CURRICULUM VITAE

PERSONAL DATA

| Name Address | Jaideep Kapur Department of Neurology, Box 800394 University of Virginia- HSC Charlottesville, VA 22908-0394, USA | |
|--|--|--|
| E-mail Home address E-mail Phone Fax Date of Birth Citizen | jk8t@virginia.edu 1 Steubin Iane, Charlottesville, VA 22911, USA jk8t@virginia.edu (434) 924-5312 (434) 982-1726 01/01/1961 Unites States of America | |
| EDUCATION | | |
| 1979-1985 | M.B., B.S., Maulana Azad Medical College, University of Delhi, Delhi, India | |
| 1985-1988 | Ph.D., Neuroscience, University of Virginia, Charlottesville, Virginia Advisor: E.W. Lothman, M.D., Ph.D. | |
| TRAINING | | |
| 1988-1989 | Internship, Internal Medicine, Eastern Virginia School of Medicine, Norfolk, Virginia | |
| 1989-1992 | Residency Training, Neurology, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia | |
| 1992-1993 | Clinical Electrophysiology and Epilepsy Fellowship, University Of Michigan, Ann Arbor, Michigan | |
| ACADEMIC APPOINTMENTS | | |
| 1991-1992 | Chief Resident, Department of Neurology, Medical College of Virginia | |
| 1993-1994 | Lecturer, Department of Neurology, University of Michigan | |
| 1994-1998 | Assistant Professor, Department of Neurology, University of Michigan | |
| 1998-2001 | Assistant Professor, Department of Neurology, University of Virginia | |
| 2001-2007 | Associate Professor, (with tenure, 2004) Department of Neurology, University of Virginia | |
| 2006-2007 | Harrison Distinguished Teaching Associate Professor, University of Virginia | |
| 2007-current | Professor of Neurology, University of Virginia | |
| 2007-2010 | Harrison Distinguished Teaching Professor, University of Virginia | |
| 2010-current | Eugene Meyer III Professor of Neuroscience, University of Virginia | |
| 2007-2012 | Vice-Chair for Research, Department of Neurology, University of Virginia | |
| 2012-2016 2016- | Director, Neurosciences Center, University of Virginia, Medical Center. Director, UVA Brain Institute | |
| 2010- | | |

CERTIFICATION

| 1988 1989 1994 1996 | Education Commission for Foreign Medical Graduates Federal Licensure Examination American Board of Psychiatry and Neurology (Neurology #39819) American Board of Clinical Neurophysiology (EEG) |
|-------------------------------------|--|
| LICENSES | |
| 1992-1998 1998-current | Michigan Permanent License #4301059717 Virginia Medical License #0101057328 |
| HONORS | |
| 1972-1974 1975-1977 1977-1985 | Government of India Merit Scholarship Junior Science Talent Search Scholarship National Talent Search Scholarship, National Council of Educational Research and Training, India |
| 1985-1988 1992 | University of Virginia, Graduate Fellowship Distinguished Resident Award, Neurology, Medical College of Virginia, Virginia Commonwealth University |
| 1992 2009-2010 2013 | Young Investigator Travel Award, American Epilepsy Society President, American Epilepsy Society Epilepsy Research Recognition Award (Basic Science), American Epilepsy Society |
| 2017 2017 | Swebilius Lecture and Award, Yale University Ambassador Award, International League Against Epilepsy |

PROFESSIONAL AFFILIATIONS

| 1986- | Society for Neuroscience |
|-------|---|
| 1987- | American Epilepsy Society |
| 1990- | American Academy of Neurology |
| 1998- | American Clinical Neurophysiology Society |
| 2006- | American Neurological Association |

EDITORIAL BOARDS

| 1998-2006 Epilepsy Research | |
|---|-----|
| | |
| 2001-2014 Contributing Editor, <i>Epilepsy Currents</i> | |
| 2011-2013 Neurology | |
| 2011-2014 Neurosurgery | |
| 2013-2020 Experimental Neurology (section Editor Epilep | sy) |
| 2016-2019 Annals of Neurology | |

Ad hoc reviewer

| 1993-current | Annals of Neurology, Brain, Brain Research, British Journal of |
|--------------|--|
| | Pharmacology, Epilepsia, Experimental Neurology, European Journal of |
| | Neuroscience, Journal of Neurochemistry, Journal of Neurophysiology, |
| | Journal of Neuroscience, Journal of Physiology, Molecular Brain |

Research, Nature, Nature Neuroscience, Neurobiology of Disease, Neuropharmacology, New England Journal of Medicine, Neuroscience, Neurosurgery, Neurology.

TEACHING ACTIVITIES

University Teaching: University of Michigan

| 1995-1998 1995-1998 | Lectures in basic neurobiology course for the neurology residents Lectures in the teaching course for clinical neurophysiology fellows. Neurobiology of Epilepsy and Sleep |
|---|--|
| Clinical Teaching | |
| 1995-1997 1995-1997 | University of Michigan M3 student ward teaching Clinical Neurology University of Michigan teaching residents and fellows Clinical Neurophysiology |
| University of Virginia: | Classroom Teaching |
| 1999-Now 1999 1999-2006 1999-2005 2004-2012 2005 | Medical Pharmacology: Anti-epileptic drugs lecture Introduction to Clinical Medicine: Neurology Pharmacology: Molecules to systems (Pharm 902) 1 lecture, sedatives Neurophysiology: (Biol 817 and Phys 862 GSAS) 4 lectures Graduate Neurobiology (NESC703) 2 lectures Graduate Physiology (BIMS 832) 2 lectures |
| Clinical Teaching | |
| 1998-1999 1999-2000 | Teaching Epilepsy and Clinical Neurology each Wednesday afternoon: 1 M4 student, 2 residents and 1 fellow Teaching Epilepsy and Clinical Neurology each Wednesday afternoon: 1 |
| 1998- | M4 student, 2 residents and 3 fellows Teaching Epilepsy and Clinical neurophysiology Fellow and resident on epilepsy service, 1-3 months each year. |
| 2000- | Supervising two fellows and a resident in epilepsy clinic one ½ day per week |
| Ph.D. Dissertation su | |
| 2002-2005 2002-2006 | Catherine Croft Swanwick: BDNF regulation of GABAergic synapses. Stacey Ann Trotter (Bass): GABA synapses of the malformed cortex (Co- mentored with Kevin Lee, Neuroscience) |
| 2005-2011 2008-2012 | Matthew Rannals, Homeostatic plasticity at GABergic synapses. Sarah Johnson, Neuronal synchrony during seizures (Co-mentored with Jack Hudson, Chemical Engineering) |
| 2010-2013 | Xin Ren, Neuronal synchrony during Kindling (Co-mentored with Jack Hudson, Chemical Engineering). |
| 2015-2019 2017- | Alexander Ksendzovsky, MD Anastasia Brodovskaya |

