup> National center of Toneyama hospital

<sup>6</sup> Osaka city Sumiyoshi hospital

<sup>7</sup> Osaka University, Faculty of Medicine

<sup>8</sup> Tanaka-Kita-Umeda clinic

<sup>9</sup> Aino College

**P-065 Short term development of Autistic children taking HAC program**

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The Institute of Home Program for Autistic Children, Tokyo

**P-066 Changes of stress in children with PDD after sensory integration therapy**

NAOMITSU SUZUKI\*<sup>1</sup>, TOSHIE KINAMARI<sup>2</sup>

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<sup>2</sup> Division of Rehabilitation, Namegata District General Hospital

**P-067 Behavioral changes by social skill training: a two-dimensional analysis**

ATSUKO GUNJI\*<sup>1</sup>, RYUSUKE SAKUMA<sup>1,2</sup>, TAKA AKI GOTO<sup>1,3</sup>, TOSHIHIDE KOIKE<sup>1,3</sup>, YOSUKE KITA<sup>1,4,5</sup>, MAKIKO KAGA<sup>1</sup>, MASUMI INAGAKI<sup>1</sup>

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<sup>3</sup> Tokyo Gakugei University, Koganei

<sup>4</sup> Graduate School of Education, Tohoku University, Sendai

<sup>5</sup> Research Fellow of the Japan Society for the Promotion of Science, Tokyo

**P-068 Comorbidities of developmental disorders**

YURI NARITA\*<sup>1</sup>, MAI KURODA<sup>1</sup>, SHIN-ICHIRO HAMANO<sup>2</sup>

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<sup>2</sup> Division of Neurology, Saitama Children's Medical Center, Saitama

**P-069 Mental Health Problems in Parents of Children with Developmental Disabilities: A Facility Based Study**

TOMOKA KOBAYASHI\*<sup>1</sup>, MASUMI INAGAKI<sup>1</sup>, YUKI INOUE<sup>1</sup>, MAKIKO KAGA<sup>1</sup>, HITOSHI HARA<sup>3</sup>

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<sup>2</sup> Department of Pediatrics, Social Health Insurance Central General Hospital, Tokyo

<sup>3</sup> Yokohama Central Habilitation Center for Children, Yokohama

**P-070 Cost and payments in developmental disabilities medicine at pediatric outpatient offices**

MANAMI KODAKA\*<sup>1</sup>, TOSHIHIRO Horiguchi<sup>2</sup>, AKIRA UNO<sup>3</sup>, CHIEKO AKIYAMA<sup>4</sup>, KAORI KON<sup>5</sup>

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<sup>5</sup> Kaishundo-Kaori Children's Clinic

## psychiatric and behavioral disorder

**P-071 Narcolepsy with characteristic behavior of ADHD or PDD: a case report**

ATSUSHI YOKOYAMA\*<sup>1</sup>, AKIKO KONDOU<sup>1</sup>, YOSHIHIRO MAEGAKI<sup>1</sup>, YUKINORI ANDOU<sup>2</sup>, TAKASHI KANBAYASHI<sup>3</sup>, KOUSAKU OHNO<sup>1</sup>

<sup>1</sup> Divisions of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, tottori

<sup>2</sup> ANDOU child clinic, shimane

<sup>3</sup> Divisions of psychiatry, Faculty of Medicine, Akita University, Akita



- P-072 3 patients of gait disorder diagnosed with conversion disorder**  
AKIKO KOYAMA\*, TAKAFUMI SHIMADA, HIDEKI HOSHINO, MASAYA KUBOTA  
Department of Neurology, National Center for Child Health and Development, Tokyo
- P-073 Characteristic results of subtests of WISC-3 in children with selective mutism**  
SEIICHIRO YOSHIOKA\*, KUMIKO MATSUWAKE, CHIHIRO SAWAI, YUKO SAKAUE, MIKA IWAMI,  
MASAKO OKADA, TOMOYUKI TAKANO, YOSHIHIRO TAKEUCHI  
Department of Pediatrics, Shiga University of Medical Science, Shiga
- P-074 14-years-old-boy with severe dissociative and conversion disorders**  
YUKO TOMONOH\*<sup>1</sup>, NARIO INOUE<sup>2</sup>, YUKIKO IHARA<sup>3</sup>, TAKESHI KANAUMI<sup>1,3</sup>, TAKAKO FUJITA<sup>1,3</sup>,  
TAKAHITO INOUE<sup>3</sup>, SAWA YASUMOTO<sup>3</sup>, SHINCHI HIROSE<sup>3</sup>  
<sup>1</sup> Nakatsu Municipal Hospital, Nakatsu  
<sup>2</sup> Inoue children's clinic, Nakatsu  
<sup>3</sup> Department of Pediatrics, Fukuoka University School of Medicine
- P-075 Clinical Study of children's behavioral and psychiatric problems about Visit to School**  
TETSUJI KUBAGAWA\*<sup>1</sup>, JUNICHI FURUSHO<sup>2</sup>  
<sup>1</sup> Division of Psychiatry, Kawasaki Municipal Hospital  
<sup>2</sup> College of Human Education, Department of Education, Aoyama University
- P-076 A study on cases exhibiting feeding disorder**  
MASAFUMI SANEFUJI\*, RYUTARO KIRA, HIROYUKI TORISU, YUI YAMAGUCHI, YOSHITO  
ISHIZAKI, SOO-YOUNG LEE, TOSHIRO HARA  
Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka
- P-077 The study of the sleep pattern of the primary schoolchild using the sleep logs and JCS questionnaire**  
MIZUE IWASAKI\*<sup>1</sup>, TOYOJIRO MATSUISHI<sup>2</sup>  
<sup>1</sup> Research Institute of Science and Technology for Society Japan Science and Technology Agency  
<sup>2</sup> Kurume University School of Medicine
- P-078 A questionnaire about the situation of the sleep of the severe motor and intellectual disabilities**  
TOMOMI IKEDA\*<sup>1</sup>, TOSHISABUROU NAGAI<sup>2,3</sup>, MASAKO TANIKE<sup>3</sup>, IKUKO MOURI<sup>3</sup>, KUMI KATO<sup>3</sup>  
<sup>1</sup> Hyogo University, Hyogo  
<sup>2</sup> Division of health sciences, Osaka University, Osaka  
<sup>3</sup> Osaka University, Osaka
- P-079 analysis of relation with sleep and growth hormone using polysomnography**  
SHINTARO YAMASHITA\*<sup>1</sup>, SHINICHI NIJIMA<sup>1</sup>, MITSURU IKENO<sup>2</sup>, SHINPEI ABE<sup>2</sup>, AKIHISA  
OKUMURA<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Juntendo University School of Medicine Nerima Hospital, Nerima-ku, Tokyo  
<sup>2</sup> Department of Pediatrics and Adolescent Medicine, Juntendo University School of Medicine, Bunkyo-ku,  
Tokyo
- P-080 Two cases of infantile Obsessive-Compulsive Disorder.**  
MASAYA KUBOTA\*  
The division of Neurology, National Center for Child Health and Development, Tokyo

## epilepsy · seizure 1 (clinical study)

- P-081 Benign neonatal sleep myoclonus : Two affected patients in the same family**  
TATSUYUKI SOKODA\*, KUMIKO MATSUWAKE, SEIICHIRO YOSHIOKA, TOMOYUKI TAKANO,  
YOSHIHIRO TAKEUCHI  
The Department of Pediatrics, Shiga University of Medical Science, Shiga
- P-082 A familial case of Paroxysmal kinesigenic choreoathetosis and temporal lobe epilepsy**  
TAKESHI OKINAGA\*<sup>1</sup>, YOSHIKO MORITA<sup>1</sup>, MASAHIRO KITAI<sup>1</sup>, KEN ARAYA<sup>1</sup>, KOUJI TOMINAGA<sup>1</sup>,  
KURIKO SHIMONO<sup>1</sup>, YASUHISA TORIBE<sup>2</sup>, TOSHISABUROU NAGAI<sup>3</sup>, KEIICHI OZONO<sup>1</sup>  
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<sup>2</sup> Osama medical center and research institute for maternal and child health  
<sup>3</sup> :Welth care, University of Osaka, Osaka

- P-083 Benign neonatal convulsions harboring a de novo KCNQ2 mutation followed by BECTS**  
 ATSUSHI ISHII<sup>\*1</sup>, GORYU FUKUMA<sup>1</sup>, TASUKU MIYAJIMA<sup>2</sup>, YOSHIO MAKITA<sup>3</sup>, SAWA YASUMOTO<sup>1</sup>,  
 TAKAHITO INOUE<sup>1</sup>, SUNAO KANEKO<sup>4</sup>, SHINICHI HIROSE<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka  
<sup>2</sup> Department of Pediatrics, Tokyo Medical University, Tokyo  
<sup>3</sup> Center of Education, Asahikawa Medical College, Asahikawa  
<sup>4</sup> Department of Neuropsychiatry, School of Medicine, Hirosaki University, Hirosaki
- P-084 Metabolic acidosis with Sever myoclonic epilepsy in infant**  
 TAKAFUMI SHIMADA<sup>\*1</sup>, HIDEKI HOSHINO<sup>1</sup>, AKIKO KOYAMA<sup>1</sup>, SHIN-ICHI HIROSE<sup>2</sup>, MASAYA  
 KUBOTA<sup>1</sup>  
<sup>1</sup> Department of child neurology, National Center for Child Health and Development, Tokyo  
<sup>2</sup> Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka
- P-085 A case of epilepsy with grand mal on awakening complicating orthostatic dysregulation**  
 TAKAKO FUJITA<sup>\*</sup>, TAKAHITO INOUE, NORIKO NAKAMURA, YUKIKO IHARA, YUKO TOMONOH,  
 SHINYA NINOMIYA, HIROSHI IDEGUCHI, SAWA YASUMOTO, SHINICHI HIROSE  
 Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka
- P-086 A case of intractable partial epilepsy successfully treated with ethosuximide**  
 NAOMI KIOKA<sup>\*</sup>, KOICHI MINAMI, AKIRA TAMURA, NORISHIGE YOSHIKAWA  
 Department of Pediatrics, Wakayama Medical University, Wakayama
- P-087 Long-term oral administration of lidocaine jelly to a patient with lidocaine-dependent epilepsy.**  
 IKUHIRO INAMI<sup>\*1</sup>, YUKIO SAWAISHI<sup>2</sup>, TAMAMI YANO<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Hiraka general hospital, Akita  
<sup>2</sup> Department of Pediatrics, Akita University School of Medicine
- P-088 A retrospective study of 18 cases of convulsion with mild gastroenteritis**  
 MASAKO NAGASHIMA<sup>\*</sup>, MASATO MORI, TOKIKO FUKUDA, TAKANORI YAMAGATA, HIDEO  
 SUGIE, MARIKO MOMOI  
 Department of Pediatrics, Jichi Medical University
- P-089 Patients with convulsion with mild gastroenteritis are accompanied by acidosis and hyperuricemia**  
 YUKI TSUJITA<sup>\*</sup>, YASUKO NAKAMURA, YUJI TAKIZAWA, HIROSHI MATSUMOTO, OSAMU  
 KOBAYASHI  
 Department of Pediatrics, National Defence Medical College
- P-090 EEG findings of pre and post Measles and Rubella combined vaccination in epileptic children**  
 KUNIAKI IYODA<sup>\*1</sup>, KAZUNORI OGAWA<sup>1</sup>, TOMIO OKAZAKI<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, Hiroshima City Hospital, Hiroshima  
<sup>2</sup> Department of Training school for Nursing, Kure kyousai Hospital
- P-091 A study for inattention and hyperactivity accompanied with epilepsy in school age children**  
 TSUKASA OHASHI<sup>\*</sup>, JUN TOHYAMA, NORIYUKI AKASAKA, YU KOBAYASHI  
 Department of Pediatrics, Nishi-Niigata Chuo Naitional Hospital, Niigata
- P-092 An adorescent girl with partial epilepsy who showed pseudo seizure**  
 MIHO TATEISHI<sup>\*</sup>, HIDEHIKO KOYAMA, HIROSHI WADA, MAKOTO NABETANI, MASAHISA  
 FUNATO  
 Yodogawa Christian Hospital, Osaka

## epilepsy · seizure 2 (treatment)

- P-093 Use of Topiramate for epilepsy in childhood**  
 AKIO FUJINE<sup>\*</sup>, MASATO MORI, TOKIKO FUKUDA, TAKANORI YAMAGATA, HIDEO SUGIE,  
 MARIKO MOMOI  
 Department of pediatrics, Jichi Medical University, Tochigi
- P-094 Experience of Topiramate in Matsudo Clinic**  
 TOMOHIRO NAKAYAMA<sup>\*1</sup>, HIROSHI MARUYAMA<sup>1</sup>, SACHIKO KANEMATSU<sup>1</sup>, MAKIKO OSAWA<sup>2</sup>  
<sup>1</sup> Matsudo Clinic  
<sup>2</sup> Department of Pediatrics, Tokyo Women's Medical University, 8-1, Kawada-cho, Shinjuku-ku, Tokyo

