

Basic Science Investigators' Workshops

Year	Moderator(s)	Title	Speakers
2022	Christopher Dulla, PhD; and Judy Liu, MD, PhD	Investigators Workshop Metabolic Mechanisms of Epilepsy and Related Neurodevelopmental Disorders	Sadi Quinones, BS; Felix Chan, PhD; and Ramon Sun, PhD
2022	Lori L. Isom, PhD, FAES	Investigators Workshop What Can We Learn from Large Animal Models of Epilepsy?	Roberto Ramos-Mondragon, PhD; Charles A. Szabo, MD; Ned Patterson, DVM, PhD, DACVIM
2022	Kyle Lillis, PhD; and Catherine Schevon, MD	Investigators Workshop Cellular Contributions to Epileptiform EEG	Lauren Lau, PhD; Sarah Muldoon, PhD; Edward Merricks, PhD
2022	Avtar Roopra, PhD; and Amy Brooks-Kayal, MD, FAAN, FANA, FAES	Investigators Workshop Omics and Open Discovery: Challenges and Opportunities for Epilepsy Research	Shelly J. Russek, PhD; Anubhav Sinha, PhD candidate; and Olivia Hoffman, PhD candidate
2022	Jonathan K. Kleen, MD, PhD; and Jeremy M. Barry, PhD	Investigators Workshop Extracting Neural Signals from Noise in Electrophysiological Data: Tools and Traps	Jonathan K. Kleen, MD, PhD; Andrea Navas-Olive, PhD candidate; Thomas Donoghue, PhD; and Dora Hermes, PhD

2022	Priya Balasubramanian, PhD	Investigators Workshop The Neurocircuitry of Sudden Unexpected Death in Epilepsy: Insights from CURE Epilepsy-Funded Research	Nuria Lacuey Lecumberri, MD, PhD; William Nobis, MD, PhD; Kristina A. Simeone, PhD; and Ian Wenker, PhD
2022	Kevin Staley, MD	Investigators Workshop Inhibitory Plasticity, Ictogenesis, and Epileptogenesis	Stephen Moss, PhD; Janet Soul, MD; and Kiernan Normoyle, MD, PhD
2022	Nigel Jones, PhD; and Amy Brewster, PhD	Investigators Workshop Microglia in Seizures, Epilepsy, and Comorbidity: Recent Advances Illuminating Pathogenic Mechanisms	Ukpong Eyo, PhD; and Katerina Akassoglou, PhD
2022	Richard Rosch, MD, PhD, MRCPCH; and Annapurna Poduri, MD, MPH	Investigators Workshop Riding the Wave - Current and Future Contributions of Zebrafish Models to Epilepsy Research	Eric Samarut, PhD, MBA; Emre Yaksi, PhD; and Aylin Reid, MD, PhD, FRCP
2022	Julie Ziobro, MD, PhD; and Louis Dang, MD, PhD	Investigators Workshop Advanced Gene and Cell Based Therapies to Target General Mechanisms of Epilepsy	Sophie Hill, BS; Gabriele Lignani, PhD; and Alexa Tierno, PhD candidate
2022	Jamie L. Maguire, PhD; and Viji Santhakumar, PhD	Investigators Workshop Diverse Roles of Interneuron Subtypes in Acquired Epilepsies	Viji Santhakumar, PhD; Megan Wyeth, PhD; and Robert F. Hunt, PhD

2021	José Ángel Aibar, Franck Kalume, PhD	The Potential of CRISPR for Treating Epilepsies	Gaia Colasante, PhD; Gabriele Lignani, PhD; Aguan Wei, PhD
2021	Sarah Muldoon, PhD; Ethan Goldberg, PhD	Quantitative Analysis of Epileptic Networks at Cellular Resolution	Darian Hassan Hadjiabadi, MSE; Claudia Clopath, PhD; Zhenrui Liao, BS
2021	Jaideep Kapur, MD, PhD, FAES; Jeremy Barry, PhD	Memory Mechanisms in the Epileptic Brain	Jaideep Kapur, MD, PhD, FAES; Tristan Shuman, PhD; Laura Ewell, PhD
2021	Krishnan, MD, PhD; Kimford J. Meador, MD, FRCPE, FAHA	Anatomical and Neurobehavioral Consequences of Fetal Antiseizure Medication Exposure	Robert Cabrera, PhD; Yi Li, MD, PhD; Vaishnav Krishnan, MD, PhD
2021	Catherine Christian-Hinman, PhD; Jamie Maguire, PhD	Emerging Roles of Hypothalamus in Epilepsy and Comorbidities	Catherine Christian-Hinman, PhD; Trina Basu, PhD, Michael Wong, MD, PhD
2021	Maxime Baud, MD, PhD; Vikram Rao, MD, PhD	The Chronobiology of Epilepsy	Maxime Baud, MD, PhD; Birgit Frauscher, MD, PhD; Christophe Bernard, PhD

2021	Cameron S. Metcalf, PhD; Jennifer Wong, PhD	Therapeutic Benefits of Targeting Neuropeptides in Epilepsy	Cameron S. Metcalf, PhD; Jennifer Wong, PhD; Esbjörn Melin, PhD
2021	Peter B. Crino, MD, PhD	Somatic Genetics of Neocortical Epilepsy: SLC35A2	Erin Heinzen-Cox, PharmD, PhD; Melodie R. Winawer, MD, MS, Annapurna Poduri, MD, MPH, FAES; Philip Iffland, PhD
2021	Rachel June Smith, PhD; Daniel W. Shrey, MD	Clinical Applications of Functional and Effective Connectivity in Epilepsy	Rachel June Smith, PhD; Beth A. Lopour, PhD; Srikantan Nagarajan, PhD
2021	Lauren Harte-Hargrove, PhD	Novel Techniques and Models to Identify Epileptogenesis in Post-traumatic Epilepsy	Armina Omole, MD, PhD; Federico Moro, PhD; Oleksii Shandra, MD, PhD; Kyle Lillis, PhD
2020	Jack M. Parent, MD	Using Human Brain Organoids to Study Genetic Epilepsies	Helen Bateup, PhD; Ranmal A. Samarasinghe, MD, PhD; and Andrew M. Tidball, PhD
2020	Tristan T. Sands, MD, PhD; and Erin Heinzen, PharmD, PhD	New Vistas in the Genetic Landscape of Epilepsy: Explaining the Genetically Unexplained	Annapurna Poduri, MD, MPH; Melanie Bahlo, BSc, PhD; and Dennis Lal, PhD

