



Detailed Programme

09:00-11:00

MC 2 Hall



PRE-CONGRESS SYMPOSIUM: REVERSE PHENOTYPING AND PATTERN RECOGNITION IN GENETIC MALFORMATIONS OF THE BRAIN

Organised by the European Network on Brain Malformations (Neuro-MIG)

09:00-09:05 Welcome by the Action Chair **Grazia Mancini** (NETHERLANDS)

Part I: Approach to MCD

09:05-09:30 *Approach to prenatally diagnosed MCD*
Tally Lerman-Sagie (ISRAEL)

09:30-10:00 *Approach to postnatally diagnosed MCD*
Renske Oegema (NETHERLANDS)

10:00-10:30 *Diagnostic clues from the neurological examination*
Anna Jansen (BELGIUM)

10:30-11:00 *Pitfalls in the MCD diagnostic work-up*
Nataliya Di Donato (GERMANY)

11:00-11:30



Coffee Break

(for Neuro-MIG Symposium attendees)

11:30-13:00

MC 2 Hall



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Part II: MCD phenotyping

11:30-12:00 *Microcephaly*
Ghayda Mirzaa (USA)

12:00-12:30 *Polymicrogyria*
Andrew Fry (UNITED KINGDOM)

12:30-13:00 *Tubulinopathies and dyneinopathies*
Nadia Bahi-Buisson (FRANCE)

13:00-14:00



Lunch Break

(for Neuro-MIG Symposium attendees)

14:00-15:00

MC 2 Hall



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Part II: MCD phenotyping (continued)

14:00-14:30 *Lissencephaly*
Nataliya Di Donato (GERMANY)

14:30-15:00 *Heterotopia*
Renske Oegema (NETHERLANDS)

15:00-16:00

MC 2 Hall



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Part III: From the clinic to the lab and back

15:00-15:30 *Multidisciplinary interaction and MCD gene discovery*
Grazia Mancini (NETHERLANDS)

15:30-16:00 *Models to study brain development*
Carlos Cardoso (FRANCE)

19:00-19:50

Trianti Hall



OPENING SESSION

Chair: **Dimitrios Zafeiriou** (GREECE)

19:00-19:15 Welcome messages
Sameer Zuberi (UNITED KINGDOM)
Dimitrios Zafeiriou (GREECE)

19:15-19:30 *Women healers and physicians in the Greek World from antiquity to Byzantium*
Efstathios S. Papavasiliou (GREECE)

19:30-19:45 *Children in crisis: stress and poverty as an epigenetic factor in the Europe of 2019*
George P. Chrousos (GREECE)

19:45-19:50 *EPNS Linda de Meirleir Award presentation*

19:50-20:45

Trianti Hall



AICARDI AWARD LECTURE: Miss Understanding is the Greek Goddess of Clinical Research

Chair: **Sameer Zuberi** (UNITED KINGDOM)

Award recipient & speaker: **Lieven Lagae** (BELGIUM)

07:30-08:30

Mitropoulos Hall



EJPN AUTHORS' WORKSHOP

07:40-08:25

Trianti Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINAR 1A:
 CP – Aetiology, imaging and outcome**

07:40-08:00 **Antigone Papavasiliou** (GREECE)

08:00-08:20 **Andreas Sebastian Schröder** (GERMANY)

08:20-08:25 **Discussion**

07:40-08:25

Skalkotas Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINAR 1B:
 Early onset Epileptic Encephalopathy – Seizure semiology Video-session**

07:40-08:00 **Nadia Bahi-Buisson** (FRANCE)

08:00-08:20 **Mario Mastrangelo** (ITALY)

08:20-08:25 **Discussion**

07:40-08:25

MC 2 Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINAR 1C:
 Brain and the Skin**

07:40-08:00 **Coriene Catsman-Berrevoets** (NETHERLANDS)

08:00-08:20 **Zuhal Yapici** (TURKEY)

08:20-08:25 **Discussion**

07:40-08:25

MC 3 Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINAR 1D:
 Neuro-ophthalmology**

07:40-08:00 **Maja Steinlin** (SWITZERLAND)

08:00-08:20 **Eugen Boltshauser** (SWITZERLAND)

08:20-08:25 **Discussion**

Scientific Programme

NOTES



08:30-10:00

Trianti Hall



PLENARY SESSION 1: Emergency Neurology

Chairs: **Sameer Zuberi** (UNITED KINGDOM), **Dimitrios Zafeiriou** (GREECE)

08:30-09:00 *Unexplained coma*
Fenella Kirkham (UNITED KINGDOM)

09:00-09:30 *Status Epilepticus*
Lieven Lagae (BELGIUM)

09:30-10:00 *Acute Paralysis*
Wolfgang Müller-Felber (GERMANY)

10:00-10:30



Coffee Break

10:30-12:15

Trianti Hall



PARALLEL SESSION 1A: Epilepsy I

Chairs: **Dana Craiu** (ROMANIA), **Georgia Ramantani** (SWITZERLAND)

10:30-10:55 *Epilepsy – Precision therapy*
Alexis Arzimanoglou (FRANCE)

10:55-12:10 **Oral communications OC001-OC005**

OC001 | *Epidemiology, aetiology and genomics of drug-resistant epilepsies of early childhood: a national population-based prospective cohort study*

Joseph Symonds, Katherine Elliott, Andreas Brunklaus, Alice Jollands, Shelagh Joss, Martin Kirkpatrick, Stewart MacLeod, Ailsa McLellan, Daniela Pilz, Jay Shetty, Kirsty Stewart, Louise Diver, Sarah Gardiner, Julian Knight, Sameer Zuberi (UNITED KINGDOM)

OC002 | *Electrical Status Epilepticus in Sleep (ESES): A review of 59 paediatric patients*

Ruben Rocha, Joana Martins, Cristina Garrido, Inês Carrilho, Rui Chorão, Manuela Santos, Teresa Temudo, Sónia Figueiroa (PORTUGAL)

OC003 | *First symptoms and presentation at diagnosis of paediatric onset neuronal ceroid lipofuscinoses*

Blandine Dozières-Puyravel, Hala Nasser, Monique Elmaleh-Berges, Elisa Lopez Hernandez, Catherine Caillaud, Antoinette Gelot, Samia Pichard, Stéphane Auvin (FRANCE)

OC004 | *Efficacy and safety of Fenfluramine HCl oral solution in the treatment of Dravet Syndrome: pooled analysis of two Phase 3 clinical studies*

Lieven Lagae, Ingrid E. Scheffer, Boudewijn Gunning, Rocio Sánchez-Carpintero, J. Helen Cross, Rima Nababout, Tilman Polster, Renzo Guerrini, Federico Vigevano, Joseph Sullivan, Kelly G. Knupp, Elizabeth Thiele, Elaine Wirrell, Michael Scott Perry, Orrin Devinsky, Michael Lock, Arnold Gammaitoni, Gail M. Farfel, Bradley S. Galer, Arun Mistry, Anupam Agarwal, Glenn Morrison (BELGIUM, AUSTRALIA, NETHERLANDS, SPAIN, UNITED KINGDOM, FRANCE, GERMANY, ITALY, USA)

OC005 | *PAVES (Psychology Adding Value: Epilepsy Screening) Project – Identifying and addressing mental health problems in Epilepsy clinic setting*

Ailsa McLellan, Catriona George, Kirsten Verity, Michelle Small, Celia Brand, Richard Chin, Jay Shetty (UNITED KINGDOM)

12:10-12:15

Discussion

10:30-12:15

Skalkotas Hall



PARALLEL SESSION 1B: Neurogenetics I

Chairs: **Andreas Brunklaus** (UNITED KINGDOM), **Artemis Gika** (GREECE)

10:30-10:55

Neurogenetics: Diagnostics – Introduction on NBIA's

Holger Prokisch (GERMANY)

10:55-12:10

Oral communications OC006-OC010

OC006 | *Clinical, radiological and genetic findings in a cohort of 65 Polymicrogyria patients*

Dina Amrom, Nicolas Deconinck, Bernard Dan, Alec Aeby, Cynthia Prigogine, Anne Monier, Guillaume Smits, Ingrid Unterberger, Jacques Michaud, Jennifer Partlow, An Poduri, Maria Lehtinen, Richard Smith, William B. Dobyns, Christopher A. Walsh, Eva Andermann (BELGIUM)

OC007 | *A new neurodegenerative disorder characterized with cystic pontine degeneration and cerebellar atrophy due to BEND4 gene mutation*

