Curriculum Vitae

Frances Elizabeth Jensen, MD

PART I: GENERAL INFORMATION

Office Address:	Department of Neurology Hospital of the University of Pennsylvania Dulles 3 3400 Spruce Street Philadelphia, PA 19104
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Email:	frances.jensen@uphs.upenn.edu
Fax:	(215) 662-3362
Place of Birth:	Connecticut, USA
Education/Degrees: 1978	A.B. <i>cum laude</i> and Highest Honors (Neuropsychology) Smith College Northampton, MA
1983	M.D. Cornell University Medical College New York, NY
2007	M.A. Medical Sciences (Honorary) Harvard Medical School Boston, MA

Postdoctoral Training:

Internships and Ro 1983-1984	e sidencies Internship in Internal Medicine Brigham and Women's Hospital
1984-1986	Boston, MA Assistant Resident in Neurology The Harvard Longwood Neurology Training Program
1986-1987	Boston, MA Chief Resident in Neurology The Harvard Longwood Neurology Training Program
Research Training 1976-1980	Boston, MA Research Associate
	University of Massachusetts, Amherst, MA

1981-1983 Research Associate

		Children's Hospital Boston, MA
	1987-1989	Research Fellow Neuroscience Division Children's Hospital Boston, MA
Licens	sure and Certifie	
	1984	National Board of Medical Examiners
	1987	Massachusetts Board of Registration, permanent license
	1988 2012	American Board of Psychiatry and Neurology (Neurology) Pennsylvania Board of Registration, permanent license
Acade	emic Appointme	nts:
	1983-1984	Clinical Fellow in Internal Medicine Harvard Medical School Boston, MA
	1984-1987	Clinical Fallow in Neurology
	1904-1907	Clinical Fellow in Neurology Harvard Medical School
		Boston, MA
	1987-1992	Instructor in Neurology
		Harvard Medical School
		Boston, MA
	1992-1998	
	1992-1998	Assistant Professor of Neurology Harvard Medical School
		Boston, MA
	1993-present	Faculty, Program in Neurobiology
	•	Harvard Medical School
		Boston, MA
	1998-2007	Associate Professor of Neurology
		Harvard Medical School
		Boston, MA
	2007-2012	Professor of Neurology
		Harvard Medical School
		Boston, MA
	2008-2012	Faculty, Biological and Biomedical Sciences Program
	2000 2012	Harvard Medical School
		Boston, MA
	2011-2012	Endowed Neuroscience Research Chair
		Children's Hospital Boston
		Boston, MA
	2012-present	Visiting Professor of Neurology
	Present	

Harvard Medical School Boston, MA

2012-present Professor of Neurology Perelman School of Medicine University of Pennsylvania Philadelphia, PA

Hospital or Affiliated Institution Appointments:

Harvard Medical School and related institutions

1989-1998	Assistant in Neurology Children's Hospital Boston, MA
1987-1993	Assistant in Neurology Brigham and Women's Hospital Boston, MA
1993-2012	Associate in Neurology Brigham and Women's Hospital Boston, MA
1998-2012	Associate in Neurology Children's Hospital Boston, MA
2005-2008	Associate Staff, Pediatrics/Neurology Tufts-New England Medical Center, Floating Hospital Boston, MA
2006-2012 Dire	ector of Epilepsy Research Department of Neurology Children's Hospital Boston, MA
2009- 2012 Dire	ector of Translational Neuroscience Children's Hospital Boston, MA
University of P	ennsylvania/ Perelman School of Medicine
2012_present	Chair Department of Neurology

- 2012-present Chair, Department of Neurology Perelman School of Medicine University of Pennsylvania Philadelphia, PA
- 2012-present Attending in Neurology Perelman School of Medicine University of Pennsylvania Philadelphia, PA