2020	Gordon F. Buchanan, MD, PhD; and Franck Kalume, PhD	Sleep and Circadian Rhythms in SUDEP: Disentangling Night Time Contributors to Seizure-Associated Death	Judy S. Liu, MD, PhD; Benton S. Purnell, BA; and Rufi Dalvi, PhD
2020	Ana Mingorance, PhD; and Gavin Rumbaugh, PhD	Beyond Seizures: Comorbidities and Genetic Rescue in Developmental and Epileptic Encephalopathies	Ana Ricobaraza, PhD; Zhaolan (Joe) Zhou, PhD; and Gavin Rumbaugh, PhD
2020	Esther Krook-Magnuson, PhD; and Patrick A. Forcelli, PhD	Beyond the Hippocampus: Remote Networks Important for Epilepsy Outcomes and Seizure Control	Martha Streng, PhD; Patrick A. Forcelli, PhD; and Jamie L. Maguire, PhD
2020	Manisha N. Patel, PhD	Metabolism-Targeted Treatments for Epilepsy Revealed Through Studies of Ketogenic Diet Mechanisms	Ashwini Sri Hari, MS; Jong M. Rho, MD; and Dominic D'Agostino, PhD
2020	Judy S. Liu, MD, PhD	How Can Study of the 'Seizure Focus' from Therapeutic Resections can Lead to Novel Insights in Epilepsy	Felix Chan, PhD; Mark Cunningham, PhD; and Costas Anastassiou, PhD
2020	Jeffrey L. Noebels, MD, PhD	Mechanisms of Epileptogenesis in the Peritumoral Microenvironment	Tara Barron, PhD; Qiqun Zeng, PhD; and Jochen F. Meyer, PhD

2020	Amy Brooks-Kayal, MD; and Scott C. Baraban, PhD	Master Regulators in Epileptogenesis: REST and all the Rest	Tallie Z. Baram, MD, PhD; Avtar S. Ropra, PhD; and Fabio Benfenati, MD
2020	Gary P. Brennan, PhD	Mechanisms Governing RNA Fate in Epilepsy; From Generation to Translation.	Gary P. Brennan, PhD; Farah D. Lubin, PhD; and Giordano Lippi, PhD
2020	Alfred L. George, Jr., MD; and Dianalee McKnight, PhD	VANQUISHING THE VUS: Strategies for Decrypting Variants of Unknown Significance in Genetic Epilepsies	Stephen F. Traynelis, PhD; Carlos G. Vanoye, PhD; and Henrike Heyne, PhD
2020	Jenny Hsieh, PhD; and Helen Scharfman, PhD	New Therapeutic Implications for Adult Hippocampal Neurogenesis in Rodents and Humans	Jeannie Chin, PhD; Viji Santhakumar, PhD; and Mercedes F. Paredes, MD, PhD
2019	Melissa Barker-Haliski, PhD; Angela Birnbaum, PhD; Helen Scharfman, PhD	Seizures in Seniors: How Do We Identify New and Innovative Therapies for this Growing Patient Demographic?	Erik Roberson, PhD; Sílvia M. Illamola, PharmD, PhD; and David Alcantara-Gonzalez, PhD
2019	Melanie Boly, PhD	Neurostimulation and Neuroimaging of Subcortical Arousal Circuits in Epilepsy	Melanie Boly, PhD; Jin Hyung Lee, PhD; and Hal Blumenfeld, MD, PhD

2019	Hajime Takano, PhD	Recent Advances in Microelectrode Array Technology and Its Applications	Flavia Vitale, PhD; Timothy Harris, PhD; and Ikuro Suzuki, PhD
2019	Douglas Coulter, PhD	Circuit Based Therapies in Epilepsy	Robert F. Hunt, PhD; Julia Kahn, BS; Dimitri Kullmann, MD
2019	Jeanne T. Paz, PhD; and Daniel Lowenstein, MD	Gut Microbiome and Epilepsy: Paradigm Shifting Advances for Understanding and Treating Epilepsy	Gloria Choi, PhD; Elain Hsiao, PhD; and Audrey Mazarati, MD
2019	Gemma Carvill, PhD; and Heather Mefford, MD, PhD	Poison Exons: From Development and Disease to Therapeutic Target	Gemma Carvill, PhD; Lori L. Isom, PhD; and Xiaochang Zhang, PhD
2019	Chris Dulla, PhD; and Laura Ewell, PhD	Seeing the Forest or the Trees: Does Synaptic and Cellular Heterogeneity Support Pathological Network Activity Level?	Heinz Beck, MD; Xia Yang, PhD; and Krishna Jayant, PhD
2019	Vaishnav Krishnan, MD, PhD	On Melancholia in Epilepsy: Mechanistic Insights into the Comorbidity of Epilepsy with Depression and Anxiety	Vaishnav Krishnan, MD, PhD; Raman Sankar, MD, PhD; and Jamie L. Maguire, PhD

2019	David C. Henshall, PhD	Oligonucleotide Therapies for Epilepsy: A New Era in Precision Medicine?	Cristina Reschke, PhD; Steve Petrou, PhD; and Claes Wahlstedt, MD, PhD
2019	F. Edward Dudek, PhD; and Bruce Gluckman, PhD	Ultra-slow and DC Recordings to Study Seizures, Migraine, and Spreading Depression	KC Brennan, MD; Punam Sawant, PhD; and Fatemeh Bahari, PhD candidate
2018	Jeffrey Noebels, MD, PhD	The Storm before the Quiet: Basic mechanisms of SUDEP	Moderator: Jeffrey Noebels, MD, PhD; Speakers: Jeffrey Noebels, MD, PhD, George Richerson, MD, PhD, Lori Isom, PhD
2018	John Huguenard, PhD	Do rodent models of generalized absence seizures represent human disease or simply normal rodent behavior?	Moderator: John Huguenard, PhD; Speakers: Cian McCafferty, BSc, PhD, Helen Scharfman, PhD, Daniel Barth, PhD
2018	Mark Beenhakker, PhD	Induced Pluripotent Stem Cell Strategies to Study Neurological Disorders	Moderator: Mark Beenhakker, PhD; Speakers: Zhiping Pang, PhD, Michael McConnell, PhD, Jack Parent, MD
2018	Tracy Dixon-Salzar, PhD and Brenda Porter, MD, PhD	Genes, models and imaging in Lennox-Gastaut Syndrome	Moderators: Tracy Dixon-Salzar, PhD and Brenda Porter, MD, PhD; Speakers: Aaron Warren, MSc, Bpsych, Heather Mefford, MD, PhD, Jeanner Paz, PhD