Bülent Kara, Eylül Ece İşlek, Oya Uyguner, Hülya Maraş Genç, Murat Kasap (TURKEY)

OC008 | *Clinical and genetic spectrum of SCN2A-associated episodic Ataxia*

Niklas Schwarz, **Walid Fazeli** (GERMANY)

OC009 | *Neuroimaging findings as biomarkers of epilepsy risk and neurodevelopment at two years in patients with Tuberous Sclerosis Complex (TSC)*

Hanna M. Hulshof, Hugo J. Kuijf, Sergiusz Jozwiak, Katarzyna Kotulska, Paolo Curatolo, Arianna Benvenuto, Bernard Weschke, Kate Riney, Pavel Krsek, Martha Feucht, Rima Nabbout, Lieven Lagae, Jessie de Ridder, Anna Jansen, Eleonora Aronica, David Kwiatkowski, Willem M. Otte, Kees P.J. Braun, Floor E. Jansen (NETHERLANDS, POLAND, ITALY, GERMANY, AUSTRALIA, CZECH REPUBLIC, AUSTRIA, FRANCE, BELGIUM, USA)

OC010 | *176 cases of mitochondrial diseases with mitochondrial DNA variations in Chinese children*

Yuqing Shi, Fang Fang, Zhimei Liu, Danmin Shen, Manting Xu, Weihua Zhang, Jiuwei Li, Xiaotun Ren, Tongli Han, Changhong Ding, Junlan Lv (CHINA)

12:10-12:15

Discussion

10:30-12:15

MC 2 Hall



PARALLEL SESSION 1C: Neonatal Neurology I

Chairs: **Georgios Niotakis** (GREECE), **Volker Mall** (GERMANY)

10:30-10:55

Neuromonitoring

Ronit Pressler (UNITED KINGDOM)

10:55-12:10

Oral communications OC011-OC015

OC011 | *Neonatal spectral EEG and neurocognitive outcome at school age in premature infants without neurological complications*

Agnese Suppiej, Luca Vedovelli, Patrizia Silvia Bisiacchi, Elisa Cainelli (ITALY)

OC012 | *The effect of fetally open, fetoscopic and postnatal Myelomeningocele closure on neuromuscular outcome in Spina Bifida Aperta*

Renate Verbeek, Agnieszka Pastuszka, Tomasz Koszutski, Axel Heep, Han van der Hoeven, Eelco Hoving, **Deborah Sival** (NETHERLANDS, POLAND, UNITED KINGDOM)

OC013 | *Inhibition of CD47 enhances Erythrophagocytosis by modulating microglial M2 polarization after experimental neonatal intraventricular haemorrhage*

Shanshan Mao, Dongming Zhou, Fusheng Gao (CHINA)

OC014 | *Protective effects of Recombinant Human Growth Hormone (rhGH) on hypoxic developmental neurons in primary cell cultures*

Susan Jung, Klara Terörde, Corinna Holzinger, Gudrun Boie, Helmuth-Günther Dörr, Regina Trollmann (GERMANY)

OC015 | *Neurologic comorbidities in extremely preterm born children - Neurodevelopmental and neurological disorders*

Maria Hafström, Karin Källén, Kerstin Hellgren, Karel Marsel, Fredrik Serenius, Aijaz Farooqi, Karin Stjernqvist, Bo Strömberg (SWEDEN, NORWAY)

12:10-12:15

Discussion

10:30-12:15

MC 3 Hall



PARALLEL SESSION 1D: Migraine and Miscellaneous

Chairs: **Florian Heinen** (GERMANY), **Evangelos Paraskevoulakos** (GREECE)

10:30-10:55 *Migraine in children – A brain and muscle issue?*
Florian Heinen (GERMANY)

10:55-12:10 **Oral communications OC016-OC020**

OC016 | *Establishing early diagnosis and treatment of Paediatric Autoimmune Encephalitis patients: how useful are the current diagnostic criteria?*
Christina Benetou, Stavros Tsagkaris, Ming Lim (UNITED KINGDOM)

OC017 | *Felbamate for the treatment of infantile spasms: 10 years of French experience*
Blandine Dozieres-Puyravel, Hala Nasser, Vanina Bellavoine, Adina Iléa, Catherine Delanoé, Stéphane Auvin (FRANCE)

OC018 | *NARS2 is a mitochondrial gene of developmental and epileptic encephalopathy in childhood*
Patrick Van Bogaert, Julia Guillou, Vincent Procaccio, Céline Bris, Bertrand Isidor, Magalie Barth (FRANCE)

OC019 | *Patterns of daily activity among youth with Epilepsy*
Gabriel Ronen, Ian Janssen (CANADA)

OC020 | *De novo mutations in the neuronal vesicular SNARE VAMP2 affect synaptic membrane fusion and cause neurodevelopmental disorders with Epilepsy and hyperkinetic movements*
Vincenzo Salpietro, Nancy T. Malintan, Isabel Llano, Christine G. Spaeth, Stephanie Efthymiou, Pasquale Striano, Jana Vandrovцова, Maria C. Cutrupi, Roberto Chimenz, Emanuele David, Gabriella Di Rosa, Anna Marce Grau, Miquel Raspall-Chaure, Elena Martin-Hernandez, Federico Zara, Carlo Minetti, Oscar D. Bello, Rita De Zorzi, Sara Fortuna, Andrew Dauber, Mariam Alkhawaja, Tipu Sultan, Kshitiji Mankad, Antonio Vitobello, Quentin Thomas, Frederic Tran Mau-Them, Laurence Faivre, Francisco Martinez-Azorin, Carlos E. Prada, Alfons Macaya, Dimitri M. Kullmann, James E. Rothman, Shyam S. Krishnakumar, Henry Houlden (ITALY, UNITED KINGDOM, SPAIN, USA, JORDAN, PAKISTAN, FRANCE)

12:10-12:15 **Discussion**

12:15-13:00



Lunch Break

12:15-13:00

Poster Area



MODERATED POSTER TRACK 1

SESSION 1 | Basic science, Cerebrovascular disorders, Epidemiology and follow-up, Fetal Neurology
P01-01 to P01-38 *See page 80*

Chairs: **Argirios Dinopoulos** (GREECE), **Fenella Kirkham** (UNITED KINGDOM)

SESSION 2 | Epilepsy: diagnosis and investigations
P02-01 to P02-52 *See page 82*

Chairs: **Pinelopi Dragoumi** (GREECE), **Dana Craiu** (ROMANIA)

SESSION 3 | Inflammatory Diseases of the CNS
P03-01 to P3-063 *See page 86*

Chairs: **Sotiria Mastroyianni** (GREECE), **Banu Anlar** (TURKEY)

13:00-14:30

Trianti Hall



INDUSTRY SPONSORED SYMPOSIUM 1

See page 137

13:00-14:30

Skalkotas Hall



INDUSTRY SPONSORED SYMPOSIUM 2

See page 139

13:00-14:30

MC 2 Hall



INDUSTRY SPONSORED SYMPOSIUM 3

See page 141

13:00-14:30

MC 3 Hall



INDUSTRY SPONSORED SYMPOSIUM 4

See page 143

13:00-14:30

Mitropoulos Hall



INDUSTRY SPONSORED SYMPOSIUM 5

See page 144

14:30-16:00 **Trianti Hall** 

PLENARY SESSION 2: Sleep

Chairs: **Peter Baxter** (UNITED KINGDOM), **Athanasios Covanis** (GREECE)


14:30-15:00 *Sleep, learning and memory*
Reto Huber (SWITZERLAND)

15:00-15:30 *Sleep and epilepsy*
Floor Jansen (NETHERLANDS)

15:30-16:00 *Treatment of sleep disorders*
Fabio Pizza (ITALY)

16:00-16:30 

Coffee Break

16:30-18:15 **Trianti Hall** 

PARALLEL SESSION 2A: Congenital Myasthenia, Neuromuscular and Neurogenetics

Chairs: **Thomas Sejersen** (SWEDEN), **Sotiria Mastroyianni** (GREECE)

16:30-16:55 *Congenital Myasthenia*
Ulrike Schara (GERMANY)

16:55-18:10 **Oral communications OC021-OC025**

OC021 | *Gene-replacement therapy in Spinal Muscular Atrophy Type 1 (SMA1): long-term follow-up from the Onasemnogene Apeparovvec Phase 1/2a clinical trial*
 Jerry R. Mendell, Kelly J. Lehman, Markus McColly, Linda P. Lowes, Lindsay N. Alfano, Natalie F. Miller, Megan A. Iammarino, Kathleen Church, Francis G. Ogrinc, Elaine Kernbauer, Shivani Shah, James L'Italien, Douglas M. Sproule, **Douglas E. Feltner** (USA)