2012-present	Steering Committee Mahoney Institute for Neurosciences University of Pennsylvania Philadelphia, PA
2015-present	Co-director Penn Medicine Translational Neuroscience Center Perelman School of Medicine University of Pennsylvania Philadelphia, PA
2016-present	Member, Neuroscience Steering Committee University of Pennsylvania Philadelphia, PA
-	Care Organization Service Responsibilities:
Harvard Medi 1987-1991	cal School and related institutions Preceptor and Attending
1707-1771	Resident's Outpatient Neurology Clinic (weekly clinics) Brigham and Women's Hospital Boston, MA
1987-1991	Attending Consult and Inpatient Service, Neurology (1 month per year) West Roxbury VA Medical Center West Roxbury, MA

- 1987-2012 Attending Neurology Outpatient Clinic Children's Hospital Boston, MA
- 1987- 2012 Attending Neurology Outpatient Clinic Brigham and Women's Hospital Boston, MA
- 1991-2006 Attending Consult and Ward Service, Neurology Brigham and Women's Hospital Boston, MA
- 1994-1996 Director Cerebrovascular Service, Department of Neurology Brigham and Women's Hospital Boston, MA

University of Pennsylvania/ Perelman School of Medicine

2013-present Preceptor, Resident's Clinic Department of Neurology

	Hospital of the University of Pennsylvania
2013-present	Attending, Neurology inpatient consult service Department of Neurology Hospital of the University of Pennsylvania
2015-present	Co-director Penn Medicine Translational Neuroscience Center Perelman School of Medicine University of Pennsylvania Philadelphia, PA

Major Administrative Responsibilities:

Harvard Medical School and related institutions

1987-1995	Residency Selection Committee Harvard Longwood Neurology Residency Program
1993-1998	Institutional Animal Care and Use Committee Children's Hospital Boston, MA
1993-1994	Member, 1994 Symposia Committee American Epilepsy Society
1994-1997	Member, Standards Committee Department of Neurology Children's Hospital Boston, MA
1995	Co-Director Harvard Medical School Continuing Education Course on Cerebrovascular Disease, 4/95
1996	Director Harvard Medical School Continuing Education Course on Cerebrovascular Disease, 4/96
1996-1998	Organizer, Departmental Weekly Journal Club/Lab Results Seminar, Division of Neuroscience Children's Hospital Boston, MA
1996-2000	Affirmative Action Representative for Faculty Search Committees, Department of Neurology Children's Hospital Boston, MA
1996	Member, New Faculty Search Committee Division of Neuroscience Children's Hospital

	Boston, MA
1997	Director Harvard Medical School Continuing Education Course on Cerebrovascular Disease, 5/97
1997	Member, New Faculty Search Committee Division of Neuroscience Children's Hospital Boston, MA
1998-2012	Member, MD/PhD Mentoring Program Harvard Medical School
1998	Director Harvard Medical School Continuing Education Course on Cerebrovascular Disease, 10/98
2000	Director Harvard Medical School Continuing Education Course on Cerebrovascular Disease, 5/00
2001	Member, New Faculty Search Committee Division of Neurophysiology Children's Hospital Boston, MA
2003-2008	Organizer, Kirby Symposium Program in Neuroscience Children's Hospital Boston, MA
2006- 2009	Scientific Advisory Board Clinical Research Center Children's Hospital, Boston
2006-2012	Director Epilepsy Research Department of Neurology Children's Hospital, Boston
2007	Member, New Faculty Search Committee Division of Neonatology, Pediatrics Children's Hospital, Boston
2008	Member, New Faculty Search Committee Department of Neurology Children's Hospital, Boston
2008	Chair, Search Committee Newborn Imaging Director recruitment Children's Hospital, Boston

2008-2009	Chair, Ad Hoc Promotions Committee
	Harvard Medical School

2009-2012 Director Translational Neuroscience Children's Hospital, Boston

University of Pennsylvania/ Perelman School of Medicine

2012-present	Chair, Department of Neurology Perelman School of Medicine University of Pennsylvania
2012- present	Steering Committee Mahoney Institute for Neurosciences University of Pennsylvania
2012- present	Faculty, Neuroscience Graduate Group Perelman School of Medicine University of Pennsylvania
2015-present	Co-Director, Penn Medicine Translational Neuroscience Center Perelman School of Medicine University of Pennsylvania