2018	Kyle Lillis, PhD	Optical studies of inhibition and excitation at seizure onset in acquired and evoked epilepsy	Moderator: Kyle Lillis, PhD; Speakers: Ethan Goldberg, MD, PhD, Andrew Trevelan, DPhil., MB BCh, MA, Lauren Lau, PhD
2018	Sydney Cash, MD, PhD	Using Big Data for Basic, Translational and Clinical Research in Epilepsy	Moderator: Sydney Cash MD, PhD; Speakers: M. Brandon Westover, MD, PhD, Gari Clifford, D.Phil, Vikram Rao, MD, PhD
2018	Phillip Iffland, PhD	GATORopathies: the Role of Amino Acid Regulatory Protein Mutations in Epilepsy and Cortical Malformations	Moderator: Peter Crino, MD, PhD; Speakers: Phillip Iffland, MD, PhD, Vincent Carson, MD, Angelique Bordey, PhD
2018	Jamie Maguire, PhD	Inhibition in the epilepsies: problematic or therapeutic?	Moderator: Scott Baraban, PhD; Speakers: Molly Huntsman, PhD, Mariana Casalia, PhD, Suzanne Paradis, PhD
2018	Eliana Scemes, PhD	Astrocytes in Epilepsy: cause or consequence?	Moderators: Eliana Scemes, PhD, Jana Veliskova, PhD; Speakers: Jerome Clasadonte, PhD, Detlev Boison, PhD, Christian Steinhäuser, PhD
2018	Rodney Scott, PhD	Harnessing complexity for therapeutic gain	Moderator: Rodney Scott, MD, PhD; Speakers: John Matthew Mahoney, PhD, Andre Fenton, PhD, Kaja Kobow, PhD

2017	Luca Bartolini	Inflammation and epilepsy: where do we stand and where do we go from here?	Moderator: William H. Theodore, M.D., Speakers: Luca Bartolini, M.D., Annamaria Vezzani, Ph.D., Jacqueline A. French, M.D.
2017	Michael Hildebrand	Somatic mutation: the 'hidden genetics' of brain malformations	Moderators: Michael Hildebrand, Ph.D., Heather Mefford, M.D., Ph.D.; Speakers: Annapurna Poduri, M.D., Naomichi Matsumoto, M.D., Ph.D.
2017	Peyman Golshani	In-vivo imaging of network dynamics in epilepsy	Moderator: Peyman Golshani, M.D., Ph.D.; Speakers: Stelios Smirnakis, M.D., Ph.D., Matthew Shrtahman, M.D., Ph.D., Istvan Mody, Ph.D.
2017	Christina Gross	MicroRNA-induced silencing in epilepsy- potential treatment target and biomarker	Moderator: Christina Gross, Ph.D.; Speakers: David Henshall, Ph.D., Eleonara Aronica, M.D., Ph.D., Karl Martin Klein, M.D., Ph.D.
2017	Sarah Muldoon	Data-driven computational modeling of epileptic network structure	Moderator: Sarah Muldoon, Ph.D., Speakers: Viktor Jirsa, Ph.D., Marcus Kaiser, M.D., Ph.D., Ankit Khambhati, Ph.D.
2017	Bret Smith	Are animal models of post-traumatic epilepsy translational?	Moderator: Bret Smith, Ph.D.; Speakers: Bret Smith, Ph.D., Asla Pitkanen, M.D., Robert Hunt, Ph.D.

2017	Joaquin Lugo	From inflammation to phagocytosis: how microglia shape vulnerable neuronal networks in epilepsy	Moderator: Joaquin Lugo, Ph.D.; Speakers: Amy Brewster, Ph.D., Sookyong Koh, M.D., Ph.D., Amanda Sierra, Ph.D.
2017	Chris Dulla	NMDA receptors in epilepsy: mutations, inhibitory circuits, and personalized medicine	Moderator: Heather Mefford, M.D., Ph.D.; Speakers: Chris Dulla, Ph.D., Steve Traynelis, Ph.D., Gemma Carvill, Ph.D.
2017	Shilpa Kadam	KCC2 hypofunction in epilepsy: developing novel therapeutic strategies to modulate K ⁺ /Cl ⁻ Co-transporter 2 (KCC2) function	Moderator: Stephen Moss, Ph.D.; Speakers: Shilpa Kadam, Ph.D., Tarek Deeb, Ph.D., Anatoly Buchin, Ph.D.
2017	Tallie Z. Baram	Divergent and overlapping mechanisms contribute to epilepsy and its comorbidities	Moderators: Julia Kahn, Ph.D., Christophe Bernard, Ph.D.; Speakers: Tallie Z. Baram, Ph.D., Christophe Bernard, Ph.D., Pierre-Pascal Lenck-Santini, Ph.D.
2016	Long-Jun Wu	Glial mechanisms of epilepsy	Moderator: Long-Jun Wu, Ph.D. Speakers: Ukpong Eyo, Ph.D., Devin Binder, Ph.D., Karen Wilcox, Ph.D.
2016	Helen Scharfman	Role of aberrant neurogenesis in epileptogenesis	Moderator: Jenny Hsieh, Ph.D. Speakers: Helen Scharfman, Ph.D., Kyung-Ok Cho, M.D., Ph.D., Steve Danzer, Ph.D.

2016	Jenny Hsieh	Emerging strategies using stem cells to prevent epilepsy	Moderator: Helen Scharfman, Ph.D. Speakers: Jenny Hsieh, Ph.D., Jack Parent, M.D., Robert Hunt, Ph.D.
2016	Peter Carlen and Marco de Curtis	Seizure termination: multiple mechanisms	Moderators: Peter Carlen, M.D., Marco de Curtis, M.D. Speakers: Marco de Curtis, M.D., Peter Carlen, M.D., Paolo Bazzigalupi, Ph.D.
2016	Manisha Patel	Peripheral and imaging biomarkers in epilepsy	Moderator: Manisha Patel, Ph.D., Stefanie Dedeurwaerdere, Ph.D. Speakers: Stefanie Dedeurwaerdere, Ph.D., Svenja Heischmann, Ph.D., William Theodore, M.D.
2016	Chris Dulla	Novel intracellular signaling cascades and epilepsy: Is there untapped therapeutic potential?	Moderator: Chris Dulla, Ph.D. Speakers: Gaia Novarino, Ph.D., Michele Jacob, Ph.D., Angelique Bordey, Ph.D.
2016	Dr. Jana Veliskova	Autistic traits in epilepsy models: Why, when and how?	Moderator: Jana Veliskova, M.D., Ph.D. Speakers: Melissa Benson, Ph.D., Jill L. Silverman, Ph.D., Pierre-Pascal Lenck Santini, Ph.D.
2016	Devin K. Binder (co organizer: Viji Santhakumar)	Neurovascular Unit in Seizures and Epilepsy	Moderators: Devin Binder, Ph.D., Viji Santhakumar, Ph.D. Speakers: Nicola Marchi, Ph.D., Todd Fiacco, Ph.D., G. Campbell Teskey, Ph.D.