2020- Daria Skwarzyńska

Dissertation Committee

1998-1999 Maria Denslow, Neuroscience Graduate Program.

| 2000 2005-2007 | Edmund M. Talley, Neuroscience Graduate Program. Catherine Christian |
|-------------------|---|
| 2005 | Area paper committee, Rachel Hallmark |
| 2006-2009 | Mark Fitzgerald |
| 2007-2008 | Joel Baumgart |
| 2009-2010 | Justyna Pliecka |
| 2010-2012 | Charles Askew |
| 2011-2014 | Deblina De |
| 2014-2016 | James Hounshell |
| 2014-2016 | Eve Privman |
| 2015-2019 | Lise Harbom |
| 2015-2018 | Bryan Barker |
| 2015-2018 | Peter Klein |
| 2016-2020 | Adam Lu |
| 2016- | Kathryn Salvati |

COMMITEES & LEADERSHIP POSTIONS

American Epilepsy Society

| 1998 1998 1997-1999 1998-2001 1998-2002 2000-2002 2002-2004 2003 2004 | Scientific Program Committee Task Force on Epileptogenesis Continuing Medical Education Committee, Investigators Workshop Committee Task force on reorganization of the annual meeting. Chair, Internet CME sub-committee Board of Directors Co-Chair Year round CME committee |
|--|---|
| 2002-2004 2005-2007 | Research and Training Committee |
| 2005-2007 | Chair, Research and Training Committee, and Ex officio member of the Board |
| 2007-2011 | Executive Committee of the Board (Second Vice-President, vice President, President and Past President) |
| 2009-2010 | President |
| 2011-2013 | Nominating Committee |
| 2012-2015 | Chair, International Affairs Committee |
| 2014-2016 | Chair, Development Committee |
| 2012-2019 | Lennox and Lombroso Trust |

International League Against Epilepsy

| 2010 | Member, Therapeutics Commission |
|-----------|------------------------------------|
| 2015- | Member, Education Taskforce |
| 2011-2016 | Member, North American Commission, |

American Neurological Association

| 2009-2012 | Scientific Program Advisory Committee |
|-----------|--|
| 2010-2012 | Continuing Medical Education Committee |
| 2016-2018 | Board of Directors |

Epilepsy Foundation (National)

| 2001-2009 | Professional Advisory Board, Epilepsy Foundation of America |
|-----------|---|
| 2001-2003 | Chair, Research and Clinical Training Fellowship application review |
| | committee. |
| 2006-2009 | Chair, Research Council. |
| 2006-2008 | Executive Committee, Professional Advisory Board. |

Epilepsy Research Foundation

| 2006-2008 | Vice President & Member Board of Directors |
|-----------|--|
| 2008-2010 | President of the Board of Directors |
| 2010-2013 | Board of Directors |

Citizens United against Epilepsy (CURE- Epilepsy Foundation)

2016-2018 Scientific Advisory Board

National Institutes of Health

| 1997 | Ad Hoc Member, Brain Disorders and Clinical Neurosciences Initial review Groups, ZRG1-BDCN1, National Institutes of Health (NIH). |
|-----------|---|
| 2001 | Ad Hoc Member Fellowship Review Panel, Center for scientific review. |
| 2001 | Ad Hoc Member SSS-P Special Emphasis Panel, Cellular and Developmental Neurosciences, Integrated Review Group, Center for |
| | Scientific Review |
| 2002 | Ad Hoc Member Brain Disorders and Clinical Neurosciences Initial Review Group, BDCN1, Center for Scientific Review. |
| 2002 | Ad Hoc Member Brain Disorders and Clinical Neurosciences Initial Review Group, BDCN2, Center for Scientific Review. |
| 2002 | Ad Hoc Member Training Grant & Career Development Review Committee, Scientific Review Branch, NINDS, |
| 2003 | Ad Hoc Member Brain Disorders and Clinical Neurosciences Initial Review Group, BDCN2. |
| 2004 | Ad Hoc member Clinical Neurosciences and Disease study section, Center for Scientific review. |
| 2004-2008 | Permanent member Clinical Neurosciences and Disease study section, Center for Scientific review |
| 2005-6 | Ad hoc member, Epidemiology of Clinical Disorders and Aging review panel, CSR |
| 2006-2008 | CounterACT proposal Review panel NINDS |
| 2009 | Special Emphasis panel for challenge grants, member conflict review panel, R25 review panel. |
| 2010-2016 | Special emphasis panels, Member conflict reviews, etc. NIH CSR. |
| 2016-2022 | Member, Clinical Neuroplasticity and Neurotransmitters Study Section, NIH CSR. |

Tuberous Sclerosis Alliance

2005 Grant review board

Medical College of Virginia

1991-1992 House staff Council

1992 Internal Review Committee: Department of Psychiatry, Residency Program, Medical College of Virginia.

University of Michigan

| 1995-1998 | Faculty Recruitment Committee, Department of Neurolog | ١v |
|-----------|---|----|
| 1333-1330 | racing recontinent committee, Department of recipion | JY |

University of Virginia

| 2001-2008 2004-2007 2007 2008 2008-2012 2012-2015 2012-2015 2014-2016 | Continuing Medical Education Committee, School of Medicine Research Advisory Committee, School of Medicine Pharmacology Chair Search Committee, School of Medicine Internal grant review committee, Office of Vice President of Research Promotions and Tenure Committee, School of Medicine Clinical Strategies Group, Medical Center and School of Medicine. Clinical Research Oversight Committee, Medical Center and School of Medicine Provost's University Promotions and Tenure Committee |
|--|--|
| CONSULTANT | |
| 2001-2005 | US Army Medical Research and Materials Command: Advanced Anticonvulsant System focus group, Material Expert. |
| 2009 | Program Advisory Committee (PAC) for Specialized Neuroscience Research Program (SNRP), Universidad Central del Caribe, San Juan, PR |
| 2012 | Neurotherapeutics Pharma, GABA advisory group |

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|------|------------------------|--------------|------------------------|
| 2015 | Eisai Pharmaceuticals: | Role of AMPA | receptors in epilepsy. |

INTELLECTUAL PROPERTY

 2013 Anti GABA-A receptor γ2 and δ subunit mouse monoclonal antibody, Commercialized by UVA patent group.
2015 IND 119756: Food and Drug Administration (FDA) ESETT "A multicenter, randomized, blinded, comparative effectiveness study of fosphenytoin, valproic acid, or levetiracetam in the emergency department treatment of patients with benzodiazepine-refractory status epilepticus".