Major Committee Assignments:

Hospital of the University of Pennsylvania/Perelman School of Medicine

2012-	CPUP Board of Directors
2012-	Penn Medicine Neuroscience Center, Steering Committee
2013-	CPUP Compensation Committee
2013-	Neurosciences Service Line, Steering Committee
2013-	Dean's Development Leadership Council
2014-	CPUP Executive Board (CPEC)
2015	Member, Search Committee for Psychiatry Chair
2015-	Steering Committee
	Virtua/Penn Medicine Executive Steering Committee
2016-	Member, Managed Care Committee
2016-2017	Member, Internal Review Committee, Department of Obstetrics and Gynecology
	Review
2017-	Member, New Patient Pavilion Planning Steering Committee

Children's Hospital Boston

1993-1996	Standards Committee, Member, Children's Hospital Neurology Foundation
1993-1998	Institutional Animal Care and Use Review Committee, Member
2006-2009	General Clinical Research Center Scientific Advisory Board Member
2006-2007	Intellectual Property Office Development Committee, Member
2008-present	Translational Research Review Committee Member
2010	Chair, Neonatal Neurology Task Force

Federal Drug Administration

- 2009 Advisory Panel Member, Vigabatrin for Infantile Spasms
- 2009 Advisory Panel Member, Vigabatrin for Partial Seizures

Harvard Medical School

- 2008-2009 Neuroscience Strategic Planning Group, HMS Strategic Plan
- 2008-2012 Member CTSA Pilot Grants Section
- 2009-2012 Co-director, Harvard Medical School-Portugal Program
- 2009-2012 Co-Director, Harvard Catalyst Intensive Translational T1 Medicine Course
- 2011-2012 Member, Joint Library Committee, Francis Countway Library
- 2011-2012 Mentor Committee, Clinical Scholar's Program, Harvard Medical School
- 2011-2012 Review Committee, KL2 Mentored Career Award Program, Harvard Catalyst, Harvard Medical School
- 2012-present Member, External Advisory Board, Harvard Catalyst CTSA

Institute of Medicine/National Academy of Medicine

2004	National Academies/IOM U.S. National Committee, International Brain Research
	Organization. Speaker and Chairperson, Instructional Course, The Neurobiology of
	Epilepsy, Rhodes University, Grahamstown, South Africa, 9/04.
2010-2012	Chaired organizing committee for petition and support for the creation of an IOM
	report: "Public Health Dimensions of the Epilepsies" (published 3/29/12)
2011	IOM committee meeting, Invited speaker: "Advances in Epilepsy"
	Institute of Medicine, Committee for IOM Report on Epilepsy
	Washington, DC, 1/11
2011	Public testimony contributor, workshop for Committee for IOM Report on Epilepsy,
	6/11
2012-present	Member, Neuroscience Forum
2013-2014	Working Group Essential Medications in Sub-Saharan Africa, Addis Abbaba,
	Ethiopia, 1/14
2014	Chairperson, IOM Forum Workshop on Neuromodulation and TMS/TDCS
2015	Chairperson, IOM Forum Workshop- Neuroscience Trials of the Future
2015	Member, National Academy of Medicine