2016	Dan Xu, Ph.D. and Sookyong Koh, M.D. Ph.D.	Novel Immunomodulatory Therapies in Epilepsy	Moderators: Dan Xu, Ph.D., Sooky Koh, M.D., Ph.D. Speakers: Dan Xu, Ph.D., Eleonora Aronica, M.D., Ph.D., Teresa Ravizza, Ph.D.
2016	Sam Berkovic, Melbourne (co-chair Ingo Helbig, Philadelphia)	Whole exome sequencing in the epilepsies: making sense of the sequence data.	Moderators: Sam Berkovic, M.D., Ingo Helbig, M.D. Speakers: Sarah Weckhuysen, M.D., Slave Petrovski, Ph.D., Roland Krause, Ph.D.
2015	Michael Wong, Darcy Krueger	A Model Approach for Developing Antiepileptogenic Drugs: Targets, Biomarkers, and Barriers	Martina Bebin, Michael Wong, Joyce Wu
2015	Joaquin Lugo and Amy Brewster (co-organizer)	The role of fragile x mental retardation protein in epilepsy, ion channels, and behavioral comorbidities	Joaquin Lugo, PhD, Christina Gross, PhD, Tim Benke, MD, PhD
2015	Karen Wilcox & Doug Coulter	Emerging technologies for imaging the neural circuits underlying seizures	Jin Hyung-Lee, Ph.D. , Hajime Takano, Loren Looger
2015	Chris Dulla	Energy metabolism and dynamic brain states	Mark Beenhakker, Christophe Bernard, Susan Masino

2015	Viji Santhakumar and Anne Anderson	Immune and non-cannonical effects of inflammation in seizure disorders	Amy Brewster, Lisa Boulanger, Annamaria Vezzani
2015	Omar Jamil Ahmed	Role of potassium ions and channels in shaping seizure dynamics	Steven Schiff, Atilla Gulyas, Bernardo Rudy
2015	Kristina A. Simeone and Manisha Patel	Targeting mitochondrial function as an antiseizure strategy	Kristina A. Simeone , Patrick G. Sullivan, Elizabeth Jonas
2015	Annapurna Poduri; Bill Dobyns	Genetics, Biology, and Treatment of the Early Life Epilepsies	Alex Paciorkowski: Early life epilepsy caused by mutations in genes of the synapse, Ghayda Mirzaa: Somatic and germline mutations in growth and signaling pathways, Anne Berg: Toward a molecularly-driven classification of early life epilepsy
2015	Brian Litt, MD	Cutting Edge Technologies for Multi-Scale Recording in Epilepsy	Duygu Kuzum, PhD, UPenn (Transparent graphene electronics for simultaneous optical and electrophysiology recording in brain), Adam Cohen, PhD, Harvard (Optical electrophysiology reporting in epilepsy), Lee Bassett, PhD, UPenn (Nano-diamonds and optogenetic molecules for ion channel sensing)
2014	Tallie Z. baram	On status epilepticus and 'epileptic neurons': energy, molecular signaling, epigenetics	Katja Kobow, Jong Rho, R. Coppari (McNight as backup)- expert on mechanisms by which excessive cellular energy demand activates mastter regulators of gene expression

2014	Jack M. Parent, MD	Modeling Epilepsies with Patient-Derived Induced Pluripotent Stem Cells	Kevin Ess, Jack Parent, Lori Isom
2014	Sam Berkovic	Unraveling the basis of heterogeneity in genetic epilepsy	Christopher Reid, Dennis Dlugos, Peter Crino
2014	Kamil Detyniecki, MD	Cannabinoids in Epilepsy	Charlotte Hill, PhD, Benjamin J. Whalley, BPharm, PhD, Orrin Devinsky, MD
2014	P. Elyse Schauwecker, Ph.D.	The role of noncoding RNAs in epilepsy pathogenesis: novel therapeutic targets?	Jan Gorter, Ph.D. (or a Junior investigator from the lab), Elyse Schauwecker, Ph.D., David Henshall, Ph.D. (or a Junior investigator from his lab)
2014	Gordon F Buchanan, MD, PhD	SUDEP mechanisms: a basic science perspective	Gordon F Buchanan, MD, PhD, Jeffrey L Noebels, MD, PhD, George B Richerson, MD, PhD
2014	Slavé Petrovski	Finding risk alleles in generalized epilepsies: Next generation sequencing and the virtues of large collaborations	Slavé Petrovski, Roland Krause, Patrick Cossette

2014	Mohamad Koubeissi, MD	Low-frequency stimulation in epilepsy	Mohamad Koubeissi, MD, George Washington University, Washington DC, Dominique Durand, PhD, Case Western Reserve University, Cleveland Ohio, G. Campbell Teskey, PhD, University of Calgary, Calgary, Alberta, Canada
2014	Catherine Schevon (Columbia University)	Which parts of the brain participate in seizures, and why does it matter?	Andrew Trevelyan (Newcastle University, UK), Hal Blumenfeld (Yale University), Catherine Schevon (Columbia University)
2014	Chris Dulla and Aristeia Galanopoulou	Understanding Infantile Spasms: A Pathogenic Perspective	Chris Dulla, Jeff Noebels, John Swann
2013	Michael Miles	Mitochondrial abnormalities in malformations of cortical development	Hansel Greiner, Lili Miles, Michael Miles
2013	Ed Cooper	The KCNQ2-associated epilepsy and encephalopathy spectrum : bedside to bench and back	John Millichap, Northwestern Lurie Children's Memorial (Doug Nordli Group), Mark Shapiro, UT San Antonio, Mala Shah, Univ. College London School of Pharmacy
2013	Peter B. Crino M.D., Ph.D.	Translational Neurogenetics of Hemimegalencephaly	Annapurna Poduri M.D., Laura Flores-Sarnat M.D., Peter B. Crino M.D., Ph.D.

2013	Chris Dulla	Astrocyte control of the extracellular environment – pathological and therapeutic implications	Chris Dulla, Daniela Kaufer, Harald Sontheimer
2013	Manisha Patel PhD and Helen Scharfman	Engaging Basic Scientists in the Early Stages of Drug Discovery	
2013	Audrey Yee	Cell Signaling Pathways in Epileptogenesis	Marco Gonzales, Molly Huntsman, Audrey Yee
2013	Christophe Bernard	Controlling Seizures with Electrical Light Orchestra	Jeanne Paz or John Huguenard, Gyuri Buzsaki, Robert C Wykes or Dimitri Kullmann
2013	Steve White, PhD and Nicholas Poolos, MD, PhD	Antiepileptic drug and device development--what does the future hold?	Henrik Klitgaard, PhD, UCB Pharma, SA, Marty Morell, MD, Stanford Univ., and NeuroPace, Inc., Christopher Wright, MD, PhD, Vertex Pharmaceutical
2013	Michael Wong	Dendritic injury in epilepsy: mechanisms and consequences.	Anne Anderson, John Swann, Michael Wong