- P-095 Efficacy of topiramate against intractable epilepsy**  
MASAO ADACHI\*, ATSUSHI NISHIYAMA, MASANORI MURASE, AKIHITO ISHIDA  
Department of Pediatrics, Kakogawa Municipal Hospital, Hyogo
- P-096 Clinical effect, and change of body composition and REE in patients treated with Topiramate**  
YUKIHIKO FUJITA\*, AYUMI ENDO, WAKAKO ISHII, NORIKO TOMIO, CHIKAKO ARAKAWA,  
TATSUORYUTARO KOHIRA, TATSUO FUCHIGAMI, HIDEO MUGISHIMA  
Department of Pediatrics and Child Health, Nihon University School of Medicine, Tokyo
- P-097 Gabapentin for Childhood Epilepsy**  
MOTOKO INOUE\*<sup>1</sup>, TAKANORI YAMAGATA<sup>1</sup>, MASATO MORI<sup>1</sup>, AKIO FUJINE<sup>1</sup>, TOMOYUKI ISHII<sup>1</sup>,  
TOKIKO FUKUDA<sup>1</sup>, TAMAKO GOTO<sup>2</sup>, HIDEO SUGIE<sup>1</sup>, MARIKO MOMOI<sup>1</sup>  
<sup>1</sup> The Department of Pediatrics, Jichi Medical University, Tochigi  
<sup>2</sup> Saitama Medical Center, Jichi Medical University, Saitama
- P-098 A study of efficacy of gabapentin and topiramate for intractable epilepsy in children**  
KAORU IMAI\*, HIROKAZU OGUNI, YOSHIKO HIRANO, MASAKO SAKAUCHI, MAKIKO OSAWA  
Department of Pediatrics, Tokyo Women's Medical University
- P-099 Effect of gabapentin and topiramate to intractable epilepsy in childhood**  
TOSHIKI YOKOI\*<sup>1</sup>, HIDEJI HATTORI<sup>1</sup>, SATORU SAKUMA<sup>2</sup>, KATSUJI TANAKA<sup>3</sup>, OSAMU  
MATSUOKA<sup>1</sup>, TSUNEKAZU YAMANO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka  
<sup>2</sup> Nishinomiya Municipal Central Hospital, Nishinomiya  
<sup>3</sup> Sunago Ryouikuen, Nishinomiya

## epilepsy · seizure 3 (treatment)

- P-100 The effectiveness of gamma globulin treatment for intractable spasms**  
YUKIHIRO KITAI\*<sup>1</sup>, YOSHIKO MORITA<sup>1</sup>, KEN ARAYA<sup>1</sup>, KOHJI TOMINAGA<sup>1</sup>, KURIKO SHIMONO<sup>1</sup>,  
TAKESHI OKINAGA<sup>1</sup>, TOSHISABUROU NAGAI<sup>2</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> Osaka University Graduate school of Medicine, Faculty of Medicine, Division of Pediatrics, Osaka  
<sup>2</sup> Osaka University Graduate school of Medicine, Division of Health Science, Osaka
- P-101 Reserch of prognosis of West syndrome after epileptic surgery**  
YOSHIKO MORITA\*<sup>1</sup>, KURIKO SHIMONO<sup>1</sup>, YUKIHIRO KITAI<sup>1</sup>, KEN ARAYA<sup>1</sup>, KOJI TOMINAGA<sup>1</sup>,  
TAKESHI OKINAGA<sup>1</sup>, HARUHIKO KIJIMA<sup>2</sup>, AMAMI KATOH<sup>3</sup>, MASAKO TANIIE<sup>4</sup>, TOSHISABURO  
NAGAI<sup>5</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> The Department of Pediatrics, University of Osaka Graduate School of Medicine, Osaka  
<sup>2</sup> The Department of Neurosurgery, University of Osaka Graduate School of Medicine, Osaka  
<sup>3</sup> The Department of Neurosurgery, Kinki University School of Medicine, Osaka  
<sup>4</sup> The Department of Mental Health and Environmental Effects Research, Molecular Research Center for  
Children's Mental Development Osaka University Graduate School of Medicine, Osaka  
<sup>5</sup> Osaka University Course of Health Science area of Nursing Science, Osaka
- P-102 The value of the short-term low dose ACTH therapy for West syndrome associated with lissencephaly**  
REIKI OYANAGI\*, TOSHIHIDE WATANABE, KIMIO MINAGAWA  
Department of Pediatrics, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo
- P-103 Long-term weekly ACTH therapy for age dependent epileptic encephalopathy**  
HITOSHI SEJIMA\*<sup>1</sup>, YOKO YOSHIKAWA<sup>2</sup>, YUKI HASEGAWA<sup>2</sup>, KAZUKO KISHI<sup>2</sup>, SEIJI YAMAGUCHI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Matsue Red Cross Hospital, Matsue  
<sup>2</sup> Department of Pediatrics, Shimane University, Faculty of Medicine
- P-104 Topiramate in children with symptomatic West syndrome**  
TOMOHIRO KUMADA\*, TOMOKO MIYAJIMA, NOBUSUKE KIMURA, NOZOMI ODA, HIDEKI  
SHIMOMURA, TATSUYA FUJII  
Department of Pediatrics, Shiga Medical Center for Children, Shiga

- P-105 Remarkable improvement of infantile intractable epilepsy by modified ketogenic diet; case report**  
 HIROKA TAKAHASHI<sup>\*1</sup>, KATSUMI IMAI<sup>1</sup>, CHIKAGE TAKENAMI<sup>2</sup>, RUMIKO TAKAYAMA<sup>1</sup>, JUN MINE<sup>1</sup>, SANAE OHYANI<sup>1</sup>, HIROKO IKEDA<sup>1</sup>, YUKO KUBOTA<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>1</sup>, YUSHI INOUE<sup>1</sup>, TATEKI FUJIWARA<sup>1</sup>  
<sup>1</sup> National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Disorders department of pediatric epilepsy  
<sup>2</sup> National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Disorders department of nutrition
- P-106 An Infant with Ohtahara Syndrome with Successful Seizure Reduction on Ketogenic Diet.**  
 MASAHIRO ISHII<sup>\*</sup>, MASAYUKI SHIMONO, AYAKO SENJYU, NAOKI SIOTA  
 The Department of Pediatrics, University of Occupational Environmental Health, Fukuoka
- P-107 A boy of epileptic spasms treated with leuprolide acetate**  
 NATSUKO HASHIMOTO<sup>\*1</sup>, KURIKO SHIMONO<sup>1</sup>, KATSUMI IMAI<sup>1,2</sup>, TAKESHI OKINAGA<sup>1</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka University Graduate School of Medicine  
<sup>2</sup> Shizuoka Institute of Epilepsy and Neurological Disorders

## infectious and autoimmune disease 1

- P-108 A nonspecific case of PANDAS**  
 TOMOMI HARAI<sup>\*</sup>, KAZUHISA HONGO, TAKASHI KURAMOTO, SEIKO FUJIKI, RYUJI KAGEYAMA, KAZUHI MIYA, CHIAKI TANAKA, TOSHIO MIYAWAKI  
 Department of Pediatrics Faculty of Medicine, University of Toyama, Toyama
- P-109 A case of Opsoclonus-polymyoclonia Syndrome treated by oral High-Dose Dexamethasone Pulses.**  
 MAKIKO INOUE<sup>\*</sup>, TOKIKO FUKUDA, AKIRA MORIMOTO, MASATO MORI, TAKANORI YAMAGATA, HIDEO SUGIE, MAKIKO MOMOI  
 Jichi Medical University, Department of Pediatrics, Tochigi
- P-110 Neuroblastoma associated with cerebellar ataxia without opsoclonus**  
 TOMOTAKA ORITSU<sup>\*1</sup>, SHINICHIRO HAMANO<sup>1</sup>, MOTOYUKI MINAMITANI<sup>1</sup>, MANABU TANAKA<sup>1</sup>, SATOSHI YOSHINARI<sup>1,2</sup>, KENJIRO KIKUCHI<sup>1,2</sup>, HIROYUKI IDA<sup>2</sup>  
<sup>1</sup> Neurology, Saitama Childrens Medical Center, Saitama  
<sup>2</sup> Pediatrics, The Jikei University School of Medicine
- P-111 The etiology in children with acute/subacute gait disturbance**  
 KAZUYA ITOMI<sup>\*</sup>, HIROKO KAKIZAWA  
 Department of Neurology, Aichi Children's Medical and Health Center, Obu
- P-112 Elevated serum and cerebrospinal fluid cytokines in anterior spinal artery syndrome: a case report**  
 ATSUKO YAMAMOTO<sup>\*1</sup>, SATOSHI ARAKI<sup>1</sup>, TOSHIHIKO NISHIDA<sup>1</sup>, TOMOMI OGATA<sup>2</sup>, NORIKO SAWAURA<sup>2</sup>, MASA HARU HAYASHI<sup>3</sup>, NAOYUKI TANUMA<sup>3</sup>, RIE MIYATA<sup>3</sup>  
<sup>1</sup> Department of Pediatrics and developmental biology, Tokyo medical and dental university, Tokyo  
<sup>2</sup> Department of pediatrics, Gunma university, Maebashi  
<sup>3</sup> Tokyo metropolitan institute for neuroscience, Tokyo
- P-113 The clinical image of autoantibodies to the glutamate receptor positive four cases**  
 YUKIKO IHARA<sup>\*1</sup>, YUUKO TOMONOU<sup>1</sup>, TKAKO FUJITA<sup>1</sup>, HIROSHI IDEGUCHI<sup>1</sup>, TAKAHITO INOUE<sup>1</sup>, SAWA YASUMOTO<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>2</sup>, SHINICHI HIROSE<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Faculty of Medicine, Fukuoka University  
<sup>2</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka
- P-114 Immunoglobulin Responsive Chronic Cerebellitis With Positive Glutamate Receptor E2 Antibody**  
 TSUYOSHI OOMI<sup>\*1</sup>, KUNIHITO TAMASHIRO<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>2</sup>  
<sup>1</sup> University of the Ryukyus Faculty of Medicine, Okinawa  
<sup>2</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka
- P-115 cereberal ataxia complicated somatoform disorder with positive gultamate receptor antibody**  
 DAISUKE USUI<sup>\*1</sup>, NAOMI MITSUDA<sup>1</sup>, TAKATOSI HOSOKAWA<sup>1</sup>, SUMITAKA DOUNO<sup>1</sup>, MIKIYA FUJIEDA<sup>1</sup>, HIROSI WAKIGUTI<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>2</sup>  
<sup>1</sup> Kochi medical school  
<sup>2</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders

