Authors

Belén Abarrategui

Belén Abarrategui has a medical degree in 2009 from the University of Alcalá de Henares and specialized in Neurology at Hospital Clinico San Carlos (Madrid, 2014), where she began her subspecialization in epilepsy. She has a PhD in Biomedical Sciences at Universidad Complutense (2017) on Epilepsy & Cognition, with short stints in Chicago (Rush University) and São Paulo (Hospital São Paulo). From 2019 to 2022, she worked as epilepsy fellow at Claudio Munari Center for Epilepsy Surgery, deepening the pre-surgical study for focal epilepsy surgery, focal cortical dysplasias, SEEG, multimodal functional mapping and interactions between epilepsy and language. Since 2022, she has been working as epileptologist at Hospital Puerta de Hierro (Madrid).

Jean-Michel Badier

Jean-Michel Badier is a research engineer. He obtained an engineering degree in biomedical engineering and a PhD from the University of Technology of Compiègne.

He has been involved in the design of several epileptology units. His research focuses on methods of recordings and analysis of epileptic networks. He has worked successively at the Sainte-Anne Hospital in Paris, at the Rennes University Hospital and at the Timone Hospital in Marseille.

He oversees the MEG platform in Marseille. He made possible the simultaneous recording of meg signal with SEEG recordings that today generate unique data set for the validation of MEG localization techniques.

Sara Baldassari

Sara Baldassari obtained a PhD in Biomedical Sciences and Oncology from the University of Turin in 2017 and she was then trained as postdoctoral fellow at the Paris Brain Institute (ICM).

She is now an Inserm tenured researcher in the laboratory of Dr Baulac at the ICM.

Her scientific research interests focus on the discovery of the genetic etiology of epilepsy with cortical malformations, and on the elucidation of the disease mechanisms through single-cell omics.

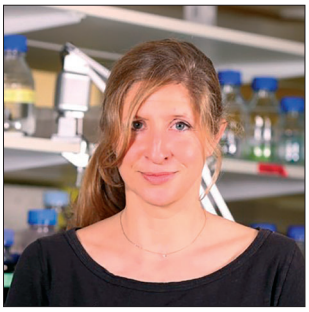
Carmen Barba

Carmen Barba is a child neurologist at the Neuroscience Department, Meyer Children's Hospital, Florence. She trained in neurophysiology and epilepsy surgery at the Neurological Hospital, Lyon, France with Jean Isnard and Francois Mauguiere and in invasive EEG recordings at the University Hospital, Grenoble, France with Philippe Kahane. She is Associate Professor in Child Neurology and Psychiatry, University of Florence and the Head of the Laboratory of Clinical Neurophysiology, Neuroscience

Department, Meyer Children's Hospital, Florence. She coordinated or participated in several projects on complex and rare epilepsies and epilepsy surgery. She is the author of more than 120 peer-reviewed articles and 10 book chapters (H index 26).

Fabrice Bartolomei

Fabrice Bartolomei is a neurologist specialized in epilepsy and professor at the University of Aix-Marseille (France) where he is head of the Epileptology and Cerebral Rhythmology Department (Timone Hospital, APHM). He is a member of the INSERM U1106 research unit (Institute of Systems Neuroscience, DYNAMAP team) and he is the coordinator of a university hospital research unit (RHU) «EPINOV» based on the study of individualized large-scale modeling in epilepsy surgery. He is particularly involved in the pre-surgical evaluation of patients with drug-resistant epilepsy and is a world leader in the analysis of Stereo-EEG recordings. He has published numerous studies in the field of epilepsy (>250), particularly developing the concept of «epileptogenic networks». He has long promoted the use of EEG/SEEG analysis and is co-inventor of the «Epileptogenicity Index», a method for assessing the epileptogenicity of brain regions.



Stéphanie Baulac

Stéphanie Baulac is a research director at Inserm and Group leader at the Paris Brain Institute (ICM). Stéphanie Baulac's research focuses on genetics and somatic mosaicism of cortical malformations associated with focal epilepsies using a translational approach from genetic studies on resected epileptic brain tissues, to *in vitro* functional testing using patient-derived brain organoids, and *in utero*-based mouse models, with the ultimate goal to provide insights into targeted therapeutic opportunities.