OC022 | *Longer-term assessment of Nusinersen treatment in children with later-onset spinal muscular atrophy who enrolled in CS2/CS12: an interim analysis of the SHINE Study*

Basil T. Darras, Claudia Chiriboga, Susan T. Iannaccone, Kathryn Swoboda, Richard Finkel, Mar Tulinius, Kayoko Saito, Jacqueline Montes, Laurence Mignon, Peng Sun, Ishir Bhan, Sarah Gheuens, Sandra P. Reyna, Wildon Farwell, Darryl C. De Vivo (USA, SWEDEN, JAPAN)

OC023 | *High diagnostic yield of syndromic intellectual disability by Next-Generation Sequencing techniques-NGS: whole exome sequencing and targeted NGS*

Pilar Tirado-Requero, Fernando Santos-Simarro, Ramón Velazquez-Fragua, Sixto Garcia-Miañur, Angela Del Pozo, Virginia Rufo Rabadán, Gloria López-Sobrino, Mar García-Romero, Elena Vallespin, Samuel Ignacio Pascual-Pascual, Maria Palomares-Bralo (SPAIN)

OC024 | *β -III Spectrin gene variants in non-progressive congenital Ataxias: widening the associated phenotype*

Sergio Aguilera-Albesa, Lubov Blumkin, Roser Pons, Maria Eugenia Yoldi, Raúl Etxandi, Dorit Lev, Tally Lerman-Sagie, Katerina Anagnostopoulou, Amparo Andrés-Bordería, Vincenzo Lupo, Belén Pérez-Dueñas, Carmen Espinós (SPAIN, ISRAEL, GREECE)

OC025 | *SUPV3L1 mutation: a novel gene causing human disease*

Lydia M.C. Green, Gayatri Vadlamani, James Poulter, Eamonn Sheridan, John H. Livingston (UNITED KINGDOM)

18:10-18:15

Discussion

16:30-18:15

Skalkotas Hall



PARALLEL SESSION 2B: Global Infections and Inflammatory Diseases of the CNS

Joint session with ICNA

Chairs: **Michèl A.A.P. Willemsen** (NETHERLANDS), **Antigone Papavasiliou** (GREECE)

16:30-16:55

Encephalitis

Richard Idro (UGANDA)

16:55-18:10

Oral communications OC026-OC030

OC026 | *Fingolimod treatment improved quality of life in paediatric patients with Multiple Sclerosis: PARADIGMS study*

Lauren Krupp, Brenda Banwell, Tanuja Chitnis, Kumaran Deiva, Jutta Gärtner, Angelo Ghezzi, Peter Huppke, Emmanuelle Waubant, Gregory L. Pearce, Annik K. Laflamme, Rajesh Karan (USA, FRANCE, GERMANY, ITALY, SWITZERLAND)

OC027 | *The 2017 McDonald Diagnostic criteria: validation in the French Paediatric Onset Multiple Sclerosis cohort*

Aliénor de Chalus, Gonzalo Barraza, Hélène Maurey, Béatrice Husson, Nicolas Tchitchek, Kumaran Deiva (FRANCE)

OC028 | *Improved performance of the 2017 McDonald criteria for diagnosis of Multiple Sclerosis in children in a real-life cohort*

Omar Abdel-Mannan, Wallace Brownlee, Kshitij Mankar, WK 'Kling' Chong, Alan Thompson, Ming Lim, Evangeline Wassmer, Cheryl Hemingway, Frederik Barkhof, Olga Ciccarelli, Yael Hacohen (UNITED KINGDOM)

OC029 | *Use of disease-modifying therapies in paediatric relapsing remitting Multiple Sclerosis in the UK: a multi-centre retrospective study*

Omar Abdel-Mannan, Celeste Manchoon, Satvinder Mahal, Christina Benetou, Sarah Crichton, Ming Lim, Yael Hacohen, Cheryl Hemingway (UNITED KINGDOM)

OC030 | *Progress in the management of paediatric-onset Multiple Sclerosis over the last decade*

Aphra Luchesa Smith, Ming Lim, Yael Hacohen, Wallace Brownlee, Harriet Clarkson, Katie Hanson, Cheryl Hemingway (UNITED KINGDOM)

18:10-18:15

Discussion

16:30-18:15

MC 2 Hall



PARALLEL SESSION 2C: Movement Disorders

Chairs: **Maria Kyriazi** (GREECE), **Pelagia Vorgia** (GREECE)

16:30-16:55 *Tics, Tourette Syndrome and Movement Disorders*
Roser Pons (GREECE)

16:55-18:10 **Oral communications OC031-OC035**

OC031 | *Exposure and response prevention in a large Danish clinical cohort of children and adolescents with Tourette Syndrome*
Camilla Sørensen, Liselotte Skov, Judy Grejsen, Lone Aaslet, Nanette Mol Debes (DENMARK)

OC032 | *Clinical assessment of Myoclonus in a cohort of 41 patients with Myoclonus Dystonia Syndrome due to SGCE mutations*
Maria I. Vanegas, Anna Marcé-Grau, Laura Martí-Sánchez, Sara Mellid, Heidy Baide-Mairena, Marta Correa-Vela, Alfons Macaya, Belén Pérez-Dueñas (SPAIN)

OC033 | *Patterns of baseline cerebral [18F]Fluoro-Deoxy -Glucose Positron Emission Tomography (FDG-PET) vary with Dystonia aetiology, baseline severity and Neurophysiology and Deep Brain Stimulation (DBS) Neuromodulation outcomes*
Stavros Tsagkaris, Verity McClelland, Daniel Lamsden, Margaret Kaminska, Lesley Baker, Sinead Barkey, Majju Kattelus, Sarah Perides, Hortensia Gimeno, Harutomo Hasegawa, Keyoumars Ashkan, Richard Selway, Ata Siddiqui, Eric Guedj, Alexander Hammers, Jean-Pierre Lin (UNITED KINGDOM, FRANCE)

OC034 | *Genetic mutations in children with Spastic-Dystonic Cerebral Palsy of cryptogenic aetiology*
 Antigone Papavasiliou, **Nikoletta Smyrni**, Somayeh Bakhtiari, Sotiria Mastroyianni, Charalambos Kotsalis, Bethany Norton, Michael Kruer (GREECE, USA)

OC035 | *The genetic landscape of Complex Childhood-Onset Hyperkinetic Movement Disorders*
Belén Pérez Dueñas, Kathleen Gorman, Dario Ortigoza-Escobar, Alfons Macaya, Federica Danti, Heidy Baide, Apostolos Papandreou, Joanne Ng, Esther Meyer, Shekeeb Mohammed, Martin Smith, Francesco Muntoni, Pinki Munot, Johanna Uusimaa, Paivi Vieira, Eammon Sheridan, Renzo Guerrini, Jan Cobben, Salem Yilmaz, Elisa De Grandis, Russell Dale, Roser Pons, Kathryn Peall, Vincenzo Leuzzi, Manju Kurian (SPAIN, UNITED KINGDOM, ITALY, AUSTRALIA, FINLAND, TURKEY, GREECE)

18:10-18:15 **Discussion**

16:30-18:15

MC 3 Hall



PARALLEL SESSION 2D: Neurometabolic Disorders I

Chairs: **Jaume Campistol Plana** (SPAIN), **Helen Michelakakis** (GREECE)

16:30-16:55 *Biomarkers for a quick diagnosis*
Barbara Plecko (AUSTRIA)

16:55-18:10 **Oral communications OC036-OC040**

OC036 | *Phase 2/3 trial to assess the safety and efficacy of Lenti-D Hematopoietic Stem Cell Gene Therapy for Cerebral Adrenoleukodystrophy*

Caroline Sevin, Florian Eichler, Christine Duncan, Paul J. Orchard, Satiro De Oliveira, Adrian J. Thrasher, Troy C. Lund, Paul Gissen, Hernan Amartino, Nicholas J.C. Smith, Kristen Pappas, Emily Sheldon-Waniga, Elizabeth McNeil, Patrick Aubourg, David A. Williams (FRANCE, USA, UNITED KINGDOM, ARGENTINA, AUSTRALIA)

OC037 | *Effect of intrathecal recombinant human Arylsulfatase A Enzyme Replacement Therapy on structural brain MRI in children with Metachromatic Leukodystrophy*