## infectious and autoimmune disease 2 · pathology

- P-116 A Case of Schistosomal Myeloradiculopathy due to Schistosoma mansoni**  
TOMOYA TAKEUCHI\*<sup>1</sup>, TAKESHI TSUJI<sup>1</sup>, TORU KATO<sup>1</sup>, FUMIO HAYAKAWA<sup>1</sup>, KAZUYOSHI WATANABE<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, Okazaki City Hospital  
<sup>2</sup> Faculty of Medical Welfare, Aichi Shukutoku University, Nagoya, Aichi
- P-117 A nine years old boy noticed congenital CMV infection with late onset hearing loss.**  
MITSURU IKENO\*, AKIHISA OKUMURA, SHINPEI ABE, MASAKO SAITO, TOMOYUKI NAKAZAWA, TOSHIKI SHIMIZU  
Department of Pediatrics, Juntendo University School of Medicine, Tokyo
- P-118 Analysis of biomarkers in CSF of patients with bacterial meningitis**  
GAKU YAMANAKA\*, YU ISHIDA, SHINGO OANAA, HIROAKI IOI, CHIAKO ISHII, YUSUKE SUGANAMI, HISASHI KAWASHIMA, TASUKU MIYAJIMA, AKINORI HOSHIKA  
Department of Pediatrics, Tokyo Medical University, Tokyo
- P-119 A case with bacterial meningitis showed nystagmus due to acoustic nerve inflammation**  
KENJI ORII\*, TETSUJI TOKUMI, MICHINORI FUNATO, HIDENORI OHNISHI, TAKAHIDE TERAMOTO, ZENICHIRO KOTO, TOSHIYUKI FUKAO, NAOMI KONDO  
Department of pediatrics, Graduate school of Medicine, Gifu University, Gifu
- P-120 A case of holoprosencephaly with recurrent ARDS**  
TAKASHI ENOKIONO\*, TATSUYUKI OHTO, RYUTA TANAKA, RYO SUMAZAKI  
Departments of Pediatrics, Institute of Clinical Medicine, University of Tsukuba, Tsukuba
- P-121 Two cases of symptomatic West syndrome suffering from severe bronchiolitis due to RS virus infection**  
TSUKASA HIGUCHI\*, TETSUHIRO FUKUYAMA, MITSUO MOTOBAYASHI, YUKA MISAWA, FUMI ARAI, YUJI INABA  
The Department of Pediatrics, Shinshu University School of Medicine, Matsumoto
- P-122 Developmental changes of GABA in SIDS**  
YURI OZAWA\*<sup>1</sup>, SACHIO TAKASHIMA<sup>2</sup>, TAKESHI KANAUMI<sup>3</sup>, NAOKI UGA<sup>1</sup>  
<sup>1</sup> Department of Neonatology, Toho University School of Medicine, Tokyo  
<sup>2</sup> Yanagawa Institute for Development Disabilities, International University of Health and Welfare, Fukuoka  
<sup>3</sup> Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka
- P-123 An applicaton of layer-specific markers to normal and abnormal human brain**  
TAKASHI SAITO\*<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>, YOSHIKI SAITO<sup>1</sup>, KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, MASAYUKI ITOH<sup>2</sup>  
<sup>1</sup> National Center Hospital of Neurology and Psychiatry, Tokyo  
<sup>2</sup> National Institute of Neuroscience, Department of Mental Retardation and Birth Defect Research, Tokyo
- P-124 Morphological development of the human trochlear nucleus**  
KATSUYUKI YAMAGUCHI\*<sup>1</sup>  
<sup>1</sup> Department of Pathology, Dokkyo University School of Medicine, Tochigi  
<sup>2</sup> Department of Neuropediatrics, Southern Tohoku General Hospital
- P-125 Protective effect of melatonin against hypoxic injury of intraspinal 5-HT system in neonatal rats**  
HAJIME TANAKA\*<sup>1</sup>, SATORU TAKAHASHI<sup>1</sup>, NAO SUZUKI<sup>1</sup>, JUNKO OHINATA<sup>1</sup>, AKIKO ARAKI<sup>1</sup>, KAZUHIKO CHO<sup>2</sup>, KENJI FUJIEDA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Asahikawa Medical College, Asahikawa  
<sup>2</sup> Department of Pediatrics, Asahikawa Habilitation Center for Disabled Children, Asahikawa
- P-126 Age-dependent changes in serotonin levels of the Mecp2-null mouse brain**  
KENICHI ISODA\*<sup>1</sup>, FUMIHIRO MATSUI<sup>1</sup>, TATSUJI HASEGAWA<sup>1</sup>, TAKENORI TOZAWA<sup>1</sup>, AKIRA NISHIMURA<sup>1</sup>, MASAFUMI MORIMOTO<sup>1</sup>, KANJI YOSHIMOTO<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto  
<sup>2</sup> Department of Legal Medicine, Kyoto Prefectural University of Medicine, Kyoto

## epilepsy · seizure 4 (others)

- P-127 Conditional deletion of neuronal Cdk5 in developing forebrain results in neurodegeneration**  
SATORU TAKAHASHI<sup>\*1</sup>, NAO SUZUKI<sup>1</sup>, JUNKO OHINATA<sup>1</sup>, AKIKO ARAKI<sup>1</sup>, KENJI FUJIEDA<sup>1</sup>,  
ASHOK B. KULKARNI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Asahikawa Medical College, Asahikawa  
<sup>2</sup> National Institutes of Health, Bethesda, USA
- P-128 Usefulness of IMZ-SPECT for detecting epileptic focus in childhood focal epilepsies**  
KENTARO OKAMOTO<sup>\*</sup>, HIROAKI OGUNI, YOSHIKO HIRANO, MAKIKO OSAWA  
Department of Pediatrics, Tokyo Women's Medical University, Tokyo
- P-129 A case of symptomatic occipital lobe epilepsy with surgical treatment**  
NAOHITO ARII<sup>\*1</sup>, SHOICHI OYAMA<sup>2</sup>, YOSHITAKA IJIMA<sup>1</sup>  
<sup>1</sup> The Department of Pediatrics, Juntendo University Shizuoka Hospital, Shizuoka  
<sup>2</sup> The Department of Pediatrics, Saiseikai-Kawaguchi General Hospital, Saitama
- P-130 Development of Visual Cognitive Function and NIRS in Postsurgery Infants with Intractable Epilepsy**  
AYAKO MIYAHARA<sup>\*1</sup>, EIJI NAKAGAWA<sup>1</sup>, TSUKASA OOHASHI<sup>1</sup>, HIROSHI KOMETANI<sup>1</sup>, KEISUKE  
SAEKI<sup>1</sup>, YUTAKA NONODA<sup>1</sup>, YOSHIAKI SAITO<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, HIROHUMI KOMAKI<sup>1</sup>, KENJI  
SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, HIROKATA OHE<sup>2</sup>, ATSUKO GUNJI<sup>3</sup>, IWAOKOBAYASHI<sup>4</sup>  
<sup>1</sup> Department of Child Neurology, National Center Hospital of Neurology and Psychiatry, Tokyo  
<sup>2</sup> National Center Hospital of Neurology and Psychiatry, Tokyo  
<sup>3</sup> Department of Developmental Disorders, National Institute of Mental Health, NCNP, Tokyo  
<sup>4</sup> Center for the Research and Support of Educational Practice, Tokyo Gakugei University, Tokyo
- P-131 2 cases of angelman syndrome with non convulsive status epilepticus**  
SHINO SHIMADA<sup>\*1</sup>, TAKAFUMI SHIMADA<sup>2</sup>, AKIKO KOYAMA<sup>2</sup>, HIDEKI HOSHINO<sup>2</sup>, MASAYA  
KUBOTA<sup>2</sup>  
<sup>1</sup> National Center for Child Health and Development, Tokyo  
<sup>2</sup> National Center for Child Health and Development, Tokyo
- P-132 A case of Angelman Syndrome (Type 4) with photosensitivity**  
TATEO SUGIMOTO<sup>\*1</sup>, CHIHIRO SUGIMOTO<sup>1</sup>, SHINJI SAITOH<sup>3</sup>  
<sup>1</sup> SUGIMOTOS BARNKLINIK, Sasayama  
<sup>2</sup> The Department of Pediatrics, Kansai Medical University Otokoyama Hospital, Yawata  
<sup>3</sup> The Department of Pediatrics, Hokkaido University
- P-133 A Case of Glucose Transporter-1 Deficiency Syndrome without Ataxia and Developmental Delay**  
KOJI TOMINAGA<sup>\*1</sup>, YOSHIKO MORITA<sup>1</sup>, YUKIHIRO KITAI<sup>1</sup>, NATHUKO HASHIMOTO<sup>1</sup>, KEN  
ARAYA<sup>1</sup>, KURIKO SHIMONO<sup>1</sup>, TAKESHI OKINAGA<sup>1</sup>, KEIKO YANAGIHARA<sup>3</sup>, TOSHISABURO  
NAGAI<sup>2</sup>, KEIICHI OZONO<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka  
<sup>2</sup> Division of Health Sciences, Osaka University Graduate School of Medicine, Osaka  
<sup>3</sup> Department of Developmental Medicine, Research Institute, Osaka Medical Center for Maternal and Child  
Health, Osaka
- P-134 A case of repetitive febrile convulsion, diagnosed as infection-related antiphospholipid syndrome**  
DAI YAMASHIRO<sup>\*</sup>, HIDEAKI KANEMURA, KANJI SUGITA, MASAO AIHARA  
Department of Pediatrics, University of Yamanashi, Yamanashi
- P-135 A case of temporal lobe epilepsy in infant associated with diffuse astrocytoma**  
SETSUKO KANEKO<sup>\*1</sup>, ASTUKO YAMAMOTO<sup>2</sup>, SATOSHI ARAKI<sup>2</sup>, TAKETOSHI MAEHARA<sup>3</sup>,  
FUMIYO ONO<sup>1</sup>, NAOTO HIRAYANAGI<sup>1</sup>, MASAYUKI SHIMOHIRA<sup>1</sup>  
<sup>1</sup> Department of pediatrics, Kawaguchi Municipal Medical Center, Saitama  
<sup>2</sup> Department of Pediatrics, Tokyo Medical and Dental University, Tokyo  
<sup>3</sup> Department of Neurosurgery, Tokyo Medical and Dental University, Tokyo
- P-136 A Case of Epileptic Encephalopathy with Sturge-Weber Syndrome**  
KAZUYUKI YOTSUMATA<sup>\*</sup>  
Kagoshima City Hospital, Kagoshima
- P-137 Study of intractable epilepsy without mental retardation**  
FUMI TAKEUCHI<sup>\*</sup>, TAKATERU ISHITSU  
Kumamoto Saisyunsou Hospital, Kumamoto

## developmental disorder 8 (test)

- P-138 A study for medical examination in cohort study: Reevaluation based on diagnosis of 8 years old**  
AYUMI SEKI\*<sup>1</sup>, ARIKO TAKEUCHI<sup>1,2</sup>, TATSUYA KOEDA<sup>1,2</sup>  
<sup>1</sup> Department of Education, Faculty of Regional Sciences, Tottori University, Tottori  
<sup>2</sup> Japan Children's Study Group, JST/RISTEX
- P-139 Developmental Milestone of Children's Drawing Ability has been changing?**  
HIDEYO GOMA\*<sup>1</sup>, HIROMI KOTANI<sup>2</sup>, TOMOMI IKEDA<sup>3</sup>  
<sup>1</sup> Department of Education for Children with Disabilities, Hyoto University of Education, Kyoto  
<sup>2</sup> Kogakukann University, Mie  
<sup>3</sup> Hyogo University, Kakogawa
- P-140 Fundamental study on the validity of Kiddie Continuous Performance Test**  
YASUKO TSUSHIMA\*<sup>1</sup>, SATOSHI SANADA<sup>2</sup>, MASAFUMI YANAGIHARA<sup>2</sup>, TOSHIMI HIRASAWA<sup>1,2</sup>  
<sup>1</sup> The Joint Graduate School (Ph.D. Program) in Science of School Education, Hyogo University of Teacher Education, Hyogo  
<sup>2</sup> Division of Developmental Studies and Support, Graduate School of Education, Okayama University, Okayama
- P-141 Analysis of AD/HD by CPT**  
SEIKO FUJIKI\*, KAZUHISA HONGO, TAKASHI KURAMOTO, TOMOMI HARAI, RYUJI KAGEYAMA, KAZUSHI MIYA, CHIAKI TANAKA, TOSHIO MIYAWAKI  
University of Toyama, Toyama
- P-142 Continuous Performance Test (MOGRAZ) in normal healthy children**  
FUMIYO ONO\*<sup>1</sup>, SETSUKO KANEKO<sup>1</sup>, NAOTO HIRAYANAGI<sup>1</sup>, HIROKO KOBAYASHI<sup>1</sup>, MASAYUKI SHIMOHIRA<sup>1</sup>, HISAO KOBAYASHI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Kawaguchi Municipal Medical Center, Saitama  
<sup>2</sup> Faculty of Education, Saitama University
- P-143 Intelligence structure assessed by the WISC-III in children with PDD and AD/HD.**  
YOKO KADO\*<sup>1</sup>, SATOSHI SANADA<sup>2</sup>, MASAFUMI YANAGIHARA<sup>2</sup>, TATSUYA OGINO<sup>3</sup>, SHIGERU OHNO<sup>4</sup>, KOUSUKE NAKANO<sup>5</sup>, KIYOKO WATANABE<sup>6</sup>, TERUKO MOROOKA<sup>6</sup>, MAKIO OKA<sup>6</sup>, YOKO OHTSUKA<sup>6</sup>  
<sup>1</sup> Department of Psychology, Faculty of Letters, Kansai University, Osaka  
<sup>2</sup> Division of Special Education, Faculty of Education, Okayama University, Okayama  
<sup>3</sup> Department of Children Studies, Faculty of Children Studies, Chugokugakuen University, Okayama  
<sup>4</sup> Ohno Pediatrics, Okayama  
<sup>5</sup> Department of Pediatrics, Matsuyama Red Cross Hospital, Matsuyama  
<sup>6</sup> Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama
- P-144 Visual Cognitive Competence of Children with High-Functional Autism by Ray-Osterrieth Complex Figure**  
SUSUMU NARUSE\*<sup>1</sup>, TOSHIAKI HASHIMOTO<sup>2</sup>, YOSHIMI TSUDA<sup>3</sup>, KENJI MORI<sup>4</sup>, MITSUE TAKAHARA<sup>3</sup>, SYOUJI KAGAMI<sup>4</sup>  
<sup>1</sup> Department of Physical Therapy, Kansai Rehabilitation College  
<sup>2</sup> Tokushima Red Cross Hinomine Medical and Rehabilitation Center  
<sup>3</sup> Special Support Education, Naruto University of Education  
<sup>4</sup> Department of Pediatrics, Institute of Health Biosciences University of Tokushima Graduate School
- P-145 The later effects of stress reaction depending on the developmental stage**  
FUMIHIRO MATSUI\*<sup>1</sup>, MASAFUMI MORIMOTO<sup>2</sup>, KANJI YOSHIMOTO<sup>3</sup>, AKIRA NISHIMURA<sup>2</sup>, KOUICHI TANDA<sup>2</sup>, KENICHI ISODA<sup>2</sup>, HAJIME HOSOI<sup>2</sup>  
<sup>1</sup> Kyoto Prefectural University of Medicine, Kyoto  
<sup>2</sup> Hananoki, Kyoto  
<sup>3</sup> Legal Medicine, Kyoto Prefectural University of Medicine, Kyoto
- P-146 Developmental changes in cortical responses using near-infrared spectroscopy**  
TOMOKO NISHIDA\*<sup>1</sup>, SONOKO IJICHI<sup>1</sup>, YUKIHIKO KONISHI<sup>1</sup>, MAYUMI KAWADA<sup>1</sup>, KENSUKE OKUBO<sup>1</sup>, MASANORI NAMBA<sup>1</sup>, TAKASI KUSAKA<sup>2</sup>, TADASHI IMAI<sup>1</sup>, KENICHI ISOBE<sup>1</sup>, SUSUMU ITOH<sup>1</sup>  
<sup>1</sup> Department of Pediatrics Faculty of Medicine, Kagawa University, Kitagun  
<sup>2</sup> Maternal and Perinatal Center, Faculty of Medicine, Kagawa University, Kitagun