Ingmar Blümcke

Ingmar Blumcke is full professor and director of the department of Neuropathology at the University Hospital Erlangen in Germany. He graduated from medical school at Kiel University, Germany in 1991, and was a post-doctoral fellow in Marco Celio's lab at the University of Fribourg, Switzerland. Between 1994 and 2001, Dr Blumcke trained as resident in Neuropathology at the University Hospital in Bonn. Since then, his scientific interest addresses the clinical and molecular neuropathology of human epilepsies with particular emphasis on disease classification of Focal Cortical Dysplasia, hippocampal sclerosis and low-grade epilepsy-associated brain tumors. He published more than 350 scientific papers in peer-reviewed journals, with a current H-factor of 74 (Clarivate Web of Science). Dr Blumcke received the Alfred Hauptman Award of the German Epilepsy Society in 2011, the International League against Epilepsy (ILAE) ambassador award in 2015 and the Dorothy Russell medal of the British Neuropathology society in 2018. He currently chairs the Education council of the ILAE and is an executive board member of the ILAE.

Francesca Bonini

Francesca Bonini is a neurologist trained in neurophysiology and epileptology at Timone Hospital, lecturer at Aix-Marseille Université and member of the Research Unit INSERM U1106. Her research interests include stereoelectroencephalography, magnetoencephalography as well as semiological and surgical aspects of epilepsy.

Sarah Buts

Sarah Buts is a paediatrician and paediatric neurologist from Belgium and is currently a clinical fellow in clinical trials and paediatric neurology at the Great Ormond Street Hospital in London, working on clinical trials within paediatric epilepsies. She had her paediatric training in the University Hospital Ghent in Belgium (2014-2019) and her paediatric neurology training in the Evelina London Children's Hospital and the University Hospital Ghent, Belgium (2019-2021).

Francesco Cardinale

Francesco Cardinale had his medical degree in 1991 and his specialization in neurosurgery in 1996, obtained at the University of Bari, then obtained a fellowship for pediatric neurosurgery in Rome between 1995 and 1996 under the guidance of Prof. Anthony J Raimondi. He obtained a post-graduate master in biomedical statistics and epidemiology at the University of Pavia in 2005. Since 1998, he has been working as a neurosurgeon at the Claudio Munari Center for Epilepsy Surgery, Niguarda Hospital, Milan. His activity focuses on stereotactic methods for the implantation of intracerebral electrodes aimed at Stereo-EEG monitoring and on brain resective surgery. Dr Cardinale's research focuses mainly on advanced neuroimaging processing for lesion detection and surgical planning, and on robot-assisted neurosurgery. Dr Cardinale is also a PhD student in Neuroscience and works at the Dipartimento di Medicina e Chirurgia, Università degli Studi di Parma, and the Istituto di Neuroscienze, Consiglio Nazionale delle Ricerche, Parma, Italy.

Fernando Cendes

Fernando Cendes is a full professor of the department of Neurology, State University of Campinas (UNICAMP), Brazil, and Coordinator of the Epilepsy Surgery Program at UNICAMP. He is board-certified in Neurology, in Clinical Neurophysiology, and in Diagnostic Neuroradiology. Dr Cendes is a former EEG (1989) and Epilepsy Fellow (1991-1997) at the Montreal Neurological Institute and received his Ph.D. degree in Neuroscience at McGill University, Canada, in 1996. He supervised 77 graduate students and 24 post-doctoral fellows in addition to his teaching activities with medical students and residents. He is the past Chair (2009-2013) and Treasurer (2013-2017), of the Diagnostic Methods Commission of the ILAE. He is an associate editor of the journals *Epilepsia* and *Frontiers in Neurology-Epilepsy*, and a member of the Editorial Board of several journals including *Neurology* and *Epilepsy Research*. His research is focused on Epilepsy, Neuroimaging, and Clinical Neuroscience, with more than 450 full papers published in peer-review journals, with 12,585 citations and an H index of 60 according to the Web of Science (http://www.researcherid.com/rid/C-1301-2012), and an H-index of 80 according to Google Scholar.