Samuel Groeschel, Lucas Bastian Amedick, Lars G. Hanson, James Wu, Leslie Jacobsen, Margaret Wasilewski, John Port, Ingeborg Krägeloh-Mann (GERMANY, DENMARK, USA)

OC038 | *Long term effect of Lentiviral (LV) Hematopoietic Stem Cell Gene Therapy (HSC-GT) on the nervous system in early-onset Metachromatic Leukodystrophy (MLD)*

Francesca Fumagalli, Valeria Galbi, Maria Sessa, Alberto Zambon, Cristina Baldoli, Federica Cugnata, Paola M.V. Rancoita, Serena Acquati, Daniela Redaelli, Simona Miglietta, Sara Magni, Salvatore Recupero, Francesca Ferrua, Federica Barzaghi, Maria Pia Cicalese, Maddalena Migliavacca, Francesca Tucci, Vera Gallo, Francesca Ciotti, Maddalena Fraschini, Marina Sarzana, Paolo Silvani, Ivana Spiga, Maurizio Ferrari, Marcella Facchini, Sara Locatelli, Gigliola Antonioli, Stefano Zancan, Andrea Calabria, Eugenio Montini, Giada Farinelli, Francesco Morena, Jesus Segovia, Laetitia C. Schwab, Gerald Downey, Michela Gabaldo, Sabata Martino, Cleclia Di Serio, Fabio Ciceri, Giancarlo Comi, Maria Grazia Natali Sora, Maria Ester Bernardo, Luigi Naldini, Alessandra Biffi, Alessandro Aiuti (ITALY, UNITED KINGDOM)

OC039 | *An observational study of outcomes of Allogeneic Hematopoietic Stem Cell Transplant in patients with Cerebral Adrenoleukodystrophy (CALD)*





Florian Eichler, Jaap Jan Boelens, Robert Chiesa, Christine Duncan, Simon A. Jones, Neena Kapoor, Jörn-Sven Kühl, Vinod K. Prasad, Sara Jaffer, Jenfue Maa, Elizabeth McNeil, Paul J. Orchard (USA, UNITED KINGDOM, GERMANY)

OC040 | *Cerliponase Alfa for the treatment of CLN2 Disease in an expanded patient cohort including children younger than three years: interim results from an ongoing clinical study*

Angela Schulz, Emily de los Reyes, Nicola Specchio, Paul Gissen, Heather Cahan, Peter Slasor, Temitayo Ajayi (GERMANY, USA, ITALY, UNITED KINGDOM)

18:10-18:15

Discussion

18:30-20:00	Trianti Hall	
INDUSTRY SPONSORED SYMPOSIUM 6		See page 145
18:30-20:00	Skalkotas Hall	
INDUSTRY SPONSORED SYMPOSIUM 7		See page 147
18:30-20:00	MC 2 Hall	
INDUSTRY SPONSORED SYMPOSIUM 8		Slot not allocated
18:30-20:00	MC 3 Hall	
INDUSTRY SPONSORED SYMPOSIUM 9		See page 149
18:30-20:00	Mitropoulos Hall	
INDUSTRY SPONSORED SYMPOSIUM 10		Slot not allocated

07:40-08:25

Trianti Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINARS 2A:
 MRI – How to read brain MRI?**

07:40-08:00 *MRI of normal Myelination, delayed Myelination and Hypomyelination*
Nicole Wolf (NETHERLANDS)

08:00-08:20 *MRI of other genetic white matter pathologies*
Marjo van der Knaap (NETHERLANDS)

08:20-08:25 **Discussion**

07:40-08:25

Skalkotas Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINARS 2B:
 Ketogenic and other diets – Indications**

07:40-08:00 **Athanasios Evangeliou** (GREECE)

08:00-08:20 **Argirios Dinopoulos** (GREECE)

08:20-08:25 **Discussion**

07:40-08:25

MC 2 Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINARS 2C:
 Approach to dissociative symptoms**

07:40-08:00 **Rob Forsyth** (UNITED KINGDOM)

08:00-08:20 **Alexander Münchau** (GERMANY)

08:20-08:25 **Discussion**

07:40-08:25

MC 3 Hall



**INTERACTIVE EARLY MORNING TEACHING SEMINARS 2D:
 Rhabdomyolysis**

07:40-08:00 **Haluk Topaloglu** (TURKEY)

08:00-08:20 **Thomas Sejersen** (SWEDEN)

08:20-08:25 **Discussion**

08:30-10:00

Trianti Hall



PLENARY SESSION 3: Gene therapy

Chairs: **Eugenio Mercuri** (ITALY), **Sotirios Youroukos** (GREECE)

08:30-09:00 *Current applications of gene therapy in Neuromuscular Disorders*
Basil T. Darras (USA)

09:00-09:30 *SCT and gene therapy in Neurometabolic Disorders*
Florian Eichler (USA)

09:30-10:00 *New methodologies in gene therapy*
Stephanie Schorge (UNITED KINGDOM)

10:00-10:30



Coffee Break

10:30-12:15

Trianti Hall



PARALLEL SESSION 3A: Epilepsy II

Chairs: **Pavel Kršek** (CZECH REPUBLIC), **Evangelos Pavlou** (GREECE)

10:30-10:55 *Unstable Epilepsy and cluster seizures*
Helen Cross (UNITED KINGDOM)

10:55-12:10 **Oral communications OC041-OC045**

OC041 | *Death in SCN1A positive Dravet Syndrome – Findings from a 10-year follow-up of 141 cases*

Andreas Brunklaus, Ismael Ghanty, Liam Dorris, Sameer M. Zuberi (UNITED KINGDOM)

OC042 | *Natural history of Sturge-Weber Syndrome in 21 patients and meta-correlation of 1.431 cases in the literature*

Maria Chiara Consentino, Roberta Criscione, Andrea Domenico Praticò, Agata Polizzi, Piero Pavone, Raffaele Falsaperla, Giuseppe Belfiore, Stefano Palmucci, Massimo Di Pietro, Pietro Milone, Vito Sofia, Martino Ruggieri (ITALY)

OC043 | *Perinatal Thalamic Injury: MRI and diffusion tensor imaging predictors of Electrical Status Epilepticus in sleep and long-term neurodevelopmental outcome*
Bart van den Munckhof, Anne F. Zwart, Lauren C. Weeke, Nathalie H.P. Claessens, Joost D.J. Plate, Alexander Leemans, Hugo J. Kuijf, Manon J.N. Benders, Kees P.J. Braun, Linda S. de Vries, Floor E. Jansen (NETHERLANDS)

OC044 | *EEG in infants with Tuberous Sclerosis Complex (TSC) predicts developmental outcome at the age of 2 years*

Jessie De Ridder, Birgit Verhelle, Jan Vervisch, Katrien Lemmens, Lyudmila Yepiskoposyan, Sergiusz Józwiak, Katarzyna Kotulska, Paolo Curatolo, Arianna Benvenuto, Romina Moavero, Eleonora Aronica, Anna Jansen, Floor Jansen, David Kwiatkowski, Bernard Weschke, Kate Riney, Pavel Kresk, Martha Feucht, Rima Nabbout, Lieven Lagae (BELGIUM, POLAND, ITALY, NETHERLANDS, USA, GERMANY, AUSTRALIA, CZECH REPUBLIC, AUSTRIA, FRANCE)

OC045 | *Seizure induced by cortical stimulation: is there a clinical value in the paediatric population?*

Luca De Palma, Giusy Carfi Pavia, Alessandro De Benedictis, Ilaria Tondo, Simona Cappelletti, Alessandro Ferretti, Maria Camilla Rossi Espagnet, Carlo Efisio Marras, Federico Vigevano, Nicola Specchio (ITALY)

12:10-12:15

Discussion

10:30-12:15

Skalkotas Hall



PARALLEL SESSION 3B: Neurogenetics II

Chairs: **Styliani Fidani** (GREECE), **Maria Kinali** (UNITED KINGDOM)

10:30-10:55

New therapies

Robert Steinfeld (SWITZERLAND)

10:55-12:10

Oral communications OC046-OC050

OC046 | *The use of a patient-centric neuronal cell model of Beta-Propeller Protein-Associated Neurodegeneration (BPAN) as a drug screening platform to develop novel therapies*

Apostolos Papandreou, Serena Barral, Alexander Agrotis, Tanya Singh, An-Sofie Lenaerts, Ying Shao, Daniel Little, Penelope Hogarth, Susan Hayflick, Ludovic Vallier, Janos Kriston-Vizi, Paul Gissen, Manju Kurian, Robin Ketteler (UNITED KINGDOM, USA)