2013	Aristea Galanopoulou, Karen Wilcox	Translating seizure terminology, modeling, and detection from rodents to humans is consensus possible?	Aristea Galanopoulou, Karen Wilcox, Discussants: Solomon Moshé, Alexis Arzimanoglou, Brian Litt
2013	Chris Dulla	Young Investigators Workshop	
2012	Alica Goldman	Predictive Genes, Basic Mechanisms, and Clinical Biomarkers of SUDEP	Alica Goldman, MD,PhD (introducer), George Richerson, MD, PhD (speaker), Llsa Bateman (speaker)
2012	Scott Baraban & Ed Dudek	Swimming toward a new path for drug discovery in epilepsy: an open discussion of novel approaches using zebrafish, mice and induced pluripotent stem cells	H. Steve White, Kevin Staley, Scott Baraban
2012	Tallie Z. Baram, MD, PhD	It takes two to tango: Dance of neuronal ion channels and their auxiliary subunits.	Yoav Noam, PhD (Dec 2011), Lori Isom, PhD, Dane Chetkovich, MD, PhD
2012	Scott Baraban	What's Next? A Young Investigator Workshop	

2012	Christophe Bernard	What does it mean to be interictal spikes - do we have a predictive value?	Massimo Avoli, Kevin Staley, Christophe Bernard + 4th speaker Elaine Wirrell
2012	Sam Berkovic	Massively Parallel Sequencing in Epilepsy	Heather Mefford (Seattle), David Goldstein (Duke), Ingo Helbig (Kiel, Germany; also a junior investigator)
2012	Anne Anderson	Dysfunctional phosphorylation signaling in epilepsy	Amy Brewster, PhD, Jaimes Trimmer, PhD, Nicholas Poolos, MD, PhD
2012	Raimondo D'Ambrosio	Neocortical Focal Seizures in Etiologically Realistic Models of Acquired Epilepsy	Raimondo D'Ambrosio, Ph.D., Ramon Diaz-Arrastia, M.D., Ph.D., Harry Sontheimer, Ph.D.
2012	Aristea Galanopoulou	Validation of epilepsy biomarkers in humans: goals, successes, challenges	Laura Jansen , Gilles Huberfeld , Joeff Loeb
2012	Brenda Porter	The extracellular matrix in epilepsy	Paulette Mcrae- Will talk about the perineuronal net following status epilepticus at different ages., Chris Ikonomidou- Will talk about MMP-9 destruction of the extracellular matrix and contribution to epileptogenesis, This is the problem! Have been back and forth with several European and Japanese groups and still working on the final person.

2012	Kai Kaila	Brain pH in the generation and suppression of seizures	Saul Mullen, Steven Petrou, Kai Kaila
2011	Michael A. Rogawski	Neurobiological Mechanisms of Comorbidities	Andrey M. Mazarati, M.D., Ph.D., Gregory L. Holmes, M.D., Carl Stafstrom, M.D., Ph.D.
2011	Michael Wong	Cell signaling pathways and epileptogenesis	Daniela Kaufer, Amy Brooks-Kayal, Michael Wong
2011	Russell Ferland, PhD	The importance of subcortical structures in epilepsy	Russell Ferland, PhD, Hal Blumenfeld, MD, PhD, Carl Faingold, PhD
2011	Manisha Patel	Novel therapeutic target identification for epilepsies from the ketogenic diet research	Lui Lin Thio or Mike Wong, Jong Rho , Manisha Patel
2011	Ingmar Blumcke	The "methylation hypothesis": does epigenetic chromatin modification play a role in epileptogenesis ?	Dr. Katja Kobow, Dr. Detlev Boison, Dr. Mark Mehler

2011	John Jefferys	Mechanisms of high frequency activity in epileptic foci	Premysl Jiruska, Liset de la Prida, Kevin Staley
2011	Ed Dudek	Neuronal death and pediatric epilepsy: Any effect of early-life seizures? A cause -or not- of later epilepsy?	Shipa Kadam, Frances Jensen, Kevin Staley
2011	Scott C. Baraban	What's Next? A Young Investigator Workshop	TBD - recent EF postdoc awardee, TBD - recent EF postdoc awardee, TBD - recent EF predoc awardee
2011	Paul Buckmaster	Seizure localization: A clinical challenge to basic scientists	please see below, please see below, please see below
2011	Brian Litt, M.D., Gregory Worrell MD, PhD	Studying High Frequency Oscillations, Microseizures and Human Microelectrode Recordings Using the International Epilepsy Electrophysiology Database (IEED) and Cloud Computing	S. Matt Stead MD, PhD (Mayo Clinic) , Zachary Ives, PhD, computer science/ cloud computing (UPenn), Javier Echaz PhD (JE Research) and Justin Blanco PhD (UPenn)
2011	John J Hablitz	Molecular, Cellular and Network Aspects of HCN Channel Function in Epilepsy	Bina Santoro, Tallie Baram, John Hablitz

2010	Lisa R. Merlin, MD	Endogenous regulation of mGluR-mediated epileptogenesis	Henri Tiedge - Endogenous regulation of group I mGluR signalling and epileptogenesis, Eric Klann, PhD - Signal transduction mechanisms involved in group I mGluR signalling, Randi Hagerman, MD - Clinical significance of group I mGluR mediated hyperexcitability in Fragile X
2010	Detlev Boison	Adenosine and epilepsy - promising start into a new century: the first decade	Tom Swanson, University of Montana, Phil Haydon, Tufts University, Susan Masino, Trinity College
2010	Christophe Bernard	Epigenetic mechanisms of epileptogenesis	Ray Dingledine, Atvar Roopra, Tallie Z Baram
2010	Verena C Wimmer	The emerging role of the axon initial segment in epileptogenesis	Ed Cooper, Matthew Rasband, Verena C Wimmer
2010	Asla Pitkanen	Peptidopathy, channelopathy or bad network - what causes epilepsy in Alzheimer's disease?	Jeffrey Noebels, Helen Scharfman, Jorge Palop (back up DM Kovacs), Asla Pitkanen
2010	Elizabeth Powell	"Interneuronopathies" -Diversity in the phenotypes of genetic mutations that alter forebrain GABAergic interneuron ontogeny	Karen Muller Smith, PhD, Eric Marsh, MD, PhD, Molly Huntsman, PhD