**P-147 Neural correlates of processing relationship between situational parts and background: An fMRI study**

KEISUKE WAKUSAWA<sup>\*1</sup>, SHIGERU TSUCHIYA<sup>1</sup>, HIROYUKI YOKOYAMA<sup>3</sup>

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<sup>3</sup> Department of Psychiatric Nursing, School of Nursing, Yamagata University Faculty of Medicine, Yamagata

**P-148 metaphor and sarcasm: An fMRI study**

HITOSHI UCHIYAMA<sup>\*1</sup>, AYUMI SEKI<sup>2,3</sup>, TATSUYA KOEDA<sup>2,3</sup>, KOUSAKU OHNO<sup>4</sup>, NORIHIRO SADATO<sup>5</sup>

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<sup>4</sup> Department of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University

<sup>5</sup> National Institute for Physiological Sciences, Okazaki

## developmental disorder 9 (others)

**P-149 Development Quotient of Infant at Osaka baby nursery home**

TAKAKO MISAKI<sup>\*1</sup>, YUTAKA SUEHIRO<sup>1,2</sup>

<sup>1</sup> The Pediatric Department, Osaka Saiseikai Natatsu Hospital, Osaka

<sup>2</sup> Osaka baby nursery home, Osaka

**P-150 Cases with developmental disorders requiring long term hospitalization due to chronic disease**

AYUMI ISHIHARA<sup>\*</sup>, YOSHIKO OMORI, SHIGENORI YAMAMOTO

The Department of Pediatrics, Shimoshizu National Hospital, Chiba

**P-151 2 cases of central hypothyroidism with a complaint of developmental retardation**

KEIJI SOEIJANTO<sup>\*</sup>, HIROYUKI SATAKE, KENJIRO GONDO, TOSHIO HANAI

Department of Child Neurology, Fukuoka Children's Hospital, Fukuoka

**P-152 Clinical varieties in the siblings with developmental disorders**

MASAO KAWATANI<sup>\*1</sup>, AKIO NAKAI<sup>1</sup>, MICHIO HIRATANI<sup>2</sup>

<sup>1</sup> The Department of Pediatrics, Faculty of Medical Sciences, University of Fukui, Fukui

<sup>2</sup> Hiratani Clinic for Developmental Disorders of Children, Fukui

**P-153 A Clinical Study of Pyridoxine Treatment for PDD with Hypersensitivity to Sound.**

MACHIKO KAMIYAMA<sup>\*1</sup>, SHINICHI KURIYAMA<sup>1,2</sup>, MIKAKO WATANABE<sup>3</sup>

<sup>1</sup> Department of Education, Art and Science, Yamagata University, Yamagata

<sup>2</sup> Department of Public Health, Tohoku University Graduate School of Medicine, Sendai

<sup>3</sup> Saka General Hospital, Siogama

**P-154 Refusal to eat solid foods in two infants forced to eat, having relevance to autistic spectrum.**

SUNAO DEJIMA<sup>\*</sup>

The Department of Pediatrics, Kyoto Min-iren Chuo Hospital

**P-155 Two cases with congenital cytomegalovirus infection and pervasive developmental disorder**

MASAYA TACHIBANA<sup>\*1</sup>, YUKIHIRO KITAI<sup>2</sup>, EMI MURATA<sup>1</sup>, TOMOKA YAMAMOTO<sup>1</sup>, SAEKO SAKAI<sup>3</sup>, KUMI KATO<sup>1</sup>, KURIKO SHIMONO<sup>2</sup>, IKUKO MOHRI<sup>1</sup>, TAKESHI OKINAGA<sup>2</sup>, TOSHISABURO NAGAI<sup>3</sup>, KEIICHI OZONO<sup>2</sup>, MASAKO TANIIE<sup>1</sup>

<sup>1</sup> Molecular Research Center for Children's Mental Development, Osaka University Graduate School of Medicine, Suita

<sup>2</sup> Department of Pediatrics, Osaka University Graduate School of Medicine, Suita

<sup>3</sup> Division of Health Science, Osaka University Graduate School of Medicine, Suita

**P-156 An advanced case of DMD is related PDD of the mother and child in the background of medical neglect.**

HIROSHI IDEGUCHI<sup>\*1</sup>, SHINYA NINOMIYA<sup>2</sup>, YUKIKO IHARA<sup>1</sup>, TAKAKO FUJITA<sup>3</sup>, NAOMI MORISHIMA<sup>2</sup>, TAKAHITO INOUE<sup>1</sup>, SAWA YASUMOTO<sup>1</sup>, SHINICHI HIROSE<sup>1</sup>

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<sup>2</sup> The Department of Pediatrics, Fukuoka University Chikushi Hospital, Fukuoka

<sup>3</sup> The Department of Pediatrics, Nakatsu Municipal Hospital, Fukuoka



**P-157 Change of the seat pressure in students with developmental disorders**

TSUJI KAORU\*<sup>1</sup>, SATOSHI TAKADA<sup>1</sup>

<sup>1</sup> Kobe University Graduate School of Health Sciences, Kobe

<sup>2</sup> Osaka Developmental Rehabilitation Center

**P-158 Survey of Public Awareness and Perceptions on "the Child Mental Development and the Brain Science"**

AKIO NAKAI\*<sup>1</sup>, MASAO KAWATANI<sup>1</sup>, MICHIO HIRATANI<sup>2</sup>

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<sup>2</sup> Hiratani Clinic for Developmental Disorders of Children, Fukui

## developmental disorder 10 (ADHD · LD)

**P-159 A study of 109 cases in Japan, obligated to switch from Short-acting to Long-acting methylphenidate**

CHIEKO NARA\*<sup>1</sup>, HIROYUKI YOKOYAMA<sup>2</sup>, MIEKO HIROSE<sup>1</sup>, KEISUKE WAKUSAWA<sup>1,3</sup>, YUKI KUBOTA<sup>1</sup>, KAZUHIRO HAGINOYA<sup>1,4</sup>, KAZUIE IINUMA<sup>5</sup>, SHIGERU TUCHIYA<sup>1</sup>

<sup>1</sup> Department of Pediatrics, Tohoku University of Medicine, Sendai

<sup>2</sup> Department of Nursing, Yamagata University of Medicine, Yamagata

<sup>3</sup> Kesennuma Hospital, Kesennuma

<sup>4</sup> Takutou Medical Center of Miyagi Prefecture, Sendai

<sup>5</sup> Ishinomaki Red Cross Hospital, Ishinomaki

**P-160 Survey of methylphenidate(CONCERTA) therapy for Attention-Deficit Hyperactivity Disorders**

JUN SHIMIZU\*<sup>1</sup>, NORIKO OGURO<sup>1</sup>, MARIKO MOMOI<sup>2</sup>

<sup>1</sup> Department of Pediatrics, Tochigi Rehabilitation Center, Utsunomiya

<sup>2</sup> Department of Pediatrics, Jichi Medical University, Simotsuke-City

**P-161 Efficacy of OROS-methylphenidate for ADHD like symptoms of children with PDD**

HIRONORI MATSUFUJI\*<sup>1</sup>, NAOKO SUENAGA<sup>1</sup>, MADOKA KAJIMOTO<sup>1</sup>, YOSHITSUGU SUGIO<sup>1</sup>, TAKASHI ICHIYAMA<sup>2</sup>

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<sup>2</sup> Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Ube

**P-162 Clinical Trials of Atomoxetine in Child and Adolescent Patients with AD/HD in Japan**

TARO GOTO\*<sup>1</sup>, YASUSHI TAKITA<sup>2</sup>, MICHIIRO TAKAHASHI<sup>1</sup>

<sup>1</sup> Lilly Research Laboratories Japan, Kobe

<sup>2</sup> Lilly Research Laboratories Japan, Kobe

**P-163 Dyslexia in children with ADHD: Evaluation using DN-CAS**

YUSHIRO YAMASHITA\*<sup>1</sup>, NORIKO NAKASHIMA<sup>2</sup>, MUNETSUGU HARA<sup>1</sup>, TAKASHI OHYA<sup>1</sup>, SHIN-ICHIRO NAGAMITSU<sup>1</sup>, TOYOJIRO MATSUISHI<sup>1</sup>

<sup>1</sup> Department of Pediatrics & Child Health, Kurume University School of Medicine, Kurume

<sup>2</sup> Saga University, Saga

**P-164 The effectiveness of intervention for a dyslexic child detected through RTI process**

HITOSHI UCHIYAMA\*<sup>1</sup>, AYUMI SEKI<sup>2,3</sup>, TOSHIHIDE KOIKE<sup>4</sup>, EIJI WAKAMIYA<sup>5</sup>, MASUMI INAGAKI<sup>6</sup>, TATSUYA KOEDA<sup>2,3</sup>

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<sup>2</sup> Department of Education, Faculty of Regional Sciences, Tottori University, Tottori

<sup>3</sup> Tottori Medical Center, National Hospital Organization, Tottori

<sup>4</sup> Faculty of Education, Tokyo Gakugei University, Tokyo

<sup>5</sup> Faculty of Nursing and Rehabilitations Aino University, Osaka

<sup>6</sup> Department of Developmental Disorders, National Institute of Mental Health National Center of Neurology and Psychiatry (NCNP), Tokyo

**P-165 Visual Information Processing Skill in children with spina bifida and hydrocephalus**

TOMOHIITO OKUMURA\*<sup>1</sup>, EIJI WAKAMIYA<sup>2</sup>, MASAACKI UNO<sup>3</sup>, NAOKO KURIMOTO<sup>1</sup>, MEGUMI MIZUTA<sup>1</sup>, KEIKO TANAKA<sup>4</sup>, HIROSHI TAMAI<sup>1,5</sup>

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<sup>2</sup> Aino University, Faculty of Nursing and Rehabilitations, Osaka