OC047 | *Comprehensive analysis of GABA (A1R) developmental alterations in Rett Syndrome, a novel therapeutic target*

Alfonso Oyarzabal, Clara Xiol, Alba Aina Castells, Cristina Grau, Mar O'Callaghan, Guerau Fernandez, Soledad Alcántara, Mercé Pineda, Judith Armstrong, Xavier Altafaj, Àngels García-Cazorla (SPAIN)

OC048 | *Hematopoietic Stem Cell Gene Therapy for Mucopolysaccharidosis Type I, Hurler Variant (MPS-IH)*

Francesca Fumagalli, Maria Ester Bernardo, Francesca Tucci, Francesca Ciotti, Marina Sarzana, Silvia Pontesilli, Cristina Baldoli, Chiara Filisetti, Serena Acquati, Daniela Redaelli, Erika Zonari, Attilio Rovelli, Rossella Parini, Giancarlo La Marca, Luigi Naldini, Bernard Gentner, Alessandro Aiuti (ITALY)

OC049 | *The MRI patterns may be an important clue in the early diagnosis of CLN2*

Kürşad Aydın, Cengiz Havalı, Ayşe Kartal, Ayşe Serdaroğlu, Şenay Haspolat (TURKEY)

OC050 | *Brain white matter abnormalities associated with copy number variants*

Ayelet Zerem, Nitzan Vigdorovich, Liat Ben Sira, Ifat Kaner, Ronit Precel, Lubov Blumkin, Keren Yosovich, Zachary Cross, Adeline Vanderver, Dorit Lev, Tally Sagie (ISRAEL, USA)

12:10-12:15

Discussion

10:30-12:15

MC 2 Hall



PARALLEL SESSION 3C: Neonatal Neurology II

Chairs: **Helen Skouteli** (GREECE), **Linda de Vries** (NETHERLANDS)

10:30-10:55 *Neonatal Neurology and treatment*

Linda de Vries (NETHERLANDS)

10:55-12:10 **Oral communications OC051-OC055**

OC051 | *Genotype-phenotype correlations in Italian patients with KCNQ2-related Epileptic Encephalopathy*

Ganna Balagura, Pasquale Striano, Maria Stella Vari, Federica Malerba, Vincenzo Salpietro, Federico Zara, NA Collaborative Group of Genetic Commission Italian League Against Epilepsy - LICE (ITALY)

OC052 | *A modified paediatric ASPECTS score above seven predicts poorer outcomes following acute symptomatic Neonatal Arterial Stroke*

Mark Mackay, Nedelina Slavova, Manuela Pastore Wapp, Sebastian Grunt, Belinda Stojanovski, Susan Donnath, Maja Steinlin (AUSTRALIA)

OC053 | *Mineralizing Angiopathy with infantile Basal Ganglia Stroke after minor injury: case report and two cohorts*

Alice Lording, Fenella Kirkham, Harriet Joy, Georgina Bird-Lieberman, Katharine Forrest (UNITED KINGDOM)

OC054 | *22-year retrospective analysis of 120 paediatric Stroke-like episodes: clinical, electrophysiological, radiological description and insight into Pathophysiology*

Chloe Durreleman, David Grevent, Nathalie Boddart, Anna Kaminska, Marlene Rio, Giulia Barcia, Rima Nabbout, **Isabelle Desguerre** (FRANCE)

OC055 | *Recombinant Human Growth Hormone (rhGH) and Erythropoietin (rhEPO) exert synergistic neuroprotective effects against Hypoxic Brain Injury in neonatal mice*

Susan Jung, Klara Terörde, Helmuth-Günther Dörr, **Regina Trollmann** (GERMANY)

12:10-12:15

Discussion

10:30-12:15

MC 3 Hall



PARALLEL SESSION 3D: White matter

Chairs: **Marjo van der Knaap** (NETHERLANDS), **Marios Kaliakatsos** (UNITED KINGDOM)

10:30-10:55 *The pathophysiology of the vanishing white matter disease and other Leucodystrophies*
Marianne Bugiani (NETHERLANDS)

10:55-12:10 **Oral communications OC056-OC060**

OC056 | *Neutrophil-to-Lymphocyte Ratio (NLR): a potential biomarker for measuring disease activity in paediatric MOG+ Relapsing Demyelination Syndrome (RDS)*

Christina Benetou, Francesco Berti, Cheryl Hemingway, Yael Hacothen, Ming Lim (UNITED KINGDOM)

OC057 | *Hypomyelinating Leukodystrophy by loss of the sphingolipid desaturase *degs1*: clinical profile, biomarkers and potential treatment with Fingolimod*
Sergio Aguilera-Albesa, Agatha Schluter, Stephane Fourcade, Laura Planas, Nathalie Launay, Maria Eugenia Yoldi Yoldi, Carlos Casanovas, Montserrat Ruiz, Angels Garcia-Cazorla, Marc Patterson, Odile Boespflug-Tanguy, Aurora Pujol (SPAIN, USA, FRANCE)

OC058 | *Leukoencephalopathy with Brainstem and Spinal cord involvement and Lactate elevation (LBSL): atypical MRI patterns in early severe forms*

Menno D. Stellingwerff, C. E. Erasmus, P. Topaloglu, G. Chow, S. Hughes, S. Lebon, C.A. Stutterd, A. Sanchez-Valle, Marjo Van der Knaap (NETHERLANDS, TURKEY, UNITED KINGDOM, SWITZERLAND, AUSTRALIA, USA)

OC059 | *Neurofilament light chain is a useful biomarker in paediatric patients with Multiple Sclerosis*

Marie-Christine Reinert, Harald Kropshofer, Christian Barro, Jens Wuerfel, Pascal Benkert, Zuzanna Michalak, Wolfgang Brück, Peter Huppke, Davorka Tomic, David Leppert, Jens Kuhle, Jutta Gärtner (GERMANY, SWITZERLAND)

OC060 | *The integrated stress response as therapeutic target in vanishing white matter*

Marjo van der Knaap, Stephanie Dooves, Lisanne Wisse, Marianna Bugiani, Vivi Heine, Truus Abbink (NETHERLANDS)

12:10-12:15

Discussion

12:15-13:00



Lunch Break

12:15-13:00

Poster Area



MODERATED POSTER TRACK 2

SESSION 4 | Epilepsy: medical and surgical treatment, Neuro-oncology, Neuro-psychiatry
P04-01 to P04-35

See page 92

Chairs: **Efterpi Pavlidou** (GREECE), **Georgia Ramantani** (SWITZERLAND)

SESSION 5 | Genetics
P05-01 to P05-52

See page 95

Chairs: **Maria Kinali** (UNITED KINGDOM), **Sotirios Youroukos** (GREECE)

SESSION 6 | Metabolic Disorders
P06-01 to P06-34

See page 98

Chairs: **Barbara Plecko** (AUSTRIA), **Jutta Gartner** (GERMANY)

SESSION 7 | Miscellaneous
P07-01 to P07-35

See page 101

Chairs: **Iliada Nakou** (GREECE), **Francisco Carratalá-Marco** (SPAIN)

13:00-14:30

Trianti Hall



INDUSTRY SPONSORED SYMPOSIUM 11

See page 151

13:00-14:30

Skalkotas Hall



INDUSTRY SPONSORED SYMPOSIUM 12

See page 152

13:00-14:30

MC 2 Hall



INDUSTRY SPONSORED SYMPOSIUM 13

See page 153

13:00-14:30

MC 3 Hall



INDUSTRY SPONSORED SYMPOSIUM 14

See page 155

13:00-13:30

Mitropoulos Hall



INDUSTRY SPONSORED SYMPOSIUM 15

See page 157

14:30-16:00

Trianti Hall



PLENARY SESSION 4: ERN and transition

Chairs: **Lieven Lagae** (BELGIUM), **Efstathia Katsarou** (GREECE)

14:30-15:00

Epilepsy

Alexis Arzimanoglou (FRANCE)

15:00-15:30

Neuromuscular Disorders

Volker Straub (UNITED KINGDOM)

15:30-16:00

Neurometabolic Disorders

Robin Lachmann (UNITED KINGDOM)

07:40-08:25

Trianti Hall



INTERACTIVE EARLY MORNING TEACHING SEMINARS 3A:
Non-epileptic Paroxysmal Disorders

07:40-08:00 **Zvonka Rener-Primec** (SLOVENIA)

08:00-08:20 **Federico Vigevano** (ITALY)