Carlos Cepeda

Carlos Cepeda is a professor of Psychiatry & Biobehavioral Sciences at the Semel Institute for Neuroscience and Human Behavior, University of California Los Angeles (UCLA). His main interest is to understand the basic mechanisms of neurological disorders such as epilepsy and Huntington's disease. He received his training in electrophysiology in Mexico, France, and the USA. He is proficient in a wide array of electrophysiological techniques including EEG, multi- and single-unit recordings. Since 1989, he has concentrated his research efforts on the examination of cellular and synaptic alterations in the cerebral cortex of

children with pharmaco-resistant epilepsy. In particular, he used slices and whole-cell patch clamp recordings to unravel neuronal dysfunction in pediatric cortical dysplasia and tuberous sclerosis complex. His laboratory was the first to describe the membrane and synaptic properties of dysmorphic cytomegalic neurons and balloon cells. In parallel, he has been seeking new therapeutic avenues and tested a wide range of pharmacological compounds with potential antiepileptic properties. He has published over 200 peer-reviewed articles and 40 chapters. He has been funded by several NIH grants.

Valerio Conti

Valerio Conti is a geneticist and neurobiologist. He took his PhD at the University of Pisa characterizing ataxic mice models at genetic and morphofunctional level. As a visitor scientist, he trained in neurobiology at the Institut de Neurobiologie de la Méditerranée (INMED), Marseille, France with Carlos Cardoso and Alfonso Represa. He is the head of the Laboratory of Neurobiology at the Neuroscience Department, Meyer Children's Hospital, Florence.

His main research topics are related to functional characterization of pathogenic variants affecting known and novel genes associated with malformations of cortical development and developmental and epileptic encephalopathies in cellular and animal models. He co-authored more than 40 peer-reviewed articles and 4 book chapters (H index 19).

J. Helen Cross

Professor Helen Cross is The Prince of Wales's Chair of Childhood Epilepsy and Head of the Developmental Neuroscience Research and Teaching Department at UCL-Great Ormond Street Institute of Child Health, Honorary Consultant in Paediatric Neurology Great Ormond Street Hospital for Children NHS Foundation Trust, London and Young Epilepsy, Lingfield, UK. Her research has been targeted at improving outcomes in early onset epilepsy, specifically in assessing the role of surgery and ketogenic diet. She has held key leadership roles both nationally and internationally. She is currently President of the International League Against Epilepsy 2021-2025, Clinical Advisor to the National Children's Epilepsy Surgery Service, and was Clinical Advisor to the update of the NICE guidelines for Childhood Epilepsy 2018-2021. She developed, as Coordinator, the European Reference Network for Rare and Complex Epilepsies (EpiCARE) launched in 2017. She has published >400 peer reviewed publications, reviews and book chapters (H index 77). She received an ILAE Ambassador for Epilepsy award in 2007, and is a recipient of the American Academy of Neurology Sydney Carter Award, The International Child Neurology Association Frank Ford Award and the American Epilepsy Clinical Research Award. She received an OBE for contributions to childhood epilepsy in 2015.

Bertrand C. Devaux

Bertrand Devaux is a neurosurgeon at Lariboisière Hospital in Paris, and professor of Neurosurgery at Université Paris-Cité. He trained in the department of neurosurgery at Sainte-Anne hospital in Paris, especially in stereotactic and functional neurosurgery, from 1986 and obtained his qualification in neurosurgery in 1989. He specialized in epilepsy surgery, developed the image-guided and robotic assistance for SEEG, and alternative techniques to resective procedures, such as multiple radiofrequency thermocoagulations. He was the head the department of neurosurgery at Sainte-Anne hospital from 2013 through 2021. At the Université Paris-Cité, he has been responsible for international students exchange (Erasmus program), and regional coordinator of neurosurgery residency program (2006-2015). His main research areas are epilepsy surgery in functional brain areas and the development

of intraoperative optical imaging (full-field and dynamic OCT, multiphoton fluorescence) in cooperation with research laboratories. He received in 2014 the Chevalier de la Légion d'Honneur medal from the Ministery of Superior Education and research.

Georg Dorfmüller

Georg Dorfmüller is a pediatric neurosurgeon, specialized in epilepsy surgery. He is head of the department of pediatric neurosurgery at the Hôpital Fondation Rothschild in Paris, France.

Particular fields of expertise of this pediatric epilepsy surgery center are: SEEG explorations in young children, hemispherotomy procedures, and the surgical management of hypothalamic hamartomas.