GRANT SUPPORT

Principal investigator (Current)

 2014-2021 NIH-NINDS, U01NS088034 "Established Status Epilepticus Treatment Trial (ESETT)" Contact PI, Multiple PIs: with Drs. Robert Silbergleit and James Chamberlain.
2000-2021 NIH-NINDS, RO1 NS040337 "Treatment of status epilepticus".

Co-Investigator

2017-2019 ESETT pharmacokinetics and Pharmaco-dynamics study

| | Principal Investigator Lisa Coles, PhD University of Minnesota NIH RO1 0.36 Calendar Month. |
|-------------------|--|
| 2019 –2023 | The integrated Translational Health Research Institute of Virginia (iTHRIV): Using data to improve health Role: Network Capacity Core as the Project Co-Lead (1.2 Calendar Months) UL1 PIs: Karen C. Johnston, MD & Donald E. Brown, PhD Funding Agency: NIH/NCATS. |
| Previous | |
| 1993-1994 | Lennox Fellowship, American Epilepsy Society |
| 1994 1994-1999 | National Epifellows Foundation Career Investigator Development Award, NIH, KO8-NS01748, |
| 1994-1999 | "Heterogeneity of CNS GABA _A receptors" |
| 1996-1997 | Epilepsy Foundation of America: "Progression of status epilepticus" |
| 1998-2003 | NIH, Independent Scientist Award, KO2-NS 02081 "Understanding status epilepticus". |
| 2002-2004 | Independent Investigator Award, National Alliance for Research into |
| | Schizophrenia and Depression, "Mechanism of Action of Pregnenolone Sulfate" |
| 2009-2010 | Ivy foundation (intramural), with Prof. Jack Hudson "Deep brain |
| 2006-2011 | stimulation for epilepsy with dynamic feedback". NIH-NINDS UO1 NS58204 "Mechanism and treatment of nerve-agent |
| 2000-2011 | induced seizures. |
| 2010-2013 | PR093963 Department of Defense, Congressionally Directed Medical |
| | Research Program (CDMRP) Peer-reviewed Program "M current-based |
| 2009-2014 | therapies for nerve agent seizures" 2009-2014 NIH-NINDS R25NS065733 Multiple PI mechanism, CO PI |
| 2003-2014 | with Karen Johnston, MD "NINDS Research Education Program for |
| | Residents and Fellows at the University of Virginia". |
| 2011-2013 | Silencing Hyperactive Neurons as a Treatment for Temporal Lobe |
| | Epilepsy CURE Epilepsy Foundation. Co- Principal Investigators: Ed Perez Reyes & Jaideep Kapur |
| 2012-2013 | Mechanisms of catamenial epilepsy, Epilepsy Foundation. |
| 2003-2018 | NINDS, RO1 NS044370 "Neurosteroid regulation of seizures". Direct |
| 2014-2017 | costs: \$218,750. NIH NINDS 1R01NS091452 Calcium channel and glutamate receptor |
| 2014-2017 | signaling at synapses". PI Julius Zhu Role Co-Investigator, effort 5%. |
| 2016-2018 | NIH NINDS, R21 NS096461 Low Intensity Focused Ultrasound |
| | Neuromodulation" Role: Co-investigator, Principal Investigator: W. |
| 2016-2017 | Jeffrey Elias. NIH NINDS RO1 1R01NS097726 Developing a drug-inducible gene |
| 2010 2011 | therapy for temporal lobe epilepsy" Agency: Role: Co-investigator, |
| | Principal Investigator: Edward Perez-Reyes |
| | |

Support for Trainees:

| 2000-2001 | Epilepsy Foundation of America, Postdoctoral Fellowship, Zakaria |
|-----------|--|
| | Mtchedlishvilli, Ph.D., Research Associate |
| 2002-2005 | NIH, Predoctoral NRSA award, Catherine Croft. |

| 2002-2003 | Epilepsy Foundation of America, Postdoctoral Fellowship, Chengsan Sun, Research Associate. |
|-----------|---|
| 2004-2006 | NIH Predoctoral NRSA award, Stacey Trotter Co-mentor with Kevin Lee |
| 2005-2010 | NIH, KO8 Mentored Clinician Investigator Development Award, Howard Goodkin, Assistant Professor of Neurology and Pediatrics |
| 2006-2008 | American Heart Association Grant-in-Aid to Santina Zanelli, Assistant Professor, Pediatrics |
| 2007-2008 | Epilepsy Foundation Postdoctoral Fellowship to Suchitra Joshi Ph.D., Research Associate |
| 2009 | Epilepsy Foundation Postdoctoral Fellowship to Karthik Rajasekharan Ph.D., Research Associate |
| 2010-2015 | NIH, KO8 Mentored Clinician Investigator Development Award, Santina Zanelli, M.D. Assistant Professor of Pediatrics (Neonatology) |
| 2017-2022 | NIH, KO8 Mentored Clinician Investigator Development Award, Jennifer Burnsed, Assistant Professor of Pediatrics (Neonatology) |

CURRENT TRAINEES

Faculty

| 2014 | Dr. Jennifer Burnsed, MD, Assistant Professor Department of Pediatrics |
|------|--|
| 2016 | Dr. Andrew Schomer, Assistant Professor of Neurology |
| 2020 | Dr. Laurie Brenner, Assistant Professor of Neurology |

Postdoctoral fellows

| 2015 | Huayu Sun, PhD |
|------|--------------------|
| 2018 | Aijaz Naik, PhD |
| 2019 | Nadia Adotevi, PhD |

Graduate students:

2017 Anastasia Brodovskaya

PREVIOUS TRAINEES

| 1999-2006 | Zakaria Mtchdlishvilli, Ph.D Current Position: Assistant Professor Center for Neuroscience Research Allegheny-Singer Research Institute |
|-----------|---|
| 2002-2005 | Catherine Croft Swanwick, Graduate student, Current position Science Writer |
| 2002-2007 | Howard Goodkin, M.D., Ph.D. current position: Shur Family Professor, Department of Neurology and Pediatrics, University of Virginia |
| 2001-2008 | Chengsan Sun, Ph.D. Current position, Instructor, Dept of Psychology, University of Virginia |
| 2004-2007 | Stacey Trotter Co-mentored with Prof. Kevin Lee, Neuroradiology fellow Johns Hopkins |
| 2006-2009 | Maksim Kozhemyakin, Ph.D., Assistant Professor Department of Neuroscience, University of Central Caribbean, Puerto Rico. |
| 2006-2010 | Matthew Rannals, Neuroscience Graduate Program. Next Position: Postdoctoral fellow, Johns Hopkins University |

| | Sarah Johnson, Chemical Engineering Co-mentored with Prof. Jack Hudson, Currently Postdoctoral Fellow, University of Nebraska. |
|-----------|---|
| | Hudson, Currently Fostdoctoral Fellow, Oniversity of Nebraska. |
| 2009-2013 | Xin Ren, Chemical Engineering, Co mentored with Prof. Jack Hudson |
| | GE capital One |
| 2006-2018 | Suchitra Joshi, Ph.D. Research Assistant Professor |

BIBLIOGRAPHY

Peer Reviewed Publications:

- Kapur J, Stringer JL, and Lothman EW, Evidence that repetitive seizures in the hippocampus cause a lasting reduction of GABAergic inhibition. Journal of Neurophysiology, (1989) 61:417-426.
- Kapur J, and Lothman EW, Loss of recurrent inhibition precedes delayed spontaneous seizures in the hippocampus after tetanic electric stimulation. Journal of Neurophysiology, (1989) 61: 427-434.
- 3) Michelson HB, Kapur J and Lothman E W, Reduction of paired pulse inhibition in the CA1 region of the hippocampus by pilocarpine in naive and in amygdala-kindled animals. Experimental Neurology, (1989) 104: 264-271.
- Kapur J, Michelson H B, Butterbaugh GG and Lothman EW, Evidence for a chronic loss of inhibition in the hippocampus after kindling: Electrophysiologic studies. Epilepsy Research, (1989) 4: 90-99.
- Kapur J, Bennett Jr., JP, Wooten, GF and Lothman, EW Evidence for a chronic loss of inhibition in the hippocampus after kindling: Biochemical studies. Epilepsy Research, (1989) 4:100-108.
- 6) Kapur J, and Lothman EW, NMDA receptor activation mediates the loss of GABAergic inhibition induced by recurrent seizures. Epilepsy Research, (1990) 5: 103-111.
- Lothman EW, Bertram EH, Kapur J and Stringer JL, Recurrent spontaneous hippocampal seizures in the rat as a chronic sequela to limbic status epilepticus. Epilepsy Research, (1990) 6:110-118.
- 8) Kapur J, Lothman EW and DeLorenzo RJ, Loss of GABA_A receptors during partial status epilepticus. Neurology, (1994) 44: 2407-2408.
- 9) Kapur J, Pillai A, and Henry TA, Psychogenic elaboration of simple partial seizures. Epilepsia, (1995) 36: 1126-1130.
- 10) Kapur J and Coulter DA, Experimental status epilepticus alters GABA_A receptor function in CA1 pyramidal neurons. Annals of Neurology, (1995) 38: 893-900.
- Kapur J and Macdonald RL, Pharmacological properties of γ-aminobutyric acid type_A receptors in acutely dissociated rat dentate granule cells. Molecular Pharmacology, (1996) 50: 458-466.
- 12) Kapur J and Macdonald RL, Cyclic AMP-dependent protein kinase enhances hippocampal dentate granule cell GABA_A receptor currents. Journal of Neurophysiology, (1996) 76: 2626-2634.
- Kapur J and Macdonald RL, Rapid seizure-induced reduction of benzodiazepine and ZN⁺⁺ sensitivity of hippocampal dentate granule cell GABA_A receptors. Journal of Neuroscience, (1997) 17: 7532-7540.
- 14) Kapur J and Macdonald RL, Postnatal development of hippocampal dentate granule cell GABA_A receptor pharmacological properties. Molecular Pharmacology, (1999) 55:444-452.
- 15) Tietz EI, Kapur J and Macdonald RL Functional GABA_A receptor heterogeneity of acutely dissociated hippocampal CA1 pyramidal cells. Journal of Neurophysiology, (1999) 81:1575-1586.

- 16) Kapur J, Haas KF and Macdonald RL Physiological properties of γ-aminobutyric acid_A receptors from acutely dissociated rat dentate granule cells. Journal of Neurophysiology, (1999) 81:2464-2471.
- 17) Drury I, Selwa L M, Kapur J, Varma N, Beydoun A and Henry TR, Value of inpatient diagnostic CCTV-EEG monitoring in the elderly. Epilepsia (1999) 40:1100-1102
- 18) Macdonald R L and Kapur J Acute cellular alterations in the hippocampus after status epilepticus. Epilepsia (1999) 40 (Suppl. 1); S9-S20.
- 19) Jaitly R, Dhaduk N, Jensen M E, Naeem M and Kapur J, Primary Cerebral Mucormycosis: A case report and literature review. The Neurologist (2000) 6:232-237.
- 20) Borris DJ, Bertram EH and Kapur J, Ketamine controls prolonged status epilepticus. Epilepsy Research (2000) 42:117-122.
- 21) Kearney JA, Plummer NW, Smith MR, Kapur J, Cummins TR, Waxman SG, Goldin AL, and Meisler MH, A gain-of-function mutation in the sodium channel gene Scn2a results in seizures and behavioral abnormalities. Neuroscience (2001) 102: 307-317.
- 22) Mtchedlishvili Z, Bertram EH and Kapur J, Diminished allopregnanolone enhancement of GABA_A receptor currents a rat model of chronic temporal lobe epilepsy. Journal of Physiology (2001) 537: 453-465.
- 23) Kelly K M, Kharlamov A, Hentosz TM, Kharlamova EA, Williamson JM, Bertram E H, Kapur J and Armstrong D M, Photothrombotic brain infarction results in seizure activity in aging Fischer 344 and Sprague Dawley rat. Epilepsy Research (2001) 47: 189-203.
- 24) Mtchedlishvili Z, Harrison MB and Kapur J Increased neurosteroid sensitivity of hippocampal GABA_A receptors during postnatal development. Neuroscience, (2003) 118:655-666.
- 25) Choudhury-Mukherjee I.; Schenck HA; Cechova S; Pajewski TN; Kapur J; Ellena J; Cafiso DS; Brown ML Design, synthesis, and evaluation of analogues of 3,3,3-trifluoro-2-hydroxy-2-phenyl-propionamide as orally available general anesthetics. Journal of Medicinal Chemistry (2003) 46:2494-2501.
- 26) Mtchedlishvili Z and Kapur J, A presynaptic action of the neurosteroid pregnenolone sulfate on GABAergic synaptic transmission. Molecular Pharmacology (2003) 64:857-864.
- 27) Mangan PS and Kapur J, Factors underlying bursting behavior in a network of cultured hippocampal neurons exposed to zero magnesium. Journal of Neurophysiology (2004) 91: 946-957.
- 28) Williamson J, Mtchedlishvili Z and Kapur J, Characterization of the convulsant action of pregnenolone sulfate. Neuropharmacology, (2004) 46: 856-864.
- 29) Yen W, Williamson J, Bertram EH and Kapur J A comparison of 3 NMDA receptor antagonists in the treatment of prolonged status epilepticus. Epilepsy Research (2004) 59: 43-50.
- 30) Swanwick CC, Harrison MB and Kapur J, Synaptic and extrasynaptic localization of brainderived neurotrophic factor and the tyrosine kinase B receptor in cultured hippocampal neurons. Journal of Comparative Neurology (2004) 478:405-417.
- 31) Sun C, Sieghart W and Kapur J, Distribution of α 1, α 4, γ 2, and δ subunits of GABA_A receptors in hippocampal granule cells. Brain Research (2004), 1029 (2): 207-216.