<sup>3</sup> Palm children's clinic, Shiga

<sup>4</sup> Seikeikai Hospital

<sup>5</sup> Osaka Medical College, Department of Pediatrics, Osaka

## infectious and autoimmune disease 5

- P-166 Transiently T1 shortning of cerebral cortex in acute disseminated encephalomyelitis. A case report.**  
YUJI HASHIMOTO\*<sup>1</sup>, SATOSHI ANZAI<sup>1</sup>, KATSUNORI FUJII<sup>2</sup>, KAZUTO TAMAI<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Chiba Kaihin Municipal Hospital, Chiba  
<sup>2</sup> Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba  
<sup>3</sup> Tamai child clinic, Chiba
- P-167 A case report of Thiopental treatment for acute disseminated encephalomyelitis**  
GENKICHI IZUMI\*, YUKO TSUDA  
Department of pediatrics, Social Insurance Kinan Hospital, Wakayama
- P-168 1 at the age of onset was 1-year-old 10 months, an example of multiple sclerosis**  
SHUJI HASHIMOTO\*, YUUSAKU MIYAMOTO, TIAI NAGAE, MIHO HUKUDA, NORIKO KAMIYAMA, HIROSHI MURAKAMI, HITOSHI YAMAMOTO  
St Marianna University School of Medicine, kanagawa
- P-169 Mesangial Proliferative Glomerulonephritis due to IFN beta 1b in Multiple Sclerosis**  
TAMAMI YANO\*, YUKIO SAWAISHI, YASUHIRO WATANABE  
The Department of Reproductive and Developmental Medicine, Division of Pediatrics, University of Akita, Akita
- P-170 Successful treatment with plasma exchange for a NMO patient.**  
MIHO FUKUI\*<sup>1</sup>, SYUICHI SHIMAKAWA<sup>1</sup>, TOSHIYUKI TAKAHASHI<sup>2</sup>, HIROSHI TAMAI<sup>1</sup>  
<sup>1</sup> The Department of Pediatrics, Osaka Medical College, Osaka  
<sup>2</sup> The Department of Neurology, Tohoku University Graduate School of Medicine, Miyagi
- P-171 A case of severe transverse myelitis which combination therapy showed benefit.**  
YUJI FUJII\*<sup>1</sup>, YOSIHIRO MAEGAKI<sup>1</sup>, CHISAKO FUKUDA<sup>2</sup>, KOUSAKU OHNO<sup>1</sup>  
<sup>1</sup> Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, Yonago  
<sup>2</sup> Department of Pathobiological Science and Technology, Faculty of Medicine, Tottori University, Yonago
- P-172 A case of autoimmune encephalopathy**  
ASUKA YAMAMOTO\*<sup>1</sup>, MARIKO SHIMIZU<sup>1</sup>, YUKIKO NAKAMURA<sup>1</sup>, FUMIO BESSHO<sup>1</sup>, YUKITOSHI TAKAHASHI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Kyorin University, Tokyo  
<sup>2</sup> National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders

## acute encephalopathy 4 (others)

- P-173 A case of biphasic encephalopathy caused by unknown origin**  
MAMIKO HOTATE\*, KEI KOMIYA, AYA NARITA, HISAMITU TAMAKI, MASHIRO ITOH  
Tokyo Metropolitan Bokutoh Hospital
- P-174 The girl at 8 years old with acute encephalopathy AESD**  
KEIKO MIZUTA\*<sup>1</sup>, FUMIKA YAMAGUCHI<sup>2</sup>, EIKO TAKADA<sup>1</sup>, MASANORI TAMURA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics Medical Center, Saitama Medical School, Saitama  
<sup>2</sup> Tokyo woman's medical university
- P-175 A case of acute encephalopathy with seizures and late reduced diffusion.**  
HISAKO SHIRASAKI\*<sup>1</sup>, MASAO KAWATANI<sup>1</sup>, AKIO NAKAI<sup>1</sup>, KOUITI NISHIDA<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, Faculty of Medical Sciences, University of Fukui, Fukui  
<sup>2</sup> The Department of Pediatrics, Fukui Cardio Vascular Center, Fukui
- P-176 Recurrent encephalopathy; a case report of ANE late provoked HHE after several years**  
TERUHIKO SUZUKI\*<sup>1</sup>, YUUSAKU ENDO<sup>1</sup>, KOUITI HIRANO<sup>1</sup>, MASATAKA ITO<sup>2</sup>, TAKEHIKO OZEKI<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Hamamatsu University school of Medicine  
<sup>2</sup> Aoba child clinic
- P-177 A case of encephalopathy showing acute hemorrhagic shock and late reduced diffusion**  
HIROFUMI KASHII\*<sup>1</sup>, KAORU AMEMIYA<sup>1</sup>, RIINA SUZUKI<sup>1</sup>, AYAKA KOIDE<sup>1</sup>, SUNAO TOMITA<sup>1</sup>, RIE MIYATA<sup>2</sup>, NAOYUKI TANUMA<sup>2</sup>, MASAHARU HAYASHI<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Tokyo Metropolitan Hachioji Children's Hospital, Tokyo  
<sup>2</sup> Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo

- P-178 A girl case of aphasia and dyslexia after acute encephalopathy**  
 SACHIKO NAGAHARU\*, YUJI INABA, YUKA MISAWA, TETUHIRO FUKUYAMA, TSUKASA HIGUCHI, MACHIKO HARADA, KEIKO TSUKAHARA, MITSUO MOTOBAYASHI  
 Department of Pediatrics, Faculty of Medicine, University of Shinsyu, Shinsyu
- P-179 Biphasic seizures associated with exanthema subitum without late reduced diffusion**  
 NAOKO KIMURA\*<sup>1</sup>, TOMOHIDE GOTO<sup>1</sup>, YUSUKE GOTO<sup>2</sup>, SAHOKO MIYAMA<sup>1</sup>  
<sup>1</sup> Department of Neurology, Tokyo Metropolitan Kiyose Children's Hospital, Tokyo  
<sup>2</sup> Department of Pediatrics, Yamanashi Prefectural Central Hospital, Yamanashi
- P-180 Steroid ineffective HHV-6 associated Encephalopathy with febrile convulsive status epilepticus.**  
 AYA IWATA\*, HIROYUKI NIGAMI  
 Department of Pediatrics, Nishi-Kobe Medical Center
- P-181 Administration of edaravone and ganciclovir for a patient with HHV-6 encephalopathy**  
 ATSUKO OBA\*<sup>1</sup>, SINICHIROU HAMANO<sup>1</sup>, NORIMICHI HIGURASHI<sup>1</sup>, SATOSHI YOSHINARI<sup>1</sup>,  
 MANABU TANAKA<sup>1</sup>, MOTOYUKI MINAMITANI<sup>3</sup>, NAOYUKI TANUMA<sup>3</sup>, MASAHARU HAYASHI<sup>5</sup>  
<sup>1</sup> Division of Neurology, Saitama Children's Medical Center, Saitama city  
<sup>2</sup> Matudo City Hospital, Matudo city  
<sup>3</sup> Department for Child Health and Human Development, Saitama Children's Medical Center, Saitama city  
<sup>4</sup> Tokyo Metropolitan Fuchu Center, Tokyo  
<sup>5</sup> Tokyo Metropolitan Institute for Neuroscience, Tokyo
- P-182 Report of two cases of rotavirus associated acute encephalopathy with cerebellitis**  
 SATORU KOBAYASHI\*<sup>1</sup>, YUTAKA NEGISHI<sup>2</sup>, YOUKO NKAJIMA<sup>1</sup>, TOHRU OKANISHI<sup>1</sup>, TOSHIKI  
 HIRATANI<sup>1</sup>, KIYO HAMAGUCHI<sup>2</sup>, MAOKI ANDO<sup>1</sup>, TETSUYA ITO<sup>1</sup>, HAJIME TOGARI<sup>1</sup>  
<sup>1</sup> Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences,  
 Nagoya  
<sup>2</sup> Department of Pediatrics, Gifu Prefectural Tajimi Hospital, Gifu
- P-183 Influenza-associated encephalopathy treated with IVIg in addition to mPSL pulse therapy**  
 KOYO OHNO\*<sup>1</sup>, KOICHI ASAI<sup>1</sup>, AKIKO KONDOU<sup>2</sup>, YUUJI FUJII<sup>2</sup>, KOUSAKU OHNO<sup>2</sup>  
<sup>1</sup> Shimane Prefectural Central Hospital  
<sup>2</sup> Division of Child Neurology, Institute of neurological Sciences, Faculty of Medicine, Tottori University
- P-184 Efficacy of steroid therapy for acute encephalopathy with febrile convulsive status epilepticus**  
 YOSHIHIRO WATANABE\*<sup>1</sup>, IKUKO MORIO<sup>1</sup>, YOSHITAKA OYOYAMA<sup>2</sup>, KAZUSHI ICHIKAWA<sup>2</sup>,  
 SAOKO TAKESHITA<sup>2</sup>, ATSUKO NEZU<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Saiseikai Yokohamashi Nanbu Hospital, Kanagawa  
<sup>2</sup> Child Medical Center, Yokohama City University Medical Center, Kanagawa  
<sup>3</sup> Yokohama Ryouiku Iryou Center, Kanagawa

## acute encephalitis · AERRPS

- P-185 Characteristics of EEG for 3 infants of Herpes Simplex Virus encephalitis**  
 HIROKO IWAMI\*<sup>1</sup>, MASASHI SHIOMI<sup>2</sup>, TAKESHI INOUE<sup>3</sup>, MEGUMI NUKUI<sup>3</sup>, ICHIRO KUKI<sup>3</sup>, SHIN  
 OKAZAKI<sup>1</sup>, HISASHI KAWAWAKI<sup>1,2</sup>, MASAO TOGAWA<sup>1</sup>  
<sup>1</sup> The Department of Pediatric Emergency, Osaka City General Hospital, Osaka  
<sup>2</sup> Infectious Medicine, Osaka City General Hospital, Osaka  
<sup>3</sup> The Department of Pediatric Neurology, Osaka City General Hospital, Osaka
- P-186 A case of mumps encephalitis suffered at the next day after selling of parotid gland**  
 RAMONA YOSHINO\*, TADAKI OHMAE, TOSHIO OSAMURA  
 The Department of Pediatrics, Kyoto Second Red Cross Hospital, Kyoto
- P-187 Gerstmann's syndrome in patient with parietal lobe encephalitis**  
 KEIKO OKUMURA\*, TOMOHIKO TSURU, ATSUKO Ooba  
 Department of Pediatrics, Matsudo City Hospital, Chiba
- P-188 Non-herpetic limbic encephalitis with multiple mononeuropathy**  
 HIROKI MORI\*, YASUYUKI NOZAKI, TOKIKO FUKUDA, MASATO MORI, TAKANORI YAMAGATA,  
 HIDEO SUGIE, MARIKO MOMOI  
 The Department of Pediatrics, Jichi Medical University, Tochigi

- P-189 Variated configuration of the circle of Willis as a risk factor of acute encephalopathy-like symptom**  
 RYUTARO KOHIRA\*, YUKI IMAI, WAKAKO ISHII, AYUMI ENDO, NORIKO TOMIO, CHIKAKO ARAKAWA, YUKIHIKO FUJITA, TATSUO FUCHIGAMI  
 The Department of Pediatrics, Nihon University School of Medicine, Tokyo
- P-190 a case of encephalopathy syndrome**  
 HIDEHIKO YANAGIDA\*, TSUKASA TAKEMURA  
 Department of Pediatrics KINKI University School of Medicine Osaka
- P-191 Axonal injury in acute encephalitis with refractory, repetitive partial seizure (AERRPS)**  
 HIROFUMI KASHII\*<sup>1</sup>, KAORU AMEMIYA<sup>1</sup>, RIINA SUZUKI<sup>1</sup>, AYAKA KOIDE<sup>1</sup>, SUNAO TOMITA<sup>1</sup>, RIE MIYATA<sup>2,3</sup>, MITSUNORI SHIBATA<sup>2</sup>, JYUN KOUYAMA<sup>2</sup>, NAOYUKI TANUMA<sup>3</sup>, MASAHARU HAYASHI<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Tokyo Metropolitan Hachioji Children's Hospital, Tokyo  
<sup>2</sup> Department of Pediatrics, Tokyo-Kita Social Insurance Hospital  
<sup>3</sup> Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo
- P-192 Axonal injury and oxidative stress to DNA in post-encephalopathic epilepsy**  
 KEISUKE NAKAJIMA\*<sup>1</sup>, AKIMITSU WATANABE<sup>1</sup>, MASAHARU HAYASHI<sup>2</sup>, NAOYUKI TANUMA<sup>2</sup>, RIE MIYATA<sup>2</sup>  
<sup>1</sup> Tsuchiura Kyodo General Hospital  
<sup>2</sup> Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience
- P-193 Four cases with acute encephalitis with refractory, repetitive partial seizures**  
 NORIKO SAWAURA\*, KAZUHIRO MURAMATU, TOMOMI OGATA, YOKO URANO, HIROKAZU ARAKAWA  
 Department of pediatrics, gunma university graduate school of medicine, Gunma
- P-194 Successful surgical treatment for acute encephalitis with refractory, repetitive partial seizure**  
 ATSUO KIKUCHI\*<sup>1</sup>, MITSUGU UEMATSU<sup>1</sup>, NATSUKO ARAI<sup>1</sup>, RIE TSUBURAYA<sup>1</sup>, NAOMI FUKUYO<sup>1</sup>, KAZUHIRO HAGINOYA<sup>2</sup>, SHIGERU TSUCHIYA<sup>1</sup>  
<sup>1</sup> Department of Pediatrics, Tohoku University School of Medicine, Sendai  
<sup>2</sup> Takuto Rehabilitation Center for Children, Sendai