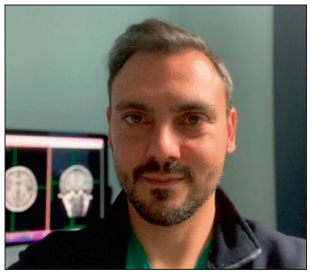
François Dubeau

François Dubeau is an associate professor of clinical neurology and member of the department of neurology and neurosurgery at McGill University. He obtained his degree in Medicine from the University of Montréal (1978), completed his neurology training also at UdeM (1985), and underwent a 3-year (1985-1988) post-doctoral fellowship in epilepsy, electroencephalography and neuropharmacology at the MNI. He is Fellow of the Royal College of Physicians of Canada since 1985. He joined the Montreal Neurological Hospital and Institute (MNH/MNI) and McGill University in 1990 and has worked there since. His clinical and research interests are centered on the analysis of the EEG and invasive EEG methods, mechanisms of epileptogenesis and seizure spread in humans, and functional imaging in the diagnosis and study of epilepsy. He worked in close collaboration with Jean Gotman, Birgit Frauscher, and Philippe Kahane from Grenoble-Alpes University, using the advantage of intracerebral EEG method to better define the epileptogenic zone (EZ) and the role of neurostimulation in the understanding of EZ. They have also created, together, an atlas of normal intracerebral physiology. From 2000 to 2016, he was Director of the EEG laboratory and Epilepsy Monitoring Unit at the MNH. He is author or co-author in over 300 peer-reviewed papers and book chapters.

John S. Duncan

John Duncan is a consultant neurologist specializing in epilepsy, practicing at the National Hospital for Neurology and Neurosurgery, Queen Square, London and at Chalfont Centre for Epilepsy, His personal research focus is neuroimaging applied to epilepsy surgery.

He was appointed professor of Neurology at the UCL Institute of Neurology in 1998. From 2012 to 2018, he was clinical director of the National Hospital for Neurology and Neurosurgery. He is NIHR Senior Investigator and Governor of UCL Hospitals. In 2004, he received the annual Clinical Research recognition award of the American Epilepsy Society. He is past-President and past treasurer of the UK chapter of ILAE. In 2005, he was elected Ambassador for Epilepsy and to be a Fellow of the Academy of Medical Sciences.



Piergiorgio d'Orio

Piergorgio d'Orio had his medical degree in 2011 from the University of Chieti, and his specialization in neurosurgery in 2017 obtained at the University of Milan. Since then, he has been working as a neurosurgeon at the Claudio Munari Center for Epilepsy Surgery, Niguarda Hospital, Milan, first as part of a fellowship at the Parma's National Research Council Institute of Neuroscience (2018-2021), then on staff at the hospital.

Dr d'Orio has particular interest in SEEG, biostatistics and neuro-imaging. He is also a PhD student in Neuroscience, working at the Dipartimento di Medicina e Chirurgia, Università degli Studi di Parma, and the Istituto di Neuroscienze, Consiglio Nazionale delle Ricerche, Parma, Italy.

Susanne Fauser

Susanne Fauser is a neurologist and epileptologist. She had her epileptological training at the University Hospital Freiburg, Germany, focusing on the pre-operative evaluation of patients with drug resistant partial epilepsy. Moreover, she worked in the outpatient department for epilepsy patients (focusing on focal and generalized epilepsies) (2002 to 2012). Later on, she was senior physician at the department of Neurology, University Hospital Ulm, Germany, where she headed the Video-EEG-Monitoring Unit and the epilepsy ward between 2012-2015. From 2015 to 2021 she was senior physician at the Epilepsy Center Bethel, Bielefeld, Germany. In Bethel she headed the Video-EEG-Monitoring Unit for adult patients from 2018 to 2021 (mainly non-invasive and invasive presurgical work-ups, but also differential diagnosis). Since 2021 she is senior physician at the Clinic for Neurology, Ludwigsburg, Germany.

Her main research topics are related to Focal Cortical Dysplasias with special interest to postoperative outcome and predictive factors, histology and MRI findings. Moreover, she is interested in status epilepticus and in autoimmune encephalitis (i.e. Rasmussen encephalitis).