08:20-08:25 **Discussion**

07:40-08:25

Skalkotas Hall



INTERACTIVE EARLY MORNING TEACHING SEMINARS 3B:
Fetal Neurology – Prenatal counseling by the Paediatric Neurologist

07:40-08:00 **Tally Lerman-Sagie** (ISRAEL)

08:00-08:20 **Marie-Laure Moutard** (FRANCE)

08:20-08:25 **Discussion**

07:40-08:25

MC 2 Hall



INTERACTIVE EARLY MORNING TEACHING SEMINARS 3C:
Movement Disorders

07:40-08:00 **Jean-Pierre Lin** (UNITED KINGDOM)

08:00-08:20 **Michèl A.A.P. Willemsen** (NETHERLANDS)

08:20-08:25 **Discussion**

07:40-08:25

MC 3 Hall



INTERACTIVE EARLY MORNING TEACHING SEMINARS 3D:
Neurodevelopmental examination of infants

07:40-08:00 **Ethymia Vargiami** (Greece)

08:00-08:20 **Dimitrios Zafeiriou** (Greece)

08:20-08:25 **Discussion**

08:30-10:00

Trianti Hall



PLENARY SESSION 5: Trial, Ethics and Translational Research

Chairs: **Barbara Plecko** (AUSTRIA), **Ethymia Vargiami** (GREECE)

08:30-09:00 *Child Neurology – The need for standardized clinical trials*
Finbar O'Callahan (UNITED KINGDOM)

09:00-09:30 *Model systems informing translational research*
Jutta Gärtner (GERMANY)

09:30-10:00 *Ethical considerations and trial designs in rare diseases*
Steve Pavlakis (USA)

10:00-10:30



Coffee Break

10:30-12:15

Trianti Hall



PARALLEL SESSION 4A: Neurometabolic Disorders II

Chairs: **Roser Pons** (GREECE), **Robert Steinfeld** (SWITZERLAND)

10:30-10:55 *Neurotransmitter Disorders*
Thomas Opladen (GERMANY)

10:55-12:10 **Oral communications OC061-OC065**

OC061 | *Proteomic study on neurotransmitter defects find several biomarkers pointing towards neurodevelopment dysregulation*

Alba Tristán-Noguero, Marta Molero, Tessa Wassenberg, Marcel Verbeek, Michel Willemsen, Thomas Opladen, Kathrin Jeltsch, Roser Pons, Beat Thony, Gabriella Horvath, Zuhail Yapici, Jennifer Friedmann Friedmann, Keith Hyland, Guillermo Eduardo Agosta, Rafael Artuch, Eva Borràs, Eduard Sabidó, Àngels García-Cazorla (SPAIN, NETHERLANDS, GERMANY, GREECE, SWITZERLAND, CANADA, TURKEY, USA, ARGENTINA)

OC062 | *Neurotransmitter depletion in early Epileptic Encephalopathies and possible therapeutic options*

Natalia Julià-Palacios, Cristina Molina, Elisenda Cortès-SaladelaFont, **Leticia Pias**, Maria Sigatulina, Maria del Mar O'Callaghan, Carme Fons, Alia Ramirez, Judith Armstrong, Rafael Artuch, Aida Ormazabal, Àngels García-Cazorla (SPAIN)

OC063 | *Characterization of the first whole-body KO mouse model for BPAN*
Arcangela Iuso (GERMANY)

OC064 | *The natural history of Polymerase Gamma (POLG) Disease: a study of 155 cases*

Omar Hikmat, Karin Naess, Martin Engvall, Claus Klingenberg, Magnhild Rasmussen, Chantal M.E. Tallaksen, Eylert Brodtkorb, Elsebet Ostergaard, I.F.M de Coo, Leticia Pias-Peleiteiro, Pirjo Isohanni, Johanna Uusimaa, Niklas Darin, Shamima Rahman, Laurence Bindoff (NORWAY, SWEDEN, DENMARK, NETHERLANDS, SPAIN, FINLAND, UNITED KINGDOM)

OC065 | *Unrevealing the molecular diagnosis and Magnetic Resonance Imaging abnormalities of a multicentre-based cohort of children with Leigh Syndrome*

Heidy Baide Mairena, Laura Martí-Sánchez, Viktoria Torbe, Juan-Darío Ortigoza-Escobar, José Carlos Cabrera-López, Marcos Madruga Garrido, Olga Alonso-Luengo, Pilar Quijada-Fraile, Elena Martín-Hernández, María Teresa García-Silva, Ramón Velásquez-Fragua, Luis González Gutiérrez-Solana, Cristina Cáceres-Marzal, Itxaso Martí-Carrera, Tajul Arifin Bin Tajudin, Elizabeth Schuler, Hila Ben Pazi, Sergio Aguilera-Albesa, Eduardo López-Laso, Koldo Aldamiz, Antonia Ribes, Luca Pollini, S Gallosi, Vincenzo Leuzzi, L. Perez-Gay, Anna Marcè-Grau, Lidia Carreño, Elena García-Arumi, Marta Correa-Vela, Angel Sanchez-Montanez, Ignacio Delgado, Elida Vazquez, Roser Pons, Mireia Del Toro, Alfons Macaya, Belén Pérez-Dueñas (SPAIN, GREECE, ISRAEL, MALAYSIA, GERMANY, ITALY)

12:10-12:15

Discussion

10:30-12:15

Skalkotas Hall



PARALLEL SESSION 4B: Neuromuscular

Chairs: **Basil T. Darras** (USA), **Virginia Theodorou** (GREECE)

10:30-10:55

Neuromuscular: outcomes in gene therapy and Ethics

Francesco Muntoni (UNITED KINGDOM)

10:55-12:10

Oral communications OC066-OC070

OC066 | *Onasemnogene Aboaparvovec Gene-Replacement Therapy in presymptomatic Spinal Muscular Atrophy (SMA)*

Meredith Schultz, Kathryn J. Swoboda, Michelle Farrar, Hugh McMillan, Julie Parsons, Elaine Kernbauer, Marcia Farrow, Francis G. Ogrinc, Douglas E. Feltner, Bryan E. McGill, Sidney A. Spector, James L'Italien, Douglas M. Sproule, **Kevin A. Strauss** (USA, AUSTRALIA, CANADA)

OC067 | *The value of AVXS-101 Gene Replacement Therapy in improving survival and motor function and decreasing ventilatory support and hospitalization contrasted to Nusinersen and natural history for Type I Spinal Muscular Atrophy*

Omar Dabbous, Douglas M. Sproule, Douglas E. Feltner, Francis G. Ogrinc, Melissa Menier, Marcus Droege, Benit Maru, Farid Khan, Ramesh Arjunji (USA)

OC068 | *Joint effect of the SMN2 and SERF1A genes on early onset Spinal Muscular Atrophy patients*

Milos Brkusanin, Ana Kosac, Vladimir Jovanović, Jovan Pesovic, Goran Brajuškovic, Vesna Brankovic, Slobodanka Todorovic, **Vedrana Milic Rasic**, Dusanka Savic Pavicevic (SERBIA)

OC069 | *Clinical and radiological characterization of FIG4 related Neuronopathy*

Georgia Wright, Hannah Grayton, John Livingston, Soo-Mi Park, Alasdair Parker, Ingrid Simonic, Adam Thomas, Gayatri Vadlamani, Pooja Harijan (UNITED KINGDOM)

OC070 | *Onasemnogene Aboeparvovec Gene-Replacement Therapy for Spinal Muscular Atrophy Type 1: global pivotal Phase 3 study programme (STRIVE-US, STRIVE-EU, STRIVE-AP)*

Eugenio Mercuri, Giovanni Baranello, John W. Day, Claudio Bruno, Stefania Corti, Claudia A. Chiriboga, Thomas O. Crawford, Basil T. Darras, Richard S. Finkel, Anne M. Connolly, Susan T. Iannaccone, Nancy L. Kuntz, Riccardo Masson, Loren D.M. Pena, Meredith Schultz, Perry B. Shieh, Edward C. Smith, Kayoko Saito, Mariacristina Scoto, Sidney A. Spector, Douglas E. Feltner, Haojun Ouyang, Arseniy Lavrov, Elaine Kernbauer, Susan Williamson, James L'Italien, Douglas M. Sproule, Jerry R. Mendell, Francesco Muntoni (ITALY, UNITED KINGDOM, USA, JAPAN)

12:10-12:15

Discussion

10:30-12:15

MC 2 Hall



PARALLEL SESSION 4C: Fetal and Neonatal Neurology

Chairs: **Dimosthenis Damianos** (GREECE), **Alasdair Parker** (UNITED KINGDOM)