- 32) Mangan PS^{*}, Sun^{*}C, Carpenter M, Goodkin HP, Sieghart W and Kapur J Cultured hippocampal pyramidal neurons express two kinds of GABA_A receptors. Molecular Pharmacology (2005) 67: 775-788.
- 33) Goodkin HP, Yeh J-L, and Kapur J Status epilepticus increases the intracellular accumulation of GABA_A receptors. Journal of Neuroscience (2005) 25: 5511-5520.
- 34) Mtchedlishvili Z and Kapur J High affinity slowly desensitizing GABA_A receptors mediate tonic inhibition in dentate granule cells. Molecular Pharmacology (2006) 69: 564-575.
- 35) Swanwick CC, Murthy NR; Mtchedlishvili Z; Sieghart W and Kapur, J Development of GABAergic synapses in cultured hippocampal neurons. Journal of Comparative Neurology (2006) 495:497-510.
- 36) Swanwick CC, Murthy NR, and Kapur J Activity-dependent scaling of GABAergic synapse strength is regulated by brain-derived neurotrophic factor. Molecular and Cellular Neuroscience (2006) 31: 481-92.
- 37) Trotter SA, Kapur J, Anzivino MJ and Lee KS GABAergic Synaptic inhibition is reduced prior to seizure onset in a genetic model of cortical malformation. Journal of Neuroscience (2006) 26: 10756-67.
- 38) Sun C, Mtchedlishvili, Z; Bertram E, Erisir A and Kapur J Selective loss of dentate hilar interneurons contributes to reduced synaptic inhibition of granule cells in an electrical stimulation-based animal model of temporal lobe epilepsy. Journal of Comparative Neurology (2007) 500: 876-93.
- 39) Jones PJ, Wang Y, Smith MD, Hargus NJ, Eidam HS, White HS, Kapur J, Brown ML and Patel MK Hydroxyamide analogs of propofol exhibit state-dependent block of sodium channels in hippocampal neurons: implications for anticonvulsant activity. Journal of Pharmacology and Experimental Therapeutics (2007) 320:828-36.
- 40) Sun C, Mtchedlishvilli Z, Erisir A and Kapur J Diminished neurosteroid sensitivity of synaptic inhibition and altered location of the α 4 subunit of GABA-A receptors in an animal model of epilepsy. Journal of Neuroscience (2007) 27: 12641-12650.
- 41) Rajasekaran K, Kapur J and Bertram EH Alterations in GABA-A receptor mediated inhibition in adjacent dorsal midline thalamic nuclei in a rat model of chronic limbic epilepsy. Journal of Neurophysiology (2007) 98:2501-2508.
- 42) Martin BS and Kapur J A combination of ketamine and diazepam synergistically controls refractory status epilepticus induced by cholinergic stimulation. Epilepsia (2008) 49: 248-255.
- 43) Goodkin HP, Joshi S, Mtchedlishvili Z, Brar J, and Kapur J Subunit-specific trafficking of GABA_A Receptors during status epilepticus. Journal of Neuroscience (2008) 28: 2527-2538.
- 44) Joshi S, and Kapur J. Slow intracellular accumulation of GABA_A receptor δ subunit is modulated by BDNF. Neuroscience (2009) 164:507-19.
- 45) Zanelli S, Naylor M and Kapur J. Nitric Oxide alters GABAergic synaptic transmission in cultured hippocampal neurons. Brain Research (2009) 1297:23-31.
- 46) Chen X, Shu S, Schwartz L, Sun C, Kapur J and Bayliss D Homeostatic regulation of synaptic excitability: tonic GABA-A receptor currents replace Ih in cortical pyramidal neurons of HCN1 knockout mice. Journal of Neuroscience (2010) 30: 2611-22.