Martine Gavaret

Martine Gavaret is a neurologist, an epileptologist and a neurophysiologist in GHU Paris Psychiatrie et Neurosciences, Sainte Anne Hospital & Université Paris Cité & INSERM UMR 1266, IPNP, Paris. Her areas of expertise are epileptology, high resolution EEG and MEG source localization.

Jorge González Martínez

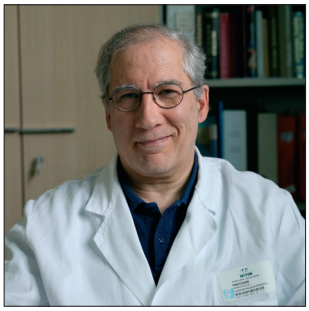
Jorge González Martínez is a neurosurgeon subspecialized in epilepsy and functional neurosurgery. He is the director of the Epilepsy and Movement Disorders Surgery at University of Pittsburgh Medical Center. Dr González Martínez is a medical pioneer in less invasive methods for treating medically refractory seizures such as stereo-electroencephalography, SEEG guided laser ablative procedures, neuromodulatory interventions and robotic guided surgeries, His particular field of interest and academic drive is related to neuro-electrophysiology, intracranial signal processing and behavioral neuroscience studies. Combined, the clinical and basic science efforts translate and pave the future for safer and more efficient methods for treating patients with severe seizures, promoting the improvement of symptoms, in combination with better functional and quality of life outcomes.

Jean Gotman

Jean Gotman is a professor at the Montreal Neurological Institute, McGill University. He received an engineering degree from the University of Paris and a PhD in Neuroscience from McGill. He pioneered the automatic detection of spikes and seizures during long-term EEG monitoring and made his methods widely available through Stellate, a company he created in 1986, which developed and sold all over the world equipment and software for EEG, epilepsy monitoring and polysomnography. He published over 340

peer-reviewed papers and 40 chapters. His research interests include analysis of the EEG, mechanisms of epileptogenesis, seizure generation and spread in humans, High Frequency Oscillations and functional imaging in the diagnosis and study of epilepsy.

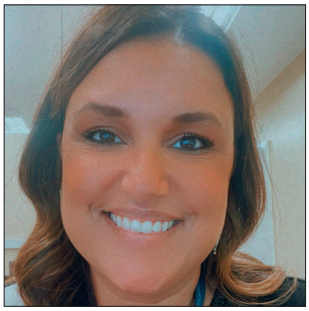
He received the Research Recognition Award from the American Epilepsy Society, the Gloor and the Jasper Awards of the American Clinical Neurophysiology Society, the Penfield Award of the Canadian League against Epilepsy, was named Ambassador for Epilepsy by the International League against Epilepsy, and gave the Lennox-Lombroso lecture at the American Epilepsy Society.



Renzo Guerrini

Renzo Guerrini is Director of the Neuroscience Department at the Children's Hospital A. Meyer, Florence, Italy. His previous academic positions include professorships at University of Pisa, King's College London and University College London. His research focuses on the neurophysiology, neurogenetics and the treatment of pediatric epilepsies. He has coordinated the Commission of Pediatrics of the ILAE and has been the principal investigator of DESIRE (Development and Epilepsy - Strategies for Innovative Research to improve diagnosis, prevention and treatment in children with difficult to treat Epilepsy), a major EU Research project.

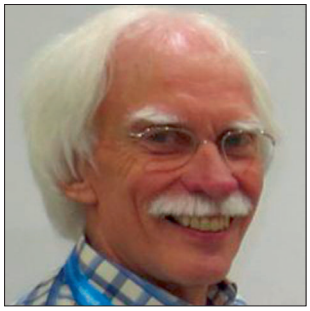
He received the Ambassador for Epilepsy ILAE Award, 2003, the American Epilepsy Society's Clinical Research Recognition Award, 2012 and the Elisa Frauenfelder Prize on Research and Innovation, 2019. He has co-authored over 500 papers in peer-reviewed journals and 12 books (H index 108).



Francine Hehn

Francine Hehn de Oliveira is neuropathologist in Porto Alegre, Brazil, trained at University Hospital of Zurich, Switzerland. She is currently Professor of Pathology at the Pathology department of the Universidade Federal do Rio Grande do Sul (UFGRS) and Chief of Pathology department at Hospital de Clínicas de Porto Alegre. She is medical coordinator of Pathology, Genetics and Molecular Biology Lab of Hospital Moinhos de Vento, Porto Alegre, Brazil.