10:30-10:55

Fetal and Neonatal Neurology

Tally Lerman-Sagie (ISRAEL)

10:55-12:10

Oral communications OC071-OC075

OC071 | *Correlation of ACC MRI scoring and neurodevelopmental outcomes in children with prenatally diagnosed Isolated Corpus Callosal Agenesis*

Sarah Glatter (AUSTRIA)

OC072 | *Diagnostic yield and clinical impact of implementation of prenatal Exome Sequencing in fetuses with neurological abnormalities on fetal ultrasound*

Cacha Peeters-Scholte, Maayke de Koning, Monique Haak, Phebe Adama van Scheltema, Tamara Koopmann, Esther Nibbeling, Emmelien Aten, Nicolette den Hollander, Emilia Bijlsma, Claudia Ruivenkamp, Mariëtte Hoffer, Gijs Santen (NETHERLANDS)

OC073 | *Lissencephaly: molecular, radiological and clinical aspects of a single centre cohort*

Sintia Kolbjør, Daniel Martin Munoz, Maria Dahlin, Britt-Marie Anderlid (SWEDEN)

OC074 | *Investigating and managing neonatal seizures in the UK: an explanatory sequential mixed methods approach*

Anthony Hart, Lucy Gossling, Haris Stavroulakis, James Alix (UNITED KINGDOM)

OC075 | *An observational study on the 2018 proposed ILAE Classification for Neonatal Seizures*

Maria Chalia, Lela Lortkipanidze, Stewart Boyd, Ronit Pressler (UNITED KINGDOM)

12:10-12:15

Discussion

10:30-12:15

MC 3 Hall



PARALLEL SESSION 4D: Cerebral Palsy and Developmental Neurology

Joint session with EACD

Chairs: **Günther Bernert** (AUSTRIA), **Sameer Zuberi** (UNITED KINGDOM)

10:30-10:55 Cerebral Palsy: does therapy make change?
Mina Hadders-Algra (NETHERLANDS)

10:55-12:10 **Oral communications OC076-OC080**

OC076 | *Advantages of integrated modern technology: PowerVR Programme in social deficit remediation for children with neurological disorders using multitouch-multituser tabletops and virtual reality platform*

Marianne Saard, Anneli Kolk, Lisanna Pertens, Kirsi Sepp, Christen Kööp (ESTONIA)

OC077 | *Variations in S100B levels in a population of ADHD children after a combined therapy including Methylphenidate, Melatonin and Omega-3 fatty acids*

Miriam Ouadih-Moran, **Ana Checa-Ros**, Luisa Fernández-López, Cristina Teruel-Gómez, Andrea Cano-Rodríguez, Antonio Molina-Carballo, Antonio Muñoz-Hoyos (SPAIN, UNITED KINGDOM)

OC078 | *Neurodevelopmental outcomes of patients with prenatally diagnosed Corpus Callosum Agenesis*

Pinar Arican, Pinar Gencpinar, Ozgur Oztekin, **Nihal Olgac Dundar** (TURKEY)

OC079 | *Early lexical development in toddlers with Autistic Spectrum Disorder (ASD) in comparison to toddlers with Typical Development (TD)*

Aviva Mimouni Bloch, Alona Oren, Sheila Goldberg, Esther Dromi (ISRAEL)

OC080 | *Changes in motor function following Hemispherotomy: the experiences of parents, children and young people*

Judith Kay, Kate Oulton, Iain Beith (UNITED KINGDOM)

12:10-12:15 **Discussion**

12:15-13:00



Lunch Break

12:15-13:00

Poster Area



MODERATED POSTER TRACK 3

SESSION 8 | Epilepsy: miscellaneous, Neurorehabilitation
P08-01 to P08-38

See page 104

Chairs: **Athanasios Covanis** (GREECE), **Jurgis Strautmanis** (LATVIA)

SESSION 9 | Movement Disorders
P09-01 to P09-33

See page 107

Chairs: **Ethymia Vargiami** (GREECE), **Michèl A.A.P. Willemsen** (NETHERLANDS)

SESSION 10 | Neurodevelopmental
P10-01 to P10-32

See page 109

Chairs: **Helen Skouteli** (GREECE), **Leena Haataja** (FINLAND)

SESSION 11 | Neuromuscular
P11-01 to P11-52

See page 112

Chairs: **Günther Bernert** (AUSTRIA), **Sophia Bakhtadze** (GEORGIA)

13:00-14:30

Skalkotas Hall



INDUSTRY SPONSORED SYMPOSIUM 16

See page 159

13:00-14:30

MC 2 Hall



INDUSTRY SPONSORED SYMPOSIUM 17

See page 161

13:00-14:30

MC 3 Hall



INDUSTRY SPONSORED SYMPOSIUM 18

See page 162

13:00-14:30

Banquet Hall



INDUSTRY SPONSORED SYMPOSIUM 19

See page 163

13:00-14:30

Mitropoulos Hall



INDUSTRY SPONSORED SYMPOSIUM 20

See page 164

14:30-16:00

Trianti Hall



PLENARY SESSION 6: NGS and beyond

Chairs: **Argirios Dinopoulos** (GREECE), **Jutta Gärtner** (GERMANY)

14:30-15:00 *Principles and practice of NGS*
Han Brunner (NETHERLANDS)

15:00-15:30 *Disease gene identification in disorders with complex genetic architecture*
Holger Prokisch (GERMANY)

15:30-16:00 *NGS – Does it really change our daily practice?*
Sameer Zuberi (UNITED KINGDOM)

16:00-16:30



Coffee Break

16:30-18:15

Trianti Hall



PARALLEL SESSION 5A: Stroke

Chairs: **Maja Steinlin** (SWITZERLAND), **Georgios Vartzelis** (GREECE)

16:30-16:55 *The unmet needs of the emergency chain in childhood's Stroke*
Maja Steinlin (SWITZERLAND)

16:55-18:10 **Oral communications OC081-OC085**

OC081 | *Radiographic patterns of injury and risk factors in children with Hemiplegic Cerebral Palsy*

Trish Domi, Mahmoud Slim, Nomazulu Dlamini, Pradeep Krishnan, Darcy Fehlings, Gabrielle Deveber, CP-NET Group (CANADA)

OC082 | *The role of Varicella Zoster Virus in Focal Cerebral Arteriopathy of childhood: results of the International "Vascular Effects of Infection in Pediatric Stroke" (VIPS) Study*

Heather Fullerton, Nancy Hills, Max Wintermark, Catherine Amlie-Lefond, Adam Kirton, Gabrielle DeVeber, Mitchell Elkind (USA, CANADA)

OC083 | *Longitudinal evaluation of neurologic impairment trajectories in paediatric Arterial Ischemic Stroke (AIS)*

Mahmoud Slim, Nisha Ravichandiran, Nomazulu Dlamini, Mahendranath Moharir, Daune MacGregor, Gabrielle deVeber (CANADA)

OC084 | *Retrospective study of vascular manifestations in NF1 patients: single centre experience in Northern Greece*

Maria Milioudi, Euthymia Vargiami, Maria Kyriazi, Pinelopi Dragoumi, Athanasia Anastasiou, Konstantinos O. Papazoglou, Dimitrios I. Zafeiriou (GREECE)

OC085 | *Childhood Arterial Ischaemic Stroke: results of a Germany-wide surveillance study 2015–2017*

Lucia Gerstl, Raphael Weinberger, Martin Olivieri, Michaela V. Bonfert, Ingo Borggraefe, Sebastian Schroeder, Moritz Tacke, Mirjam N. Landgraf, Katharina Vill, Karin Kurnik, Ruediger von Kries, Florian Heinen (GERMANY)

18:10–18:15

Discussion

16:30–18:15

Skalkotas Hall



PARALLEL SESSION 5B: Trauma and acute events

Chairs: **Alasdair Parker** (UNITED KINGDOM), **Konstantinos Voudris** (GREECE)

16:30–16:55

Traumatic Brain Injury – Non-accidental injury

Mathilde Chevignard (FRANCE)

16:55–18:10

Oral communications OC086–OC090

OC086 | *Why can't we achieve more recanalization treatments in the Child Stroke code? Most prevalent contraindications*

Pilar Tirado-Requero, Cristina Verdú-Sanchez, José Antonio Ruiz-Dominguez, Samuel Ignacio Pascual-Pascual, Pedro Oliva-Senovilla, Exuperio Díez-Tejedor, Blanca Fuentes Gimeno (SPAIN)