## vascular disease

- P-195 A case of 13-trisomy affected brain infarction**  
 MASAHARU MOROTO\*<sup>1</sup>, MINAKO KIHARA<sup>2</sup>, NOBUTO MITSUFUJI<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, Kyoto First Red Cross Hospital, Kyoto  
<sup>2</sup> The Department of Neonatology, Kyoto First Red Cross Hospital, Kyoto
- P-196 Two cases of anterior spinal artery syndrome owing to minor trauma**  
 RYO TANABE\*, KATSUNORI FUJII, TADASHI SHIOHAMA, MAIKO SAKAKIMOTO, YOICHI KOHNO  
 Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba
- P-197 A pediatric case of ophthalmoplegic migraine with brainstem hyperintense lesion**  
 MASAHARU OHFU\*, RIEKO ITO  
 Department of child neurology, Okinawa prefectural nanbu medical center & childrens medical center, Okinawa
- P-198 A case of 13 years-old child with looked-in syndrome.**  
 YUKO YAMAUCHI\*<sup>1</sup>, MANA KURIHARA<sup>1,2</sup>, TOSHITAKA KOHAGIZAWA<sup>1,2</sup>, KAYOKO TAKAHASHI<sup>2</sup>, HIROYUKI IDA<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, The Kanagawa Rehabilitation Center Atsugi, Kanagawa  
<sup>2</sup> Jikei University School of Medicine, Tokyo
- P-199 A case of pulmonary capillary hemangiomatosis presenting cerebral infarction during infancy**  
 JUN TOHYAMA\*<sup>1</sup>, NORIYUKI AKASAKA<sup>1</sup>, TSUKASA OHASHI<sup>1</sup>, YU KOBAYASHI<sup>1</sup>, SHOJI SUDO<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Nishi-Niigata Chuo National Hospital, Niigata  
<sup>2</sup> Department of Pediatrics, Niigata Prefectural Shibata Hospital, Shibata
- P-200 Posterior reversible encephalopathy syndrome with periodic lateralized epileptiform discharges**  
 KEN MOMOSAKI\*, MEGUMI SHIMABUKURO  
 The Department of Pediatrics, Okinawa Prefectural Hokubu Hospital, Okinawa

- P-201 The electroencephalographical findings of posterior reversible encephalopathy syndrome (PRES)**  
 RIEKO ITO\*, MASA HARU OHFU  
 Department of child neurology, Okinawa prefectural nanbu medical center & childrens medical center, Okinawa
- P-202 Reversible posterior leukoencephalopathy syndrome complicating Henoch-Schönlein purpura**  
 MINORU ASADA\*, NATSUKO ARAI, TAKUJI IMAMURA, AKIRA NISHIMURA  
 Department of Pediatrics, PL general Hospital, Tondabayasi-shi, Osaka
- P-203 A case of respirator brain**  
 HIROTO AKAIKE\*, HIROKI HUIJIMOTO  
 Kawasaki medical school, Okayama

## adverse drug reaction 1

- P-204 paradoxical effect of anticonvulsant in neonate**  
 TOMOKI MAEDA\*, KAZUHITO SEKIGUCHI, KAZUO OKANARI, MUTUMI AKAISHI, TATSURO IZUMI  
 The Department of Pediatrics Oita University Faculty of Medicine
- P-205 Acute encephalopathy with anticonvulsant hypersensitivity syndrome**  
 NOBUKO MORIYAMA\*<sup>1</sup>, TAKAMASA YOSHIDA<sup>1</sup>, NATSUKO OYAKE<sup>1</sup>, NOBUAKI IWASAKI<sup>2</sup>  
<sup>1</sup> Hitachi, Ltd. Mito General Hospital, Ibaraki  
<sup>2</sup> Ibaraki Prefectural University of Health Sciences Hospital
- P-206 Case of Drug-induced hypersensitivity syndrome characterized as clear bimodal course**  
 AKIHIKO NAKAHARA\*, TOSHIO IKEDA  
 Department of Pediatrics, Miyazaki Medical College, University of Miyazaki, Miyazaki
- P-207 Three patients with severe drug eruption induced by antiepileptic drugs**  
 YOSHITAKA OYAMA\*<sup>1</sup>, KAZUSHI ICHIKAWA<sup>1</sup>, SAOKO TAKESHITA<sup>1</sup>, YUKOH AIHARA<sup>1</sup>, ATSUO NEZU<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan  
<sup>2</sup> Yokohama Residential Care and Medical Center for Developmentally Disabled Person, Yokohama
- P-208 The co-therapy of massive-VPA and carnitine, and its clinical implications**  
 MIKI SHIMIZU\*, MASAHIRO TAKEGUCHI, KAZUO OKANARI, TATSURO IZUMI  
 Department of Pediatrics and Child Neurology, Brain and Nerve Science, Oita University Faculty of Medicine, Oita
- P-209 2 cases of Fanconi Syndrome in severely disabled children, caused by valproate therapy**  
 AYUMI ENDO\*, YUKIHIKO FUJITA, YUKI IMAI, MAKI HASEGAWA, WAKAKO HARUYAMA, CHIKAKO ARAKAWA, RYUTARO KOHIRA, TATSUO FUCHIGAMI, SHOURI TAKAHASHI, HIDEO MUGISHIMA  
 Department of Pediatrics and Child Health, Nihon University School of Medicine, Tokyo
- P-210 The comparison of the corpulence in the sodium valproate treatment with carbamazepine treatment**  
 HIROKI FUJIMOTO\*, HIROTO AKAIKE  
 The Department of Pediatrics, Kawasaki medical school, Kurashiki
- P-211 A Case of Zonisamide poisoning**  
 SUSUMU MIZUKAMI\*, YUKIKO MATSUNAMI  
 The Department of Pediatrics, Hakodate General Central Hospital, Hakodate
- P-212 Serum uric acid concentrations in epileptic children treated with zonisamide**  
 TAKAMASA KISHI\*  
 Department of Pediatrics, Hiroshima Memorial Hospital, Hiroshima
- P-213 Ethosuximide induced neutropenia and hemophagocytic syndrome in myoclonic astatic epilepsy patient.**  
 TARO KITAMURA\*<sup>1</sup>, MASARU TAKAYANAGI<sup>1</sup>, KATSUYA YAMAMOTO<sup>2</sup>  
<sup>1</sup> Sendai City Hospital, Department of Pediatrics, Sendai  
<sup>2</sup> Nankodai Yamamoto Pediatric Clinic, Sendai
- P-214 A case of intractable epilepsy with potassium bromide showing falsely high serum chloride levels**  
 TAKAHIRO MOTOKI\*, HIROYUKI WAKAMOTO, HIROMITSU OHMORI  
 Ehime Prefectural Central Hospital, Matsuyama

**P-215 Oxidative stress evaluated by HODE in epilepsy patients taking antiepileptic medicines**

KOHJI AZUMAGAWA\*<sup>1</sup>, YOUKO OGAWA<sup>2</sup>, MOTOTADA SHICHIRI<sup>2,3</sup>, YASUKAZU YOSHIDA<sup>2</sup>, ETSUO NIKI<sup>2</sup>, HIROSHI TAMAI<sup>3</sup>

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<sup>2</sup> National Institute of Advanced Industrial Science and Technology, Osaka

<sup>3</sup> Department of Pediatrics, Osaka

**P-216 Autonomic nervous function in pediatric diphenylarsenic acid poisoning cases**

NOBUAKI IWASAKI\*<sup>1</sup>, RYUTA TANAKA<sup>2</sup>, TATSUYUKI OHTO<sup>2</sup>, JYUNKO FUJIWARA<sup>3</sup>, KAZUHIRO ISHII<sup>4</sup>, SHINYA MIYAMOTO<sup>5</sup>, JYUNKO NAKAYAMA<sup>1</sup>, HIDEYO KINUGASA<sup>1</sup>, KENJI SHIN<sup>1</sup>, HIDEO SATHO<sup>1</sup>

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<sup>4</sup> Health Science University

<sup>5</sup> Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba

## metabolic disorder 4(others)

**P-217 A case report of molybdenum cofactor deficiency.**

ATSUSHI TAKAGI\*<sup>1</sup>, MEGUMI TSUJI<sup>1</sup>, KIYOKO SAMESHIMA<sup>1</sup>, MIZUE IAI<sup>1</sup>, SUMIMASA YAMASHITA<sup>1</sup>, HITOSHI OSAKA<sup>1</sup>

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<sup>2</sup> Department of Pediatrics, Nippon Medical School, Tokyo

**P-218 Effectiveness of modified Atkins Diet for 4 patients with GLUT1 deficiency syndrome**

YASUSHI ITO\*<sup>1</sup>, SUSUMU ITO<sup>1</sup>, HIROKAZU OGUNI<sup>1</sup>, MIYAKO OGUNI<sup>1,2</sup>, KEIKO ISHIGAKI<sup>1</sup>, YOSHITO HIRAYAMA<sup>1</sup>, SATOSHI TSURUI<sup>3</sup>, MAKIKO OSAWA<sup>1</sup>

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<sup>2</sup> Department of Food, Yamawaki Gakuen Junior College, Tokyo

<sup>3</sup> Department of Pediatrics, Seirei Numazu Hospital, Shizuoka

**P-219 Glut-1 deficiency syndrome with cerebellar and subcortical T2 prolonged lesions, An infantile case**

TADASHI SHIOHAMA\*<sup>1</sup>, KATSUNORI FUJII<sup>1</sup>, RYO TANABE<sup>1</sup>, FUMITO NAKAMURA<sup>2</sup>, KEIKO YANAGIHARA<sup>3</sup>, YOICHI KOHNO<sup>1</sup>

<sup>1</sup> Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba

<sup>2</sup> Department of Pediatrics, Asahi General Hospital, Chiba

<sup>3</sup> Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka

**P-220 A case of GABA transaminase deficiency: the diagnostic utility of MRS in clinical practice**

MEGUMI TSUJI\*<sup>1</sup>, ATSUSHI TAKAGI<sup>1</sup>, KIYOKO SAMESHIMA<sup>1</sup>, MIZUE IAI<sup>1</sup>, SUMIMASA YAMASHITA<sup>1</sup>, HITOSHI OSAKA<sup>1</sup>, NORIKO AIDA<sup>2</sup>

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<sup>2</sup> Department of radiology, Kanagawa Children's Medical Center, Kanagawa

**P-221 Siblings with cerebral white matter lesions associated with non-specific myopathy**

TOHRU OKANISHI\*<sup>1</sup>, SATORU KOBAYASHI<sup>1</sup>, NAOKI ANDO<sup>1</sup>, TATSUYA ISHIKAWA<sup>2</sup>, ICHIZO NISHINO<sup>3</sup>, IKUYA NONAKA<sup>4</sup>

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<sup>2</sup> Department of Child Development, Nihon Fukushi University

<sup>3</sup> Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry

<sup>4</sup> National Institute of Neuroscience, National Center of Neurology and Psychiatry

**P-222 A case of leukoencephalopathy**

TADASHI MATSUBASA\*<sup>1</sup>, HIROTOSHI KINOSHITA<sup>2</sup>, YUKO ARIZONO<sup>1</sup>, AKIHIKO KIMURA<sup>1</sup>, MAKOTO SHINOHARA<sup>1</sup>

<sup>1</sup> Ashikita Institution for Developmental Disabilities, Kumamoto

<sup>2</sup> Ezuko Institution for Developmental Disabilities, Kumamoto

**P-223 Double PLP1 Mutations in a Japanese Patient with Pelizaeus-Merzbacher Disease**

SHINOBU FUKUMURA\*

The Department of Pediatrics, Kushiro City General Hospital, Hokkaido

**P-224 The first case of 4H syndrome in Japan**

IKUKO SATO\*<sup>1</sup>, KAXUHIRO HAGINOYA<sup>1</sup>, MITSUGU UEMATSU<sup>2</sup>, AKIRA ONUMA<sup>1</sup>, SHIGERU TSUCHIYA<sup>2</sup>

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<sup>2</sup> The Department of Pediatrics, Tohoku University, Sendai

**P-225 Evaluation of visual and auditory function with NIRS in cerebral white matter disorders**

YUTAKA NONODA\*<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, HIROSHI KOMETANI<sup>1</sup>, KEISUKE SAEKI<sup>1</sup>, AYAKO MIYAHARA<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, YOSHIAKI SAITOU<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>, KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, HIROKATA OOE<sup>2</sup>, IWAO KOBAYASHI<sup>3</sup>, ATSUKO GUNJI<sup>4</sup>

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<sup>4</sup> Department of Developmental Disorders, National Institute of Mental Health, NCNP, Tokyo