She is involved in diagnosing brain tumors, neurodegenerative autopsy cases and is responsible for around 500 diagnoses of epilepsy specimens since 2010. She has great interest in morphology, immunohistochemistry and genetics of epilepsy specimens. Author and co-author of more than 30 articles in the areas of neuroscience and neuropathology, she also authored a book on Pathology of Brain Tumors and three chapters of books in the field of pathology.



Hans Holthausen

Hans Holthausen is a pediatrician and neuropediatrician with more than 30 years of experience in pediatric epileptology. He got his education in Pediatrics and Neuropediatrics at the Ludwigs-Maximilian-University in Munich. He was appointed by the Epilepsy Center Bethel/Bielefeld (head at that time Peter Wolf) to become head of a pediatric section of a presurgical unit for Children and adults – after an EEG-fellowship and training in presurgical evaluation at the epilepsy center of the Cleveland Clinic, headed by Hans Lüders. After 10 years working in this position, he became head of the Center for Pediatric Neurology and Pediatric Neuro-Rehabilitation in Vogtareuth in the south of Germany. There, together with his coworkers and with generous support by the Bavarian government, managed to establish

successfully another pediatric epilepsy center, which includes presurgical evaluation and epilepsy surgery. Hans Holthausen was the first chair of the Task Force of Pediatric Epilepsy Surgery of the ILAE. He is co-editor of 2 textbooks on Pediatric Epilepsy Surgery and author of numerous peer-reviewed publications and book chapters in textbooks, edited by renewed epileptologists. After his retirement from the position as head of the clinic, he is still affiliated with the center in Vogtareuth. He has kept until now his keen interest in pediatric epileptology, particularly in surgical and mental outcome of children with epilepsies in association with structural lesions.

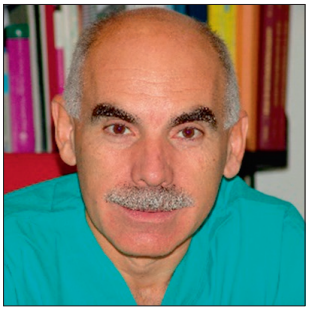
Hans Holthausen is honorary member of the German chapter of the ILAE and honorary member of the Neuropediatric Society of the German speaking countries. He and is spending most of his time now on the analysis of the large body of data from the epilepsy center in Vogtareuth and in teaching and lecturing in many parts of world, in particular in Russia.

Pavel Kršek

Pavel Kršek is a paediatric neurologist and epileptologist, a professor of Neurology at Charles University in Prague, head of department of Paediatric Neurology, 2nd Faculty of Medicine and Motol University Hospital in Prague, and the current chair of Czech Society of Paediatric Neurology. His fields of clinical and research interest include drug-resistant epilepsy in children, epilepsy surgery (with special focus on focal cortical dysplasia and tuberous sclerosis), genetic causes of epileptic encephalopathies and malformations of cortical development, intraoperative monitoring, and quality of life of children with epilepsy. He has authored or co-authored over 110 papers in peer-reviewed scientific journals and participated in more than 30 grant projects including 3 international projects.

Martin Kudr

Martin Kudr is a paediatric neurologist focusing on epileptology and epilepsy surgery. Since graduating from Charles University in Prague, he has been working at the department of Pediatric Neurology, Motol University Hospital in Prague. The topic of his dissertation was SPECT in epilepsy surgery. He completed internships focused on epilepsy surgery at Miami Children's Hospital and University Hospital in Grenoble.



Giorgio Lo Russo

Giorgio Le Russo had his medical degree at the University of Turin in 1977 and specialized in Neurology and Neurosurgery (1987, 1982) at the University of Turin. He was a university researcher, at the Institute of Neurosurgery of Turin until 1993. He trained in Paris (Service de Neurochirurgie, Hôpital Sainte Anne, 1989-1990, with Prof. Talairach and Prof. Bancaud) and Grenoble (Service de Neurochirurgie, Centre Universitaire Grenoble 1991-1994, with Prof. Benabid) under the guidance of his Mentor Prof. Claudio Munari. He contributed to start the epilepsy surgery program in Grenoble and to found the Milan Center when Prof. Munari returned to Italy. He is currently in charge of the Claudio Munari Center for Epilepsy Surgery at Niguarda Hospital where he has been working since 1993.