2010	Anatol Bragin	Earlier Detection of Epileptogenesis and Search for Effective Protective Treatment in Experimental Models and in Clinic	Asla Pitkanen, Stanislav Karsten, Raman Sankar
2010	Ruth Ottman, Ph.D.	Neurobiological Mechanisms in Genetic Focal Epilepsies: the Case of LGI1	Ruth Ottman, PhD, Columbia University: Clinical and Genetic Approaches, John K. Cowell, PhD, DSc, FRCPath, Medical College of Georgia: Transcriptional Profiling, Cell Culture, Proteomics, and Mouse Knockout Approaches, Matthew P. Anderson, MD, PhD, Harvard Medical School: Bacterial Artificial Chromosome Engineering and Transgenic and Neural Circuit Approaches
2010	Astrid NEHLIG, INSERM U 666, Strasbourg, France	The endocannabinoid system and temporal lobe epilepsy	I Grant, UC San Diego, La Jolla, CA, USA, R. de Lorenzo, Virginia Commonwealth University, Richmond, VA, USA, K. Goffin, University of Leuven, Belgium
2010	David Prince	Control of synapse formation and epileptogenesis	Ben Barres, Z.David Luo, David Prince
2009	Andre Lagrange	Epilepsy and Depression- The Two Faces of BDNF/Jak Dependent Neurogenesis	Linda Overstreet- Wadiche (Univ of Alabama) - Epilepsy and Neurogenesis, Shelley Russek- BDNF Dependent Changes in Neurotransmission, Francis Lee (Cornell)- Animal Models of Neurogenesis in Mood Disorders,
2009	Jack Parent and Scott Baraban	Stem Cells and Epilepsy	Hongjun Song, Scott Baraban, Jack Parent, Lori Isom or Miriam Meisler

2009	Theodore H. Schwartz	Optical imaging of epilepsy - hemodynamic and light scattering changes in the brain	Theodore Schwartz, Michael M. Haglund, Syd Cash, Devin Binder
2009	Kevin Staley	Imaging synchrony with activity-dependent dyes: the nuts and bolts	Rosa Cossart - Calcium imaging of synchronous discharges in the developing brain, Douglas Coulter - Voltage and calcium activities in acute slices, Kevin Staley - Calcium and chloride activities in organotypic slices; organizing results, John White - new microscopic techniques for activity-dependent imaging
2009	Annamaria Vezzani, PhD	The impact of neuroinflammation on neuronal excitability and excitotoxicity	A. Volterra-Department of Cell Biology and Morphology, University of Lausanne, Rue du Bugnon 9, 1005 Lausanne, Switzerland.Title: Neuron-astrocyte cross-talk during synaptic transmission: implications for CNS disorders characterized by neuroinflammation., E.C. Beattie -California Pacific Medical Center Research Institute, San Francisco, California 94107, USA.Title:TNFalpha-AMPA receptor interactions in CNS neurons; relevance to excitotoxicity, M. Maroso-Mario Negri Inst for Pharmacol Res., Dept Neuroscience. Milano. Italy. Title: Toll-like receptor signaling in neuronal
2009	Steven Petrou	Rodent models of febrile seizures.	Tallie Baram, Kai Kaila, Bill Catterall, Solomon Moshe
2009	Christian Steinhäuser	Neuron-glia signaling and epilepsy	Giorgio Carmignoto, Annamaria Vezzani, Christian Steinhäuser
2009	Maria Roberta Cilio, MD, PhD	Do neonatal seizures per se cause brain damage? New insights from mutations of potassium channels	Timothy Benke, MD, PhD, University of Colorado, Maria Roberta Cilio, MD, PhD, Bambino Gesù' Children's Hospital, Rome, Italy, Maurizio Tagliatela, MD, PhD, University of Naples, Italy, Nanda Singh, PhD, University of Utah

2009	Ley Sander	Possible Mechanisms of SUDEP: towards prediction and prevention	JW Sander , S Kalitzin, BJ Murraray, PL Carlen
2009	Russell Sanchez	Curing the disease by replacing the defective gene: is it so straightforward?	Tom McCown, Beverly Davidson, Franceso Noe
2009	Aristea Galanopoulou MD PhD	Rapamycin: from tuberous sclerosis and beyond.	Peter Crino, M.D., Ph.D., Michael Wong, M.D., Ph.D., Paul Buckmaster, D.V.M., Ph.D., Emmanuel Raffo, M.D., Ph.D.
2008	Tallie Z Baram	Ion channel traffic jams in epilepsy	Dax Hoffman , Dane Chetkovich, Tallie Z Baram, Christophe Bernard
2008	Marco de Curtis	reconsidering focal ictogenesis	Anatol Bragin, Miles Whittington, Richard Miles, Peter Carlen
2008	Carl E. Stafstrom, MD, PhD	Catastrophic Childhood Epilepsies: Emerging Mechanisms from Experimental Models	Aristea Galanopoulou, Chong Lee, Eric Marsh , Libor Velisek

2008	Douglas A. Coulter	The Dentate "Gate": What is it, what regulates it, and is it compromised in epilepsy?	Douglas Coulter, Ivan Soltesz, Istvan Mody, Robert Brenner
2008	Molly Huntsman	The comorbidities of epilepsy: The unification of multiple disease states through basic mechanisms.	RKS Wong, Kevin Ess, L. Mucke, Alison Barth
2008	Alon Friedman	Interactions within the neurovascular unit and epileptogenesis	Daniela Kaufer, Berkeley, Christian Steinhauser, Bonn, Brian MacVicar
2008	Jong M. Rho, MD	Do Anticonvulsants Injure the Immature Brain?	Chrysanthy Ikonomidou, Richard H. Finnell, Kimford Meador
2008	Terence J. O'Brien, Melbourne, Australia	ABSENCE SEIZURES AND THE CORTICAL FOCUS	Gilles van Luijtelaa, PhD, Nijmegen, The Netherlands, Didier Pinault, PhD, Strasbourg, France, Graeme Jackson, MD. Melbourne, Australia
2008	Martin J. Gallagher MD, PhD	Idiopathic Generalized Epilepsy Ictogenesis and Epileptogenesis: a Cross-disciplinary Discussion from Molecule to Human Brain	Robert Macdonald MD, PhD, John R. Huguenard, PhD, Steven Petrou, PhD, Hal Blumenfeld MD, PhD

2008	Karen Wilcox	New developments in neuroprotection	Karen Wilcox, Manisha Patel, D.M. Chuang, H.Steve White
2008	Ed Dudek	Surrogate markers in animal models of acquired epilepsy: The good, the bad and the ugly.	F. Edward Dudek, Tallie Z. Baram , Frances E. Jensen, Edward H. Bertram
2007	Carl E. Stafstrom, MD, PhD	Metabolic control of epilepsy	Jong Rho, MD, Manisha Patel, PhD, Kristopher Bough, PhD, Avtar Roopra, PhD
2007	Peter Carlen	Raised extracellular potassium: convulsant and anticonvulsant mechanisms	Peter Carlen, Dominique Durand, Igor Timofeev, Yoel Yaari
2007	Annamaria Vezzani	The proliferating brain and its role in epileptogenesis	Jack Parent, Eleonora Aronica, Teresa Ravizza, Mireille Lerner-Natoli
2007	Gregory Worrell, M.D., Ph.D., and Brian Litt, M.D.	Broad-Band Intracranial EEG In Patients with Epilepsy: A Window On Functional Human Networks	Gyorgy Buzaki, M.D., Ph.D. Large-Scale Recordings of Functional Networks in Brain, Michael Kahana, Ph.D. Mapping Memory from Human Recordings, Christoff Koch Ph.D. Visual perception and visual Consciousness