- 47) Kozhemyakin M, Rajasekharan K and Kapur J Cholinesterase inhibition enhances glutamatergic synaptic transmission. Journal of Neurophysiology (2010) 103: 1748-1757.
- 48) Lawrence C, Martin BS, Sun C, Williamson J and Kapur J Endogenous neurosteroid synthesis modulates seizure frequency. Annals of Neurology (2010) 67: 689-693.
- 49) Rajasekaran K, Joshi S, Sun C, Mtchedlishvili Z and Kapur J Receptors with low affinity for neurosteroids and GABA contribute to tonic inhibition of granule cells in epileptic animals. Neurobiology of Disease (2010) 40:490-501.
- 50) Du G, Chen X, Todorovic MS, Shu S, Kapur J, Bayliss DA TASK channel deletion reduces sensitivity to local anesthetic-induced seizures. Anesthesiology (2011) 115:1003-1011.
- 51) Joshi S, Sun C and Kapur J Generation and characterization of a mouse monoclonal antibody against the γ 2 subunit of GABA-A receptors. Hybridoma (2011) 30:537-42.
- 52) Rannals M and Kapur J, Homeostatic strengthening of inhibitory synapses is mediated by the accumulation of GAB-A receptors. Journal of Neuroscience (2011) 31: 701-12.
- 53) Rusin CG, Johnson SE, Kapur J and Hudson J. Engineering the synchronization of neuron action potentials using global time-delayed feedback stimulation. Physical Review E (2011). 84: 066202.
- 54) Rajasekaran K, Todorovic M, Kapur J. Calcium-permeable AMPA receptors are expressed in a rodent model of status epilepticus. Annals of Neurology (2012) 72: 91-102.
- 55) Todorovic M, Cowan ML, Balint C and Kapur J Characterization of status epilepticus induced by two organophosphates. Epilepsy Research (2012) 101:268-76.
- 56) Sun J and Kapur J M-type potassium channels modulate Schaffer collateral CA1 glutamatergic synaptic transmission. Journal of Physiology (2012) 590:3953-64.
- 57) Kozhemyakin M, Rajasekaran K, Todorovic M, Kowalski S, Balint C and Kapur J Somatostatin type II receptor activation inhibits glutamate release and prevents status epilepticus. Neurobiology of Disease (2013) 54:94-104.
- 58) Joshi S and Kapur J NMDA receptor activation down-regulates expression of the δ subunitcontaining GABA_A receptors in cultured hippocampal neurons. Molecular Pharmacology (2013) 84:1-11.
- 59) Joshi S Keith KJ, Ilyas A and Kapur J GABA-A receptor membrane insertion rates are specified by their subunit composition. Cellular and Molecular Neuroscience (2013) 56C:201-211
- 60) Sun C, Sun J, Erisir A and Kapur J Loss of cholecystokinin-containing terminals in temporal lobe epilepsy. Neurobiology of Disease (2014) 62:44-55.
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- Kapur J Status epilepticus in epileptogenesis. Current Opinion in Neurology (1999) 12:191-195.
- 3) Macdonald RL and Kapur J Pharmacological properties of recombinant and hippocampal dentate granule cell GABAA receptors. Advances in Neurology (1999)79:979-90.
- 4) Kapur J Hippocampal neurons express GABAA receptors insensitive to diazepam in hyperexcitable conditions. Epilepsia; (2000) 41: S86-S89.
- 5) Kapur J Prehospital treatment of status epilepticus with benzodiazepines is effective and safe. Epilepsy Currents (2002) 2: 121-4.
- 6) Kapur J Sodium channel mutations in GEFS+ produce persistent inward current. Epilepsy Currents (2002) 2: 149-150.
- 7) Goodkin HP and Kapur J Responsiveness of status epilepticus to treatment with diazepam decreases rapidly as seizure duration increases Epilepsy Currents (2002) 3: 11-12.
- 8) Kapur J Role of Neuronal loss in the pathogenesis of recurrent spontaneous seizures. Epilepsy Currents (2003) 3: 166-167.
- 9) Kapur J Role of GABAA receptors in the pathogenesis of generalized epilepsies. Experimental Neurology, (2003) 184: 1-2.
- 10) Kapur J Dormant basket cell hypothesis revisited......again. Epilepsy Currents (2003) 3: 225-226.
- 11) Swanwick CC, and Kapur J Role of Brain-Derived Neurotrophic Factor in Catamenial Epilepsy Epilepsy Currents (2004) 4: 154-155.
- 12) Swanwick CC, and Kapur J Is the tyrosine kinase B receptor a target for preventing epilepsy? (2005) Epilepsy currents 5:7-10.
- 13) Kapur J and Trotter S Homeostatic plasticity hypothesis and mechanisms of neocortical epilepsies. Epilepsy Currents (2005) 5:133-135.
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- 15) Kapur J Is mesial temporal sclerosis a necessary component of temporal lobe epilepsy? Epilepsy Currents (2006) 6: 1-2.
- 16) Kapur J Is epilepsy a disease of synaptic transmission. Epilepsy Currents (2008) 8: 139-141.
- 17) Goodkin HP, Sun C, Yeh J, Mangan P and Kapur J GABA(A) receptor internalization during seizures. Epilepsia (2007) 48 (Supplement 5): 109-113.
- 18) Goodkin HP and J Kapur The impact of diazepam's discovery on the treatment and understanding of status epilepticus Epilepsia. (2009) 50:2011-8.
- 19) Kapur J Galanin Receptors Modulate Seizures. Epilepsy Currents (2011) 11: 125–127.
- 20) Joshi S, Rajasekaran K, Kapur J. GABAergic transmission in temporal lobe epilepsy: The role of neurosteroids. Exp Neurol. 2011 Nov 4. [Epub ahead ofprint].
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- 22) Berkovic SF, Kapur J Are myotonia and epilepsy linked by a chloride channel? Neurology 2013 80:1074-5.
- 23) Bleck T, Cock H, Chamberlain J, Cloyd J, Connor J, Elm J, Fountain N, Jones E, Lowenstein D, Shinnar S, Silbergleit R, Treiman D, Trinka E, Kapur J. The established status epilepticus trial 2013. Epilepsia. (2013) 6:89-92.
- 24) Rajasekaran K, Joshi S, Kozhemyakin M, Todorovic MS, Kowalski S, Balint C,Kapur J. Receptor trafficking hypothesis revisited: Plasticity of AMPA receptors during established status epilepticus. Epilepsia. (2013) 54 Suppl 6:14-6.
- 25) Pitkänen A, Nehlig A, Brooks-Kayal AR, Dudek FE, Friedman D, Galanopoulou AS, Jensen FE, Kaminski RM, Kapur J, Klitgaard H, Löscher W, Mody I, Schmidt D. Issues related to development of antiepileptogenic therapies. Epilepsia. 2013 Aug;54 Suppl 4:35-43.
- 26) Schomer AC, Kapur J. The SAMUKeppra study in prehospital status epilepticus: lessons for future study. Ann Transl Med. 2016 4:468
- 27) Dworetzky BA, Kapur J. Gaining perspective on SUDEP: The new guideline. Neurology. 2017 88:1598-1599.
- 28) Wychowski T, Kapur J. Isocitrate dehydrogenase mutations: A biomarker for glioma-related excitability and seizures. Neurology. (2017) 88:1782-1783.
- 29) Joshi S, Kapur J. Neurosteroid regulation of GABA(A) receptors: A role in catamenial epilepsy. Brain Res. 2019 Jan 15;1703:31-40..
- 30) Kapur J. Role of NMDA receptors in the pathophysiology and treatment of status epilepticus. Epilepsia Open. 2018 Nov 2;3(Suppl 2):165-168.
- 31) Wykes RC, Khoo HM, Caciagli L, Blumenfeld H, Golshani P, Kapur J, Stern JM, Bernasconi A, Dedeurwaerdere S, Bernasconi N. WONOEP appraisal: Network concept from an imaging perspective. Epilepsia. 2019 60:1293-1305
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Book Chapters