Daphne Marina

Daphne Marina graduated Magna Cum Laude with a Bachelor of Science degree in Physiological Science from the University of California, Los Angeles (UCLA). She is an aspiring M.D. candidate and has attended surgery and pediatric grand rounds at the UCLA Ronald Reagan Hospital. Currently, she is conducting quantitative analysis of non-neuronal cells present in Focal Cortical Dysplasia and tuberous sclerosis complex tissue samples to gain insights into their role in pediatric epilepsy. She was born and raised in Indonesia.

Gary W. Mathern

Gary Mathern is a professor in the departments of Neurosurgery and Psychiatry at the University of California, Los Angeles (UCLA) and the Davies/Crandall endowed chair for epilepsy research at UCLA. He received his medical degree from Case Western Reserve University and did a neurosurgery residency followed by an Epilepsy fellowship at UCLA. He became the neurosurgical director of the Pediatric Epilepsy Surgery Program in 1997, where he pioneered surgical treatment of children with refractory epilepsy. His research has involved histopathological and electrophysiological studies of resected human brain tissue, animal models of surgically treated epilepsy syndromes, and genetic studies of refractory epilepsy along with studies of neuroimaging in epilepsy. He has published more than 250 peer-reviewed papers and book chapters. He was awarded the Founder's award by the American Epilepsy Society and the Ambassadors award from the International League Against Epilepsy, and was Editor-in-Chief of Epilepsia.

Charles Mellerio

Charles Mellerio is a neuroradiologist focused on two main areas: epilepsy and functional imaging. After completing his medical training and radiology residency, he specialized in cerebral imaging. His activities in Epilepsy imaging and clinical functional MRI began in 2008 at GHU Sainte-Anne (Paris) where he has post-processed over 2000 fMRI cases since then. He earned his PhD in neurosciences at Université de Paris and his thesis topic was "Optimization of advanced MRI tools in the detection and characterization of epileptogenic developmental lesions" with a special focus on focal cortical dysplasia imaging. He also developed these practices since 2016 at Centre d'Imagerie du Nord (CCN – Saint-Denis – France). He published around 50 peer-reviewed papers, several book chapters, and presented numerous scientific and educational presentations related to epilepsy and functional imaging.

Eliseu Paglioli

Eliseu Paglioli is a neurosurgeon in Porto Alegre, Brazil, trained at the Instituto de Neurocirurgia, Hospital São José, Santa Casa de Misericórdia de Porto Alegre. He is currently Professor of Neurosurgery at the Department of Surgery of the Pontificia Universidade Católica do Rio Grande do Sul (PUCRS) and Surgical Director of the Epilepsy Surgery Program, at the Hospital São Lucas da PUCRS. He was head of the Neurosurgery Service of Hospital São Lucas from 2003 until 2021.

He has been strongly involved with surgical treatment of patients with drug-resistant focal and generalized epilepsies, having operated more than 2,500 patients with epilepsy over the last 30 years. His main focuses in surgical practice and research are the

temporal lobe epilepsies and extratemporal focal cortical dysplasia operated under acute electrocorticography. Moreover, he has devised the technique and rationale for selective posterior callosotomy from epileptic drop attacks, which has also been an area of significant interest lately. He has written or co-written more than 75 peer-reviewed articles or book chapters.

Martina Revay

Martina Revay had her medical degree in 2012 and her specialization in neurosurgery in 2020, obtained at the University of Milan. She obtained a fellowship for neurosurgery in Tolosa in 2017 under the guidance of Prof. Sol. She has been working as a neurosurgeon at the Claudio Munari center since 2018, first as part of a fellowship at the L. Sacco Biomedical and Clinical department of the Milan University (2018-2021), then on staff at the hospital. Dr Revay has a particular interest in SEEG, neurophysiological intraoperative mapping and monitoring, and neuro-imaging.