2007	David C. Henshall	Emerging cell & molecular targets for anti- epileptogenesis	Asla Pitkanen, Yurri Bozzi, David Henshall, Detlev Boison
2007	Melanie Tallent	The Transition from Interictal to Ictal Bursting: An Update	Gilles Huberfeld, Li-Rong Shao, W. B. Swiercz, Melanie Tallent
2007	Manisha Patel	Mitochondrial (dys)function and epilepsy	Mitochondrial redox changes following status epilepticus (M. Patel), Mitochondrial trafficking and morphology in healthy and injured neurons (I.J. Reynolds, Merck), Mitochondrial dysfunction in temporal lobe epilepsy (W. Kunz, Univ. Bonn), Mitochondrial dysfunction during neuronal activation in the ex vivo hippocampus (Uwe Heinemann)
2007	Amy Brooks-Kayal	Mechanisms regulating gene expression in epileptogenesis	Ray Dingleline- Emory, Avtar Roopa- University of Wisconsin, Shelley Russek- Boston University, Amy Brooks-Kayal- University of Pennsylvania/CHOP
2007	Russell Sanchez	Varied Roles of BK-type Potassium Channels in the Regulation of Neuronal Excitability: Which are Important for Epilepsy?	Johan Storm, George Richerson, Alison Barth
2007	David Prince	Sick axons and epileptogenesis	David Prince, Rafael Gutierrez, David McCormick

2007	Heinz Beck	Homeostatic plasticity and epilepsy	Eve Marder, Ivan Soltesz, Jeff Noebels
2006	Jack Parent, M.D.	Aberrant neurogenesis in the epileptic hippocampal formation	Jack M. Parent, M.D., Sebastian Jessberger, M.D., Helen Scharfman, Ph.D., Lee Shapiro, Ph.D.
2006	Claude G. Wasterlain, M.D.	Receptor trafficking during epileptic seizures	Claude G. Wasterlain, M.D., Jaideep Kapur, M.D., Ph.D., Robert DeLorenzo, Robert MacDonald
2006	Robert Schwarcz, Ph.D.	Entorhinal glial cells and TLE: an exciting connection * combine with Beck, synchronization	Guy McKhann III, Uwe Heinemann, Helen Scharfman, Robert Schwarcz, Ph.D.
2006	Frances E. Jensen, M.D.	Molecular and Cellular Alterations in TSC: Functional Implications	Peter Crino, M.D., Ph.D., David Kwiatkowski, M.D., Ph.D., Frances Jensen, M.D., Veronica A. Alvarez, Ph.D.
2006	Damir Janigro, Ph.D.	Unorthodox mechanisms of epileptogenesis	Philip G. Haydon, Ph.D., Marco de Curtis, M.D., Nicola Marchi, Ph.D., Alon Friedman, M.D., Ph.D.

2006	Matthias J. Koepp, M.D., Ph.D.	The role of opioids in epilepsy	Frank C. Tortella, Friedrich Zimprich, Matthias J. Koepp, M.D., Ph.D.
2006	L. Matthew Frank, M.D.	Gene Therapies and Epilepsy: New Therapeutic Directions"	Pat Iverson, Steve Wilton
2006	Edward Bertram, M.D.	New Therapeutric Directions	Edward Bertram, M.D., Amy Brooks-Kayal, M.D., Daniel Lowenstein, M.D., Gary Mathern, M.D.
2006	Matthew P. Anderson, M.D., Ph.D.	Engineering the mouse nervous system to decipher the mechanisms of human epilepsy	Matthew P. Anderson, M.D., Ph.D., Istvan Mody, Ph.D., Scott C. Baraban, Ph.D., Robert Brenner, Ph.D.
2006	Nicholas Poolos, M.D., Ph.D.	H-channelopathy workshop	Tallie Baram, M.D., Ph.D., Thomas Budde, Ph.D., Nicholas Poolos, M.D., Ph.D.
2006	Douglas A. Coulter, Ph.D.	The role of the glutamine cycle in dynamic regulation of normal and pathological function of the CNS	Douglas A. Coulter, Ph.D., Tore Eid, M.D., Ph.D., John Huguenard, Ph.D., Robert Edwards, M.D.

2005	Baraban, Scott C., PhD	Fly, fish, and worm models of epilepsy	Guy A. Caldwell, PhD, Mark Tanouye, PhD, Scott C. Baraban, PhD
2005	Ben-Ari, Yehezkel, DSc	Do seizures beget seizures?	Yehezkel Ben-Ari, DSc, Mircea Steriade, MD, DSc, Yehezkel Ben-Ari, DSc, F. Edward Dudek, PhD
2005	Dudek, F. Edward, PhD	Gap junctions and electrotonic coupling in hippocampus and neocortex: which connexins couple whom?	John E. Rash, PhD, Roger D. Traub, MD, Barry W. Connors, PhD
2005	Hochman, Daryl W., PhD	Ion cotransport and epilepsy	Dale C. Hesdorffer, PhD, Kevin J. Staley, MD, Daryl W. Hochman, PhD
2005	Koepp, Matthias, MD, PhD	Imaging excitatory neurotransmission	Raymond J. Dingledine, PhD, Ognen A. Petroff, MD, Matthias Koepp, MD, PhD
2005	Mathern, Gary W., MD	Epileptogenesis of cortical dysplasia: Compare and contrast animal models with mechanisms gleaned from human studies	

2005	Mikati, Mohamad, MD	Seizure-related programmed cell death	Claude G. Wasterlain, MD, Alexei D. Kondratyev, PhD, Mohamad Mikati, MD
2005	Pitkanen, Asla, MD, PhD	In vivo imaging epileptogenesis and epilepsy: from techniques to applications	Jeff W.M. Bulte, PhD, Olli Grohn, PhD, Tallie Z. Baram, MD, PhD
2005	Scharfman, Helen E., PhD	Animal models of catamenial epilepsy	Helen E. Scharfman, PhD, Jessica A. Fawley (graduate student), Jaideep Kapur, MD, PhD
2005	Schiff, Steven J., MD, PhD	Interpreting multivariate EEG and fMRI signals	Steven J. Schiff, MD, PhD, Eshel Ben-Jacob, PhD, Ivan Osorio, MD, Bjorn Schelter (graduate student)
2005	Vezzani, Annamaria, PhD	Inflammation and epilepsy	Tallie Z. Baram, MD, PhD, Milan Fiala, MD, Annamaria Vezzani, PhD, Raymond J. Dingledine, PhD
2004	Kevin M. Kelly, M.D., Ph.D.	Models of epilepsy in aging	Eric M. Blalock, Ph.D., Peter R. Patrylo, Ph.D., Kevin M. Kelly, M.D., Ph.D.