## cerebral palsy · support system 2

**P-226 A study of cerebral palsied children typed spastic diplegia who were born at full term of gestation**

ATSUSHI SHISHIDO\*<sup>1</sup>, HIROYUKI IMAI<sup>1,2</sup>, TAKANORI ARIGA<sup>1,2</sup>, MIKA HAYAKAWA<sup>1,2</sup>, YUKIKATSU OCHIAI<sup>1</sup>, HIROYUKI IDA<sup>2</sup>

<sup>1</sup> Tokyo metropolitan north Sodairyou center

<sup>2</sup> The Jikei University school of medicine

**P-227 Neuronal loss of the hypoglossal nucleus and prominent area postrema in HIE case**

SACHIKO KANDA\*<sup>1</sup>, MASAHARU HAYASHI<sup>2</sup>, SOU ATUMI<sup>1</sup>, SATOSHI KOMINE<sup>1</sup>

<sup>1</sup> Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo

<sup>2</sup> Tokyo Metropolitan Institute for Neuroscinece, Tokyo

**P-228 jejunal feeding through gastrostomy for children with sever motor and intellectual disability**

EIJI KITAZUMI\*, KATSUTOSHI NAKATANI, HIROYUKI IWASAKI, NAGAHISA TAKAHASHI, MARIKO KODAMA, AKIRA YONEYAMA, MIKA NAGASE, NAOKO ISHIKAWA

National Rehabilitation Center for Disabled Children

**P-229 Relapse of gastroesophageal reflux after fundoplication by respiratory distress**

SOICHIRO TANAKA\*, YURIKA NUMATA, IKUKO SATO, KAZUHIRO HAGINOYA, AKIRA OHNUMA

Department of Pediatric Neurology, Takuto Rehabilitation Center, Sendai

**P-230 Therapy for persons with SMID accompanying dyspnea caused by hypertonia and thorax deformity**

TAKANORI EZOE\*, HARUMI SAIJOH, HIROSHI HAMAGUCHI, YOSHIKO TAKEDA, KATUHITO ARAKI, SUI SONE, TUNENORI HIRAYAMA, HISAHARU SUZUKI, KIYOKO KURATA

Tokyo Metropolitan Higashiyamoto Medical Center, Tokyo

**P-231 A case of atelectasis with Down syndrome treated by Intrapulmonary Percussion Ventilation.**

KIYOHISA ISHII\*, YUKA KAN, KYOKO KITSUKI

Saga Seishi Handicapped Hospital, Saga

**P-232 A nutritional planning and followed up evaluation for the newly admitted patients with disabilities.**

YUKI ANZAI\*, TATSUO OHYA

The Department of Pediatrics Saiseikai Yokohama Eastern Hospital, Kanagawa

**P-233 Two children with spastic quadriplegia developing malignant syndrome**

KEITA HARA\*<sup>1</sup>, TAKUYA TANABE<sup>1</sup>, SHUICHI SHIMAKAWA<sup>2</sup>, HIROSHI TAMAI<sup>2</sup>

<sup>1</sup> Division of Pediatrics, Hirakata City Hospital, Osaka

<sup>2</sup> Department of Pediatrics, Osaka Medical College, Osaka

- P-234 MR findings of cervical spondylosis and atlanto-axial dislocation in athetoid cerebral palsy.**  
 MAYUMI MATSUFUJI\*<sup>1</sup>, HIDETSUNA UTSUNOMIYA<sup>3</sup>, SACHIKO IWATA<sup>4</sup>, NAOYA ITOKAZU<sup>1</sup>,  
 SACHIO TAKASHIMA<sup>1,3</sup>, SHINICHI HIROSE<sup>2</sup>  
<sup>1</sup> Yanagawa Institute for Developmental Disabilities, Fukuoka  
<sup>2</sup> Department of Pediatrics, University of Fukuoka, Fukuoka  
<sup>3</sup> International University of Health and Welfare  
<sup>4</sup> Department of Pediatrics, University of Kurume, Fukuoka
- P-235 Severe hyper IgE in a patient with severe motor and intellectual disabilities (SMID)**  
 NAHO MIWA\*<sup>1</sup>, NAOYUKI TANUMA<sup>1</sup>, MASAHARU HAYASHI<sup>2</sup>, YUTAKA KAWANO<sup>3</sup>  
<sup>1</sup> Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo  
<sup>2</sup> Tokyo Metropolitan Institute for Neuroscience, Tokyo  
<sup>3</sup> Yokohama City Minato Red Cross Hospital, Yokohama
- P-236 Effective of Pramlukast for Children with severe motor and intellectual disabilities**  
 SATOKO TANAKA\*<sup>1</sup>, ATSUSHI ARAKI<sup>1</sup>, SHOUICHIROU TANIUCHI<sup>1</sup>, KAZUNARI KANEKO<sup>1</sup>  
 Department of Pediatrics, Kansai Medical University, Osaka
- P-237 Anemia and neutropenia due to copper deficiency despite recommended enteral nutrition.**  
 KAZUMI SAWADA\*<sup>1</sup>, NAOYA ITOKAZU<sup>1,2</sup>, YASUKO NASU<sup>1</sup>, SYOZOU OODOU<sup>1</sup>  
<sup>1</sup> Pediatrics, Aisenkai Nichinan Hospital, Miyazaki  
<sup>2</sup> Donguri Children's Clinic

### cerebral palsy · support system 3

- P-238 Sequential improvement of hand skills with PVL children**  
 YUMI OKOSHI\*<sup>1</sup>, YASUYUKI SUZUKI<sup>2</sup>, MASATAKA ARIMA<sup>1</sup>  
<sup>1</sup> Tokyo Metropolitan Tobu Medical Center, Tokyo  
<sup>2</sup> Tokyo Children's Rehabilitation Hospital, Tokyo
- P-239 The creation of wheelchair, seating system in general hospital pediatrics and doctor's role to it.**  
 MASAO MORITA\*  
 Funabashi Futawa Hospital, Chiba
- P-240 A Method of Developmental measurement by Sole Stamp Analysis for Children with Motor retardation**  
 SHIGERU HANAOKA\*  
 Johnan-Branch, Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled
- P-241 abdominal ultrasound in patients with Severe Motor and Intellectual Disabilities**  
 HITOMI NOGUCHI\*, YUKO TAKI, SYUHEI IDE, MANAMI HONDA, SHIHO HONZAWA, MINA  
 YOKOYAMA, YUMI OKOSHI, YUKIKO OSAWA, YASUHIRO ARAI, MICHIO FUKUMIZU, TATSUO  
 MASUYAMA, YUJI IWASAKI, MASATAKA ARIMA,  
 Department Of Pediatrics, Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/Multiple  
 Disabilities, Tokyo, Tokyo
- P-242 Medical needs for children or persons with severe motor and intellectual disabilities**  
 AKIKO NAGAE\*, JUNKO ABE, YASUYUKI FUJITA, MASAO KUMODE  
 BIWAKO GAKUEN KUSATU Medical and Welfare center, Shiga
- P-243 Profile of patients with severe motor and intellectual disabilities without home care experience**  
 YUKIKO OSAWA\*, MASATAKA ARIMA, YUJI IWASAKI, TATSUO MASUYAMA, MICHIO  
 FUKUMIZU, YASUHIRO ARAI, YUMI OKOSHI, MINA YOKOYAMA, SHIHO HONZAWA, MANAMI  
 HONDA, SYUHEI IDE, YUKO TAKI, HITOMI OGUCHI,  
 Tokyo Metropolitan Tobu Medical Center, Tokyo
- P-244 Attitude of medical doctors towards health care for adults with SMID in the community**  
 KIYOKUNI MIURA\*<sup>1</sup>, OSAMU TAKAHASHI<sup>2</sup>  
<sup>1</sup> Department of child neurology, Toyota municipal child development center, Toyota  
<sup>2</sup> Department of child psychiatry, Toyota municipal child development center, Toyota
- P-245 The increase of severe motor and intellectual disabilities with home care**  
 AKIKO KONDOU\*, YOSHIHIRO MAEGAKI, KOUSAKU OHNO  
 Division of Child Neurology, Institute for Neurological Sciences, Faculty of Medicine, University of Tottori, Yonago



**P-246 Study of patients with severe motor and intellectual disabilities presenting with sudden CPA**

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**others (imaging · involuntary movement · peripheral nerve)**

**P-247 Striatal degeneration in lateral side of striatum in acute-onset type glutaric aciduria type 1**

SHIN NABATAME\*<sup>1</sup>, YOSHIMI KATO<sup>1</sup>, SATORI HIRAI<sup>1</sup>, TAKESHI OKINAGA<sup>2</sup>, HIROSHI ARAI<sup>1</sup>, SEIJI YAMAGUCHI<sup>3</sup>, TETSUZO TAGAWA<sup>4</sup>

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

<sup>4</sup> Pediatrics, Osaka Koseinenkin Hospital, Osaka

**P-248 Brain Easy Analysis Tool(BEAT) with Shaken Baby Syndrome**

GEORGE IMATAKA\*, SEITO HISAMATSU, KEIKO TSUKADA, HIDEO YAMANOUCI, OSAMU ARISAKA

The Department of Pediatrics, Dokkyo Medical University

**P-249 The relationship between the severity of PVL and fractional anisotropy in diffusion tensor image.**

TOSHIHIKO SUZUKI\*<sup>1</sup>, HIDEYUKI OE<sup>1</sup>, HIROYUKI KIDOKORO<sup>1</sup>, TETSUO KUBOTA<sup>1</sup>, TAMIKO NEGORO<sup>2</sup>

<sup>1</sup> Anjo Kosei Hospital

<sup>2</sup> Okazaki Women's Junior College

**P-250 Two patients with mild hemiplegia ;Combined use of diffusion tensor imaging**

MAKIKO SHIMAZAKI\*, YUKIKO NAKAMURA, MAMI MIWA, FUMIO BESSYO

The Department of pediatrics, Kyorin university, Tokyo

**P-251 MRI findings in the internal capsule in five cases of paroxysmal kinesigenic choreoathetosis.**

TADAKI OMAE\*<sup>1</sup>, TOSHIO OSAMURA<sup>1</sup>, RAMONA YOSHINO<sup>1</sup>, TAKESHI INOUE<sup>2</sup>, HARUO HATTORI<sup>3</sup>

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<sup>3</sup> Hattori children clinic, Kyoto

**P-252 Familial paroxysmal dystonic choreoathetosis**

WAKAKO ISHII\*, YUKIHIKO FUJITA, YAYUMI KAMIYAMA, YUKI IMAI, AYUMI ENDO, CHIKAKO ARAKAWA, RYUTAROU KOHIRA, TATSUO FUCHIGAMI, HIDEO MUGISHIMA

Nihon University School of Medicine, Tokyo

**P-253 Epidemiological survey of childhood-onset dystonia - Efficacy of oral medications on each dystonia -**

MAKOTO FUNATSUKA\*, IKUKO KATO, MAKIKO OSAWA

Department of Pediatrics, Tokyo Women's Medical University, Tokyo

**P-254 The man of HMSN with severe mental retardation and vocal cord paresis in adulthood**

TSUNENORI HIRAYAMA\*<sup>1</sup>, SUI SONE<sup>1</sup>, YOSHITO HIRAYAMA<sup>1</sup>, KATSUHITO ARAKI<sup>1</sup>, HIROSHI HAMAGUCHI<sup>1</sup>, HARUMI NAKAYAMA<sup>2</sup>, HARUMI SAIJO<sup>1</sup>, TAKANORI EZOE<sup>1</sup>, MAYUMI OKADA<sup>1</sup>, YOSHIKO TAKEDA<sup>1</sup>, FUMIHARU SUZUKI<sup>1</sup>, KIYOKO KURATA<sup>1</sup>

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**P-255 A case of early on set distal hereditary motor neuropathy involved mainly in the left lower limbs**

YURIKA NUMATA\*<sup>1</sup>, IKUKO SATO<sup>1,2</sup>, SOICHIROU TANAKA<sup>1</sup>, KAZUHIRO HAGINOYA<sup>1</sup>, AKIRA ONUMA<sup>1</sup>, SHIGERU TSUCHIYA<sup>2</sup>

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## muscular disease 1

### **P-256 Inhibition of prostaglandin D synthase suppresses muscular necrosis**

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<sup>3</sup> Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Suita, Osaka

### **P-257 Alendronate for treating osteoporosis in Duchenne Muscular Dystrophy: 6 months to 1 year follow up**

YUKO SHINOZAKI\*, HIROFUMI KOMAKI, KIYOKO ISHII, HIROSHI SAKUMA, YOSHIKI SAITO, EIJI NAKAGAWA, KENJI SUGAI, MASAYUKI SASAKI

Department of Child Neurology, National Center Hospital of Neurology and Psychiatry, Tokyo

### **P-258 Traveling abroad of one Duchenne muscular dystrophy needs mechanical ventilation during sleep**

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<sup>2</sup> Ehime University Department of Special Support Education, Matsuyama