- 1) Kapur J, Macdonald R L Status Epilepticus: A Proposed Pathophysiology, in Treatment of Epilepsy (1995) Ch 18:258-268 Editors Shorvon, Fish, Dreifuss, Thomas.
- Quigg M, Bertram EH and Kapur J An unusual application of epilepsy surgery. In 110 Puzzling Cases of Epilepsy. (2002) Editors Schmidt D and Schachter SC Case 65: page 250-253.
- Mtchedlishvili Z and Kapur J Role of neurosteroids in epilepsy in *Neurosteroid Effects in the Central Nervous System: The Role of the GABA-A Receptor*, (2003) Chapter 14, 305-315 Editor Smith SS, CRC press.
- Kapur J and Bertram E. Drug resistance in epilepsy and status epilepticus. *Epilepsy:* Scientific Foundations of Clinical Practice. (2003) Chapter 3, 21-40 Editors, Rho JM, Sankar R, Cavazos J, Marcel Dekker, New York, NY
- 5) Kapur J Pathophysiolgy of Status Epilepticus. *Nonconvulsive Status Epilepticus* (2009) Chapter 7, 81-94 Editors, Peter W Kaplan, Frank W Drislane Demos medical Publishing.
- 6) Rajasekaran K, Mtchedlishvili Z, Sun C, and Kapur J Neurosteroid Modulation of GABAA Receptor-Mediated Synaptic Transmission in an Animal Model of Temporal Lobe Epilepsy In: Philip A. Schwartzkroin, editor Encyclopedia of Basic Epilepsy Research, Vol 1. Oxford: Academic Press; 2009. pp. 513-519.
- Kapur J Pathophysiology of Status Epilepticus. In: Philip A. Schwartzkroin editor Encyclopedia of Basic Epilepsy Research, Vol. 1. Oxford: AcademicPress; 2009. pp. 304-308.
- Trotter S A, Fitzgerald M P, Kapur J and Lee K S The Tish Rat: An Animal Model of Cortical Malformation in the Study of Epilepsy. In: Philip A.Schwartzkroin, editor Encyclopedia of Basic Epilepsy Research, Vol. 1. Oxford: Academic Press; 2009. pp. 214-219.
- GABA_A Receptor Plasticity During Status Epilepticus. Joshi S, Kapur J. (2012) In: Noebels JL, Avoli M, Rogawski MA, Olsen RW, Delgado-Escueta AV, editors. Jasper's Basic Mechanisms of the Epilepsies [Internet]. 4th edition.

INVITED LECTURES AND SYMPOSIA

National & International

- 1996 Regional Meritt Putnam Symposium: "Basic Mechanisms of Status Epilepticus" Boston, Massachusetts
- 1996-2001 30-35th_Annual Meeting of the American Clinical Neurophysiology Society, Basic Neurophysiology Course, "Pathophysiology of Epilepsy"
- 1996 First International Conference on Epilepsy: Advances in Understanding and Therapeutic Development, "Pharmacology of Hippocampal Dentate Granule Cell GABA_A Receptors", Orlando, Florida.

| 1997 | 32 nd Annual meeting of the American Epilepsy Society: Investigators' workshop, "Role of zinc in temporal lobe epilepsy". |
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| 1998 | Annual meeting of the American Epilepsy Society: Moderator for platform session: status epilepticus. |
| 1998 | Fifth Workshop on Neurobiology of Epilepsy, Cesky Krumlov, Czech Republic |
| 1999 | Joint seminar, Neuroscience Program, and Department of Neurology, Medical College of Ohio, Toledo, OH"GABA _A receptor plasticity in temporal lobe epilepsy" |
| 1999 | Grand Rounds, Department of Neurology, Georgetown University, Washington DC "Status Epilepticus" |
| 2000 | Grand Rounds, Department of Neurology, Henry Ford Hospital, Detroit, MI "Status Epilepticus" |
| 2001 | Sixth Workshop on Neurobiology of Epilepsy, Iguazu Falls, Brazil |
| 2001 | "Ion channels in pathogenesis and treatment of epilepsy" KM Welch Lecture, Henry Ford Hospital, Dearborn, MI |
| 2003 | Epicenter, University of California, Irvine, CA, "Role of GABA-mediated inhibition in status epilepticus". |
| 2003 | Grand Rounds, Department of Neurology, University of California, Irvine, CA, "Status epilepticus". |
| 2003 | Grand Rounds, Department of Neurology, Vanderbilt University, Nashville, TN. |
| 2003 | Grand Rounds, Department of Neurology, Emory University, Atlanta, GA |
| 2003 | Epilepsy Research Seminar, Children's hospital of Pennsylvania, University of Pennsylvania, Philadelphia, PA |
| 2004 | "Epilepsy in children: neurobiological, clinical and therapeutic approach" |
| | International League Against Epilepsy Summer Course, Venice International University, San Servolo, Venice, Italy. |
| 2005 | Eighth Workshop on Neurobiology of Epilepsy, Villiers-le-Mahieu, France |
| 2005 | Annual Meeting of the American Epilepsy Society, Washington D.C. Hot Topics Symposium: Mechanisms of Drug Resistance, |
| 2005 | Investigator's Workshop: Animal Models of Catamenial Epilepsy, Annual Meeting of the American Epilepsy Society, Washington D.C. |
| 2006 | Grand rounds, Department of Neurosurgery, Cleveland Clinic Foundation, Cleveland OH |
| 2006 | Grand rounds, Epilepsy section, Department of Neurology, Cleveland Clinic Foundation, Cleveland OH |
| 2006 | Symposium "AEDs: Translating Recent Data Into Clinical Applications" New York University, New York, NY. |
| 2006 | 34 th Annual Hans Berger symposium, Virginia Commonwealth University, Richmond, VA. |
| 2006 | Gordon research Conference, Mechanisms of Epilepsy & Neuronal Synchronization Colby College Waterville, ME |
| 2006 | Current Trends in Epilepsy: An international symposium, New Delhi, India. |
| 2007 | 1st London Colloquium on Status Epilepticus: Receptor mechanisms in status epilepticus. |
| 2007 | 1st Annual CounterACT Network Research Symposium, NIH: Mechanisms and treatment of nerve agent induced seizures. |
| 2008 | Grand Rounds, Allegheny General Hospital, "Status Epilepticus" |
| 2008 | 2nd Annual CounterACT Network Research Symposium, NIH |
| 2008 | 2 nd Center for Integrative Neuroscience and Neuroengineering Research (CINNR) Epilepsy Conference, Epilepsy Synchronizing research, Chicago, IL |
| 2008 | Biomedical Science Seminar series, Univ. of South Carolina School of Medicine, Columbia, SC "Seizures and Plasticity of GABA _A receptors" |