OC087 | *Long-term outcome in paediatric Post-Varicella Arterial Ischemic Stroke*

Marta Bertamino, Sara Signa, Giulia Amico, Roberta Caorsi, Giuseppe Losurdo, Marco Gattorno, Paolo Moretti, Giulia Prato, Maja Di Rocco, Anna Ronchetti, Isabella Ceccherini, Sara Uccella, Thea Giacomini, Domenico Tortora, Andrea Rossi, Mariasavina Severino (ITALY)

OC088 | *Low haematocrit is a risk factor for acute neurological complications of cardiac bypass surgery in children with Congenital Heart Disease*

Neeraj Bhangu, **Alice Lording**, Katharine Forrest, John Pappachan, Fenella Kirkham (UNITED KINGDOM)

OC089 | *Platelet glycoprotein polymorphisms in paediatric Cerebral Sinovenous Thrombosis*

Andrea Čeri, Desiree Coen Herak, Jasna Leniček Krleža, Marija Miloš, Renata Zrinski Topić, Nina Barišić, Vlasta Đuranović, Renata Zadro (CROATIA)

OC090 | *Intraarterial thrombectomy in paediatric Arterial Ischemic Stroke*

Nesibe Gevher Eroglu Ertugrul, Ahmet Ziya Birbilen, Ahmet Peker³, Ibrahim Oncel, Ceren Gunbey, Tefik Karagoz, Dilek Yalnizoglu, Anil Arat (TURKEY)

18:10–18:15

Discussion

16:30-18:15

MC 2 Hall



PARALLEL SESSION 5C: Neurocutaneous Syndromes and Inflammatory Diseases

Chairs: **Coriene Catsman-Berrevoets** (THE NETHERLANDS), **Haris Kotsalis** (GREECE)

16:30-16:55 *Introduction to Phakomatosis*

Martino Ruggieri (ITALY)

16:55-18:10 **Oral communications OC091-OC095**

OC091 | *Paediatric Optic Neuritis and anti MOG antibodies: a cohort of Italian patients, looking for prognostic factors*

Thea Giacomini, Thomas Foiadelli, Pietro Annovazzi, Margherita Nosadini, Matteo Gastaldi, Diego Franciotta, Claudio Panarese, Paolo Capris, Paola Camicione, Paola Lanteri, Ramona Cordani, Lino Nobili, Giovanni Morana, Maria Cellerino, Antonio Uccelli, Stefano Sartori, Salvatore Savasta, Maria Margherita Mancardi (ITALY)

OC092 | *Efficacy and safety of Fingolimod versus Interferon β -1a in paediatric-onset Multiple Sclerosis Patients - PARADIGMS: a randomised, double-blind study*

Tanuja Chitnis, Douglas Arnold, Brenda Banwell, Amit Bar-Or, Wolfgang Brück, Angelo Ghezzi, Gavin Giovannoni, Benjamin Greenberg, Lauren Krupp, Kevin Rostasy, Marc Tardieu, Emmanuelle Waubant, Jerry S. Wolinsky, Gregory L. Pearce, Annik Laflamme, Martin Merschhemke, **Jutta Gärtner** (USA, CANADA, GERMANY, ITALY, UNITED KINGDOM, FRANCE, SWITZERLAND)

OC093 | *Anti-NMDA-receptor-Encephalitis leads to altered sleep-EEG-markers of neuronal plasticity*

Silvano R. Gefferie, Hanne Critelli, Reto Huber, Gerhard Kurlemann, Salome Kurth, Angelina Maric, Margherita Nosadini, Barbara Plecko, Maya Ringli, Kevin Rostasy, Stefano Sartori, Bernhard Schmitt, Agnese Suppiej, Patrick Van Bogaert, Flavia M. Wehrle, **Bigna K. Bölsterli** (SWITZERLAND, GERMANY, ITALY, AUSTRIA, FRANCE)

OC094 | *Nationwide survey of childhood spinal cord infarction in Japan*

Katsunori Fujii, Kensuke Fujishiro, Sho Hagiwara, Daisuke Sawada, Tomoko Uchida, Tadashi Shiohama, Hideki Uchikawa, Naoki Shimojo (JAPAN)

OC095 | *Genetics, immunology, and outcomes of De Novo Status Epilepticus in early childhood: a national population-based prospective cohort study*

Joseph Symonds, Liam Dorris, Angela Vincent, Bethan Lang, Jaycee Pownall, Alice Jollands, Shelagh Joss, Martin Kirkpatrick, Stewart MacLeod, Ailsa McLellan, Daniela Pilz, Kirsty Stewart, Louise Diver, Sarah Gardiner, Jay Shetty, Selina Thomsen, Sameer Zuberi (UNITED KINGDOM)

18:10-18:15

Discussion

16:30-18:15

MC 3 Hall



PARALLEL SESSION 5D: Epilepsy III

Chairs: **Pinelopi Dragoumi** (GREECE), **Stéphane Auvin** (FRANCE)

16:30-16:55 *Epilepsy – Longterm outcome of childhood surgery*
Kees P.J. Braun (NETHERLANDS)

16:55-18:10 **Oral communications OC096-OC100**

OC096 | *Epilepsy surgery in the first year of life: outcome experience from a single centre in the UK*

Vasiliki Nakou, Eva Gutiérrez-Delicato, Felice D'Arco, Hanna Richardson, Rachel Thornton, Ronit Pressler, Martin Tisdall, Helen Cross, Christin Eltze (UNITED KINGDOM)

OC097 | *Clinical characteristics and post-surgery seizure outcomes in children with Hemimegalencephaly Spectrum*

Ellen Talmon l'Armée, Ailsa McLellan, Suresh Pujar, Zubair Tahir, Martin Tisdall, William Harkness, Renzo Guerrini, Helen Cross (UNITED KINGDOM, ITALY)

OC098 | *Intraoperative detection of stereotactically inserted intracerebral electrodes may increase precision of resective Epilepsy surgery*

Anezka Belohlavkova, Alena Jahodova, Martin Kudr, Barbora Benova, Matyas Ebel, Petr Liby, Jakub Taborsky, Robert Lesko, Michal Tichy, Pavel Krsek (CZECH REPUBLIC)

OC099 | *A randomised controlled trial of the ketogenic diet in the treatment of Epilepsy in children under the age of two years (KIWE)*

Laura Lyons, Natasha Schoeler, Maryam Balogun, Siobhan Titre-Johnson, Christin Eltze, Ruth Williams, Helen McCullagh, Nick Freemantle, Louise Marston, Simon Heales, Rachel Kneen, Jeen Tan, Tim Martland, Irwin Nazareth, Elizabeth Neal, Andrew Lux, Andrew Mallick, Alasdair Parker, Shakti Agrawal, Penny Fallon, Anita Devlin, Archana Desurkar, Helen Basu, Rajib Samanta, Helen Cross (UNITED KINGDOM)

OC100 | *A novel tool to predict phenotype from genotype in SCN1A-related Epilepsies*

Andreas Brunklaus, Ismael Ghanty, Eduardo Perez-Palma, Renzo Guerrini, Bobby Koeleman, Rima Nabbout, Ingrid Scheffer, Stephanie Schorge, Joseph Symonds, Dennis Lal, Sameer M. Zuberi (UNITED KINGDOM, GERMANY, ITALY, NETHERLANDS, FRANCE, AUSTRALIA, USA)

18:10-18:15 **Discussion**

08:30-09:00

Trianti Hall



EPNS GENERAL ASSEMBLY

09:00-10:45

Trianti Hall



EPNS ACADEMY: (Auto)Immune disorders in Child Neurology

Chairs: **Barbara Plecko** (AUSTRIA), **Banu Anlar** (TURKEY)

09:00-09:20 *Molecular mechanisms driving autoimmunity*

Kumaran Deiva (FRANCE)

09:20-09:40 *Encephalitis: infectious vs. autoimmune aetiologies*

Yael Hacohen (UNITED KINGDOM)

09:40-10:00 *Update on Autoimmune Disorders affecting the Child's Nervous System*

Kevin Rostásy (GERMANY)

10:00-10:20 *Laboratory testing – Which samples, when and what to test?*

Ming Lim (UNITED KINGDOM)

10:20-10:40 *Treatment approaches in Paediatric Neuroimmunology*

Margherita Nosadini (ITALY)

10:40-10:45 **Discussion**

10:45-11:00



Coffee Break

11:00-12:30

Trianti Hall



HIGHLIGHTS

12:30-13:00

Trianti Hall



CLOSING CEREMONY