2004	Massimo Avoli, M.D., Ph.D.	Plasticity of chloride transport and GABA signaling	Melanie Woodin, Ph.D., Richard Miles, Ph.D., Francisco J. Alvarez-Leefmans, M.D., Ph.D.
2004	Arnold R. Kriegstein, M.D., Ph.D.	Origin and migration of cortical neurons	Joseph Loturco, Ph.D., Stewart A. Anderson, M.D., Samuel J. Pleasure, M.D., Ph.D.
2004	Jong M. Rho, M.D.	Ketone bodies and neuronal excitability	W. McIntyre Burnham, Ph.D., Gary Yellen, Ph.D., Jong M. Rho, M.D.
2004	Margaret P. Jacobs	Creating new animal models of the childhood epilepsies	Solomon L. Moshe, M.D., Astrid Nehlig, Ph.D., Philip A. Schwartzkroin, Ph.D., John W. Swann, Ph.D.
2004	John J. Hablitz, Ph.D.	The role of kainate receptors in epilepsy	Anis Contractor, Ph.D., Michael A. Rogawski, M.D., Ph.D., Yehezkel Ben-Ari, Ph.D.
2004	Peter L. Carlen, M.D. and John G.R. Jefferys, Ph.D.	Non-synaptic seizure mechanisms	Dominique Durand, Ph.D., Ante L. Padjen, M.D., Renato Rozental, M.D.

2004	James O. McNamara, M.D.	Neurotrophins: Epileptogenesis and electroconvulsive seizures	James O. McNamara, M.D., Helen E. Scharfman, Ph.D., Samuel S. Newton, Ph.D.
2004	Scott M. Thompson, Ph.D. and Cha-Min Tang, M.D., Ph.D.	The epileptic neuron: Changes in intrinsic neuronal and dendritic excitability	Ivan Soltesz, Ph.D., Heinz Beck, M.D., Dan Johnston, Ph.D., Scott M. Thompson, Ph.D.
2004	Miriam H. Meisler, Ph.D.	Sodium channel mutations in familial and sporadic epilepsy	Peter De Jonghe, M.D., Ph.D., Mauricio Montal, Ph.D., Jennifer Kearney, Ph.D.
2004	Robert K.S. Wong, Ph.D.	Modification of intrinsic ionic channels by metabotropic receptors: A mechanism for epileptogenesis?	Nelson Spruston, Ph.D., Angel Alonzo, Ph.D., Lisa R. Merlin, M.D.
2003	Tallie Z. Baram, M.D., Ph.D.	Transcriptional channelopathies in epilepsy	Douglas A. Coulter, Ph.D., Heinz Beck, M.D.
2003	John Huguenard, Ph.D.	Neuropeptides: What do they do? Why should epileptologists care?	Charles L. Cox, Ph.D., Scott C. Baraban, Ph.D.

2003	Carl E. Stafstrom, M.D., Ph.D.	Long-term seizure monitoring in experimental animal models: Video-EEG and beyond	Edward H. Bertram, M.D., F. Edward Dudek, Ph.D., Jeffrey L. Noebels, M.D., Ph.D., Mark Stewart, M.D., Ph.D.
2003	Frances E. Jensen, M.D.	Post-translational modifications in epileptogenesis	Gary Westbrook, M.D., Mark Bear, Ph.D., Anne Anderson, M.D.
2003	Ivan Soltesz, Ph.D.	Endocannabinoids in epilepsy	Bradley E. Alger, Ph.D., Benjamin Cravatt, Ph.D., Wade Regehr, Ph.D.
2003	Tony DeFazio, Ph.D. and John Huguenard, Ph.D.	T-type calcium channels in epilepsy	Edward Perez-Reyes, Ph.D., Hee-Sup Shin, M.D., Ph.D., Terrance P. Snutch, Ph.D.
2003	Melanie Tallent, Ph.D.	Benign familial neonatal convulsions and the K ⁺ M-channel: Insight into how a single gene mutation causes epilepsy	Nanda A. Singh, Ph.D., Edward Cooper, M.D., Ph.D., Karen S. Wilcox, Ph.D.
2003	George D. Richerson, M.D., Ph.D.	The role of tonic GABA inhibition and control of brain excitability	Istvan Mody, Ph.D., Robert L. MacDonald, M.D., Ph.D., Dimitri M. Kullmann, M.D., Ph.D.

2002	Andreas Hufnagel, M.D.	Stem cells in epilepsy	Ronald McKay, Ph.D., Jack Parent, M.D., Olle Lindvall, M.D., Ph.D.
2002	Orvar Eeg-Olofsson, M.D., Ph.D.	Pharmacogenetics of antiepileptic drugs (AEDs)	Rene Levy, Ph.D., Allan Rettie, Ph.D., Kenneth Thummel, Ph.D.
2002	Manisha Patel, Ph.D.	Mitochondria and free radicals	Victor Darley-Usmar, Ph.D., David G. Nicholls, FRSE
2002	John J. Hablitz, Ph.D.	Neurotransmitter transporters and epilepsy	Michael Robinson, Ph.D., Michael Quick, Ph.D., Anne Williamson, Ph.D.
2002	Philip Schwartzkroin, Ph.D.	Functional imaging in small animal models of epilepsy	Bart P. Keogh, M.D., Ph.D., Scott A. Small, M.D., Imad M. Najm, M.D., Harley I. Kornblum, M.D., Ph.D.
2002	Libor Velisek, M.D., Ph.D.	Steroid hormones and epilepsy	Stephen G. Matthews, Ph.D., Serge Rivest, Ph.D., C. Dominique Toran-Allerand, M.D., Sc.D., Jana Veliskova, M.D., Ph.D.

2001	F. Edward Dudek, Ph.D.	Hypoxic-ischemic insults and epilepsy: Models, circuits, and receptors	Kevin M. Kelly, M.D., Ph.D., Russell M. Sanchez, Ph.D., Philip Williams, D.V.M., Ph.D.
2001	Jaideep Kapur, M.D., Ph.D.	The latent period -- mechanisms and controversies	Pat R. Levitt, Ph.D., Douglas A. Coulter, Ph.D., Gary W. Mathern, M.D.
2001	Paul A. Rutecki, M.D.	Recording from large neural networks -- what can we learn from novel techniques?	Matthew A. Wilson, Ph.D., Theodore H. Schwartz, M.D., Meyer B. Jackson, Ph.D.
2001	Amy Brooks-Kayal, M.D.	Gene arrays in epilepsy research	Robert Elliott, Ph.D., James J. Doherty, Ph.D., Peter B. Crino, M.D., Ph.D.
2001	Kevin J. Staley, M.D.	Inhibition: What measures are relevant to epilepsy?	David A. Prince, M.D., Christophe Bernard, Ph.D., Istvan Mody, Ph.D.
2001	Gary Clark, M.D.	Functional studies of human epilepsy genes	Daniel Burgess, Ph.D., Andrew Escayg, Ph.D., Robyn Wallace, Ph.D.