### **P-259 Analysis of CNS disorder in Duchenne/Becker muscular dystrophy ; data on developmental test & BDNF**

KAORI ITO\*<sup>1</sup>, SHIGEMI KIMURA<sup>2</sup>, MIYUKI TAKANO<sup>2</sup>, SHIGETO SUGINO<sup>3</sup>, MAKOTO IKEZAWA<sup>4</sup>, SHIRO OZASA<sup>2</sup>, KEIKO NOMURA<sup>2</sup>, KYOKO NAKAMURA<sup>2</sup>, TERUHISA MIIKE<sup>5</sup>, ISAO FUJII<sup>1</sup>, MAKOTO MATSUKURA<sup>1</sup>

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<sup>5</sup> Hyogo Children's Sleep and Development Medical Research Center, Hyogo

### **P-260 The cases of limb-girdle muscular dystrophy identified by multiplex PCR-SSCP**

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### **P-261 Two Japanese LGMD2C cases with the deletion of exon6 in gamma-sarcoglycan gene**

HIROYUKI AWANO\*<sup>1</sup>, YASUHIRO TAKESHIMA<sup>1</sup>, MARIKO YAGI<sup>1</sup>, YOU OKIZUKA<sup>1</sup>, TOSHIYUKI KUMAGAI<sup>2</sup>, KOICHI MARUYAMA<sup>3</sup>, KYOKO ITOH<sup>4</sup>, MASAFUMI MATSUI<sup>1</sup>

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<sup>3</sup> Aichi Prefectural Colony Central Hospital, Kasugai

<sup>4</sup> Kyoto Prefectural University of Medicine, Kyoto

### **P-262 A novel POMT2 mutation causes mild congenital muscular dystrophy with normal brain MRI**

TERUMI MURAKAMI\*<sup>1</sup>, YUKIKO HAYASHI<sup>2</sup>, MASAMI TOGAWA<sup>3</sup>, TAKEHIKO INOUE<sup>4</sup>, AKIRA OKA<sup>5</sup>, KOSAKU ONO<sup>4</sup>, IKUYA NONAKA<sup>2</sup>, MAKIKO OSAWA<sup>1</sup>, ICHIZO NISHINO<sup>2</sup>

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<sup>5</sup> Department of Pediatrics, The University of Tokyo Hospital

### **P-263 severe infantile myofibrillar myopathy-a case report**

MASAYASU OHTA\*<sup>1</sup>, YUKIKO HAYASHI<sup>2</sup>, ICHIZO NISHINO<sup>2</sup>

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<sup>2</sup> National Institute of Neuroscience, National center of Neurology and Psychiatry, Kodaira, Tokyo

### **P-264 When should we start HMV(home mechanical ventilation)to myopathic babies?**

TAKASHI KURAMOTO\*<sup>1</sup>, TOMOMI HARAI<sup>1</sup>, YASUKO HUIJIKI<sup>1</sup>, RYUJI KAGEYAMA<sup>1</sup>, KAZUSHI MIYA<sup>2</sup>, CHIAKI TANAKA<sup>3</sup>, KAZUHISA HONGO<sup>1</sup>, FUKIKO ICHIDA<sup>1</sup>, TOSHIO MIYAWAKI<sup>1</sup>

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<sup>2</sup> Itoikawa, Nigata

<sup>3</sup> Toyama, Japan

## muscular disease 2

- P-265 A case report of prenatal spinal muscular atrophy**  
MARI YASUDA\*<sup>1</sup>, HISASHI TANIDA<sup>1</sup>, NORIHISA KOYAMA<sup>1</sup>, KENJI YOKOCHI<sup>1</sup>, IKUYA NONAKA<sup>2</sup>  
<sup>1</sup> Toyohashi Municipal Hospital, Aichi  
<sup>2</sup> National Center of Neurology and Psychiatry
- P-266 The effect of respiratory functional rehabilitation for patients with spinal muscular atrophy**  
TOSHIO SAITO\*, SUSUMU SHINNO  
Division of Neurology, National Hospital Organization Toneyama National Hospital
- P-267 A case of childhood-onset Pompe disease with hepatomegaly, absent of muscle symptoms**  
YOKO YOSHIKAWA\*<sup>1</sup>, KEIKO ISHIGAKI<sup>1</sup>, ERI ODA<sup>1,3</sup>, TORAYUKI OKUYAMA<sup>3</sup>, HARUKO SUZUKI<sup>1</sup>,  
KEIKO SHISHIKURA<sup>1</sup>, YOSHITO HIRAYAMA<sup>1</sup>, RYOUJI UMEZU<sup>2</sup>, MAKIKO OSAWA<sup>1</sup>  
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<sup>2</sup> The Department of Pediatrics, Tokyo Women's Medical University Medical Center East, Tokyo  
<sup>3</sup> National Center for Child Health and Development
- P-268 Effect of Enzyme Replacement Therapy in Late-onset Pompe's Disease:Assesment with CT Numbers**  
CHIHIRO YONEE\*<sup>1</sup>, SHINNSUKE MARUYAMA<sup>2</sup>, MITSUO TOYOSIMA<sup>2</sup>, KAZUMI TANAKA<sup>1</sup>  
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- P-269 Experience with FK506 in juvenile myasthenia gravis : a case report**  
TOSHINO MOTOJIMA\*<sup>1</sup>, TAKU OMATA<sup>1</sup>, HIDEE ARAI<sup>1</sup>, YUZO TANABE<sup>1,3</sup>  
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<sup>2</sup> The department of pediatrics, Motojima General Hospital, Ohta, Gumma  
<sup>3</sup> Soga pediatric clinic, Chiba
- P-270 A case report of DOWN syndrome with autoimmune Myasthenia Gravis**  
HIDENORI OHNISHI\*, KENJI ORII, ZENICHIRO KATO, MICHINORI FUNATO, HIDEYUKI MORITA,  
TETSUJI TOKUMI, NAOMI KONODO  
Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu
- P-271 Myasthenia gravis in children: Analysis of 19 patients**  
HIDEE ARAI\*<sup>1</sup>, TAKU OMATA<sup>1</sup>, YUZO TANABE<sup>1,2</sup>, TOSHINO MOTOJIMA<sup>1,3</sup>  
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<sup>2</sup> Soga Pediatric Clinic, Chiba  
<sup>3</sup> Department of Pediatrics, Motojima General Hospital
- P-272 The clinical progress and prognosis of the patients who get myasthenia gravis in childhood**  
YUKIKO MOGAMI\*, KEITARO YAMADA, YASUHISA TORIBE, KEIKO YANAGIHARA, TOSIYUKI  
MANO, YASUHIRO SUZUKI  
Osaka Prefectural Hospital Organization
- P-273 Effects of Tacrolimus on patients diagnosed as child-onset steroid-dependent myasthenia gravis**  
SAOKO TAKESHITA\*<sup>1</sup>, KAZUSHI ICHIKAWA<sup>1</sup>, YOSHITAKA OYAMA<sup>1</sup>, ATSUO NEZU<sup>2</sup>  
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<sup>2</sup> Yokohama Residential Care and Medical Centre for Developmentally Disabled Person

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- P-274 A case report of Ataxia telangiectasia like disorder associated with hypergonadotropic hypogonadism**  
TAKEO KATO\*<sup>1</sup>, MINORU SHIBATA<sup>1</sup>, TOMONARI AWAYA<sup>1</sup>, YASUNARI YAMANAKA<sup>1</sup>, TAKAYASU  
MIKUNI<sup>2</sup>  
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<sup>2</sup> Department of Neurophysiology, Graduate School of Medicine, University of Tokyo, Tokyo

- P-275 A case of CFC syndrome with BRAF gene mutation, severe MR, intractable epilepsy, marked skin lesion**  
 MOTOMASA SUZUKI\*<sup>1</sup>, KOICHI MARUYAMA<sup>1</sup>, SYUJI MIYAZAKI<sup>1</sup>, SEIJI MIZUNO<sup>2</sup>, AKIKO MATSUMOTO<sup>3</sup>, TOSHIYUKI KUMAGAI<sup>3</sup>, CHIEMI HAYAKAWA<sup>4</sup>  
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<sup>3</sup> Department of Pediatric Neurology, Kobato-Gakuen, Kasugai  
<sup>4</sup> Department of Pediatrics, Kobato-Gakuen, Kasugai
- P-276 A family of episodic ataxia type 2**  
 TSUYOSHI SASAKI\*<sup>1</sup>, DAISUKE USUI<sup>2</sup>, TAKATOSHI HOSOKAWA<sup>2</sup>, HIROSHI WAKIGUCHI<sup>2</sup>, KENJI SUGAI<sup>3</sup>  
<sup>1</sup> Pediatrics, Mitoyo General Hospital, Kagawa  
<sup>2</sup> Pediatrics, Kochi Medical School, Kochi  
<sup>3</sup> Child Neurology, National Center Hospital of Neurology and Psychiatry, Tokyo
- P-277 Applying enzyme mismatch cleavage to DNA diagnosis of neurodegenerative diseases**  
 YO NIIDA\*<sup>1</sup>, TAKANORI TSUJI<sup>2</sup>  
<sup>1</sup> Research Center for Child Mental Development, Kanazawa University, Ishikawa  
<sup>2</sup> National Hospital Organization Iou Hospital, Ishikawa
- P-278 A case of familial hemiplegic migraine with a mutation in the CACNA1A gene.**  
 TAKU OMATA\*<sup>1</sup>, JUNICHI TAKANASHI<sup>2</sup>, TAKAHITO WADA<sup>3</sup>, HIDEE ARAI<sup>1</sup>, YUZO TANABE<sup>1</sup>  
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<sup>2</sup> Kameda medical center, Chiba  
<sup>3</sup> Department of Preventive Medicine and Public Health, Shinshu University School of Medicine, Nagano
- P-279 Investigation on the roles of over-expressed Cbr1 in Ts1Cje; a mouse model for Down syndrome**  
 ATSUSHI SHIMOHATA\*, KAZUHIRO YAMAKAWA  
 Lab. for Neurogenetics, RIKEN-BSI, Saitama
- P-280 Infantile neuroaxonal dystrophy diagnosed at the age of 19: A case report**  
 TAKESHI YOSHIDA\*<sup>1</sup>, MASAHIRO TSUJI<sup>1</sup>, KENICHIRO KOBAYASHI<sup>2</sup>, MIEKO YOSHIOKA<sup>2</sup>  
<sup>1</sup> The Department of Pediatrics, Kobe City Medical Center General Hospital, Hyogo  
<sup>2</sup> Kobe City Pediatric and General Rehabilitation Center for the Challenged
- P-281 A case of congenital trigeminal anesthesia**  
 MIO WATANABE\*<sup>1</sup>, TAKASHI SHIIHARA<sup>1</sup>, NOBUKO TAKEZAWA<sup>2</sup>  
<sup>1</sup> Department of Neurology, Gunma Children's Medical Center  
<sup>2</sup> Takezawa child clinic
- P-282 A case of scleroderma en coup de sabre with CNS lesion**  
 TOSHIRO MAIHARA\*, YOSHIHIRO TAKESHITA, JUN IIO, YUJIRO KIMURA, TAKAKO MATSUMOTO, MICHIKO NONAKA  
 Hyogo Prefectural Tsukaguchi Hospital, Hyogo
- P-283 Clinical study of children with chronic headache**  
 TOMOYUKI NAKAZAWA\*<sup>1</sup>, NAOHITO ARII<sup>2</sup>, KENICHIRO KANEKO<sup>1</sup>, SHINPEI ABE<sup>3</sup>, MASAKO SAITOH<sup>3</sup>, AKIHISA OKUMURA<sup>3</sup>  
<sup>1</sup> Department of Pediatrics, Juntendo University Urayasu Hospital  
<sup>2</sup> Department of Pediatrics, Juntendo Shizuoka Hospital, Izunokuni  
<sup>3</sup> Department of Pediatrics, Juntendo University School of Medicine, Tokyo
- P-284 Evaluation of visual and auditory function by using NIRS: comparison with evoked potentials.**  
 KEISUKE SAEKI\*<sup>1</sup>, EIJI NAKAGAWA<sup>1</sup>, HIROSHI KOMETANI<sup>1</sup>, YUTAKA NONODA<sup>1</sup>, AYAKO MIYAHARA<sup>1</sup>, HIROSHI SAKUMA<sup>1</sup>, HIROFUMI KOMAKI<sup>1</sup>, YOSHIAKI SAITOU<sup>1</sup>, KENJI SUGAI<sup>1</sup>, MASAYUKI SASAKI<sup>1</sup>, ATSUKO GUNJI<sup>2</sup>, HIROKATA OHE<sup>3</sup>, IWA O KOBAYASHI<sup>4</sup>  
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