Ivana Sartori

After a medical degree in 1991, Ivana Sartori has her specializations in Neurophysiology (1995) and Neurology (2001) from the University of Pavia, and AISM examination for sleep medicine in 2000. She works as an epileptologist at the Claudio Munari Center for Epilepsy Surgery since 2001. Dr Sartori has a particular interest in SEEG and neurophysiological intraoperative mapping and monitoring. In addition, her research interests are concentrated in particular in neuroscience, thanks to a long collaboration with the Universities of Parma and Milan.

Masataka Tanaka

Masataka Tanaka is a chief doctor at the department of Neurosurgery, Yao Municipal Hospital, Japan. He received a medical degree from Akita University in 2008. He has been a board-certified neurosurgeon of Japan Neurosurgical Society since 2014. He specializes in functional and stereotactic neurosurgery. From 2020–2022, he joined Dr Jean Gotman's lab at the Montreal Neurological Institute, McGill University as a post-doctoral research fellow. As a neurosurgeon and researcher, his research interests include voxel-based morphometry, analysis of magnetoencephalography for Parkinson's disease, and EEG-fMRI for patients with epilepsy.

Laura Tassi

Laura Tassi graduated at the University of Milan, in 1988, becoming Neurologist in 1992. At present, she is a neurologist and neurophysiologist, as Hospital Practioner at the Claudio Munari Epilepsy Surgery Centre in Milano, in Italy. She is the responsible of the Long-Term monitoring Laboratory of the clinical epileptology program. She is acknowledged as an expert on pre-surgical assessment of drug-resistant epilepsies, including SEEG investigations, with about 30 years of experience in the field. Her area of research includes Malformation of cortical development, early indication for surgery, Thermocoagulation with intracerebral electrodes, characterization of ictal discharges during Stereo-EEG. She is the President of the Italian League Against Epilepsy.

Harry V. Vinters

Harry V. Vinters has published more than 600 articles, reviews and book chapters on various aspects of neuropathology, ranging from its clinical aspects to issues of molecular pathogenesis, tissue culture and animal models. He has also co-authored or edited six books, including all three editions of the widely used *Neuropathology – a Reference Text of CNS Pathology* (Mosby, 3d edition, 2013). In addition to his clinical and teaching activities, he has had active research programs in several areas, including vascular dementias and the vascular component of Alzheimer disease (especially mediated through cerebral amyloid/congophilic angiopathy), neuropathologic substrates of intractable pediatric epilepsy, neurologic complications of AIDS, stroke and cerebrovascular disease—this work incorporates translational studies and investigation of animal models. In the early days of the AIDS epidemic, he had an active program in, and was among the first to characterize, the neurologic complications of HIV infection. In 1987, his laboratory contributed to discovery of one of the first 'neurotropic' strains of HIV. He was the recipient (in 2002) of the Research Award of the Alzheimer's Association of Los Angeles, Riverside and San Bernardino Counties. He served as Editor-in-Chief of 'Brain Pathology', from 2000-2006 and currently is lead investigator on a CIRM grant to study the neurologic complications of COVID 19. Dr Vinters' laboratory has hosted numerous international scholars and trainees—all of whom have gone on to distinguished careers in their home countries. He has served and currently serves on several editorial boards of major scientific journals, including *Neuropathology, Neuropathology & Applied Neurobiology,* and *Human Pathology*. In 2017, he received the Alfred Meyer Medal of the British Neuropathological Society and the Award for Meritorious Contributions to Neuropathology from the American Association of Neuropathologists.

Flavia Maria Zauli

After a bachelor's degree in 2015 in Neurophysiopathology Techniques from Tor Vergata University of Rome, Flavia Maria Zauli had her Master's degree in Cognitive Science in 2018 from La Statale University of Milan. She is currently a PhD student in Mind, Brain and Reasoning at the L. Sacco Biomedical and Clinical department of the Milan University, practicing her clinical activity at the Claudio Munari Center. Dr Zauli has particular interest in high-density EEG with electrical source imaging and neurophysiological intraoperative mapping and monitoring.

She currently works at the Azienda Socio-Sanitaria Territoriale Grande Ospedale Metropolitano Niguarda, Claudio Munari Center for Epilepsy Surgery, as well as the Dipartimento di Scienze Biomediche e Cliniche L. Sacco and the Dipartimento di Filosofia P. Martinetti, Università degli Studi di Milano, in Milan, Italy.