| 2008 2008 | "GABA _A receptor trafficking in temporal lobe epilepsy", Gordon Research Conference on "Mechanisms of Epilepsy and Neuronal Synchronization". fMRI versus Wada test: debate Annual meeting of the Indian Epilepsy Society, New Delhi, India |
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| 2009 | Grand Rounds, Department of Neurology, Albert Einstein College of Medicine, "Are seizures predictable? A biological approach to the problem" |
| 2009 | Merritt-Putnam symposium, International Epilepsy Congress of the International League Against Epilepsy, Budapest, Hungary "Acute molecular and functional changes in neurotransmission during early status epilepticus". |
| 2009 | Mechanism-based therapy of status epilepticus, Workshop on Neurobiology of Epilepsy, Pecs, Hungary |
| 2009- | Annual Meeting of the American Neurological Association, Baltimore MD, "Mentoring Clinician Investigators" |
| 2009 2010 | Synaptic Inhibition in Health and Disease, Satellite symposium to Annual meeting of Society for Neuroscience, Chicago, "GABA-A receptor trafficking in Epilepsy". Status Epilepticus and Management of Seizures in the ICU, Epilepsy Update, |
| 2010 | Mumbai, India Co-Morbidities in Epilepsy: Current Issues in Management, Epilepsy Update, Mumbai, India |
| 2010 | Are Seizures Predictable? Answers from Clinical Neurophysiology and Biology. Hans Berger Lecture: 38 th Annual Hans Berger Symposium, Virginia Commonwealth University. |
| 2010 | Can Deep Brain Stimulation Treat Seizures? 38 th Annual Hans Berger Symposium, Virginia Commonwealth University. |
| 2010- | Annual Meeting of the American Neurological Association, Baltimore MD, "Transition from K award to RO1" |
| 2011 2011 | Virginia Neurological Society, Annual Meeting, "Status Epilepticus". Clinical Grand Rounds, National Institute of Neurological Diseases and Stroke (NINDS) "Mechanism based Therapy of Status Epilepticus" |
| 2011 | Teaching Session, International Epilepsy Congress, Rome, "Plasticity of ion channels and receptors during epileptogenesis". |
| 2009-2011 | Becoming an Independent RO1 Funded Investigator: Strategies for Success from Basic Science to Clinical Trials: NINDS career development symposium at the annual meeting of American Neurological Association. |
| 2011 | Annual meeting of the American Epilepsy Society, Presidential Symposium: Opportunities From Shifting Research Paradigms |
| 2011 | Annual meeting of the American Epilepsy Society: Neuroscience Special Interest Group: Homeostatic plasticity in epilepsy. |
| 2011 | Annual meeting of the American Epilepsy Society: Professional development opportunities at AES. |
| 2012 | Grand Rounds, Department of Neurology, Johns Hopkins University, Baltimore, MD, "Status epilepticus" |
| 2012 | American Academy of Neurology, Annual meeting: Epilepsy Integrated Neuroscience: Recent Advances in Basic Science with Clinical Relevance. |
| 2012 | Grand Rounds, Department of Neurology, Mayo Clinic, Rochester, MN "Established Status Epilepticus Treatment Trial" |
| 2012 | Judith Hoyer Lecture, American Epilepsy Society, Annual meeting, San Diego, CA. |
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- 2012 Annual meeting of the Mexican Chapter of International League Against Epilepsy, Durango City Mexico "GABA systems and epilepsy: Basic and Clinical aspects"
- 2013 Grand Rounds, Neurology, Wayne State University, Detroit, MI.
- 2013 4th London-Innsbruck Colloquium on status epilepticus and acute seizures, Salzburg, Austria "Receptor trafficking hypothesis – revisited" and "Established Status Epilepticus Trial".
- 2014 Grand rounds, Neurology, University of Michigan, Ann Arbor, MI Mechanisms of Catamenial epilepsy.
- 2015 Annual meeting of the Chilean Chapter of the International League Against Epilepsy, Santiago, Chile, 3 lectures and a workshop on status epilepticus and seizure emergencies.
- 2015 31st International Epilepsy Congress, Istanbul, Turkey, "Basic mechanisms of Status Epilepticus".
- 2015 31st International Epilepsy Congress, Istanbul, Turkey, Organizer "Leadership Training
- 2016 Grand Rounds, University of Kentucky, Lexington, Mechanisms and treatment of status epilepticus.
- 2016 Grand Rounds, George Washington University, Washington, DC, Mechanisms and treatment of status epilepticus.
- 2016 Annual meeting of the American Academy of Neurology (AAN), Vancouver, Canada, "Mechanisms and treatment of status epilepticus", Emergency Neurology session, Moderator Laurie Gutman.
- 2017 Swebilius Lecture and Award, Yale University
- 2017 London-Innsbruck Colloquium on status epilepticus and acute seizures, Salzburg, Austria
- 2017 Grand Rounds, University of Maryland
- 2018 CURE foundation Lecture. University of Colorado, Denver
- 2018 Molecular and Integrative Physiology, University of Illinois, Urbana-Champaign,
- 2018 Center for Translational Neuroscience, Distinguished Lecture Series: University of Arkansas, Little Rock
- 2018 Grand Rounds, Neurology, University of Kansas, Kansas City