National Institutes of Health

1995	Neurological Sciences 2 study section, Ad hoc reviewer, 10/95
1996	Neurology A Study section, Ad hoc reviewer, 2/96
1996-1998	Neurological Sciences 2 Study Section, Regular Member
1998-2001	Brain Disorders and Clinical Neurosciences 2 (BDCN-2) Study Section, Regular Member
2002	NINDS Microarray Workshop and Advisory Committee, Member, 9/03
2003	NINDS Models II Workshop and Advisory Committee, Member, 10/03
2004	NINDS Pediatric Epilepsy Models Workshop and Advisory Committee, Member, 5/04
2004	Developmental Brain Disorders Study Section, Ad hoc reviewer, 11/04
2005	NINDS Anticonvulsant Therapeutics Workshop reporting to the trans-NIH Bioterrorism Research Coordinating Committee, 2/05
2005	NINDS Molecular Cellular Developmental Neurosciences Special Emphasis Study Section
2005-2007	Organizing Committee, NINDS CURE Epilepsy Conference 2007 Section Chairperson
2006	Organizing Committee, NINDS Workshop on Biomarkers of Epileptogenesis 9/06

2006	Organizing Committee and Chairperson, NINDS Workshop on Models of resistant epilepsy and epileptogenesis, 11/06
2006	ZNS1 SRB-M K99R00 Study Section, Reviewer, 7/06
2007	Chair, Epileptogenesis Section and member, Organizing Committee
	Curing Epilepsy II Conference 3/07
2007	ZNS1 SRB-M K99R00 Study Section, Reviewer, 4/07
2008-2011	NINDS DBD Study Section Regular Member
2009	NICHD IDDRCP Special Advisory Panel Member, NICHD Council
2009	NIH/CSR Distinguished Editorial Panel Member for Stage II oversight of Challenge
	Grant Review, ZRG-BDCN 7/09
2010	Organizing Committee and Chairperson, NINDS Anti-epileptogenesis Workshop,
	8/10
2011-2015	Council Member, NICHD
2011	Inter-institutional Committee on Advancement for Research in Epilepsy (iCARE),
	NINDS, 6/11
2012	Inter-institutional Committee on Advancement for Research in Epilepsy (iCARE),
	NINDS, 6/12
2014	Member, Board of Scientific Counselors, Intramural Program Review (NINDS), 3/14
2014-2016	Member, Multi-Council Working Group for the BRAIN initiative, NIH
2015	Organizing Committee, NINDS Tuberous Sclerosis Workshop, 3/15
2015-2020	Scientific Advisory Board, NICHD
2017	NIH CNNT Study Section, Ad Hoc Member, 2/17

National Science Foundation

1991 Ad hoc reviewer

Israel Science Foundation

2004 Ad hoc reviewer, research grants

Society for Neuroscience

2002-2006	Program Committee
2003	Neurobiology of Disease Workshop: Neurobiology of Epilepsy
2003-2007	Continuing Medical Education Committee, Chair
2003-2005	Neuroethics Committee
2006-2007	Chair, Program Committee
2008-2012	Member, SFN Council
2010-2012	Co-Chair Professional Development Working Group
2011	Member, Frontiers in Neuroscience Planning Committee
2011-2012	Co-Chair Web Advisory Group
2012-2014	Member, Scientific Advisory Board, One Mind for Research
2012-2015	Member, Public Policy Working Group
2013-	Member, Ralph W. Gerard Prize in Neuroscience Selection Committee
2014-	Member, Gruber Prize Selection Committee
2015	

2015- Chair, Public Education and Communications Committee

American Epilepsy Society

1993-1994	Annual Meeting Committee member, Scientific Program
1995-1997	Long Range Planning Committee, Member
1996-present	Continuing Medical Education Committee, Member
1996-2000	Student and Resident Education Committee, Member
1998	Grant Awards Review Committee, Member, American

	Epilepsy Society/Epilepsy Foundation of America
2000-2003	Chair, Continuing Medical Education Annual Meeting Committee
2002-2004	Research and Training Committee
2003-2006	Chair, Council on Education
2005-2007	Organizer, African Scholars Program, American Epilepsy Society and International
	Brain Research Organization
2006-2009	Chair, Merritt Putnam Symposium
2007-2008	Chair, Advocacy Committee
2007-present	Member, Board of Directors
2009-2010	Second Vice President
2010-present	Co-Chair Vision 20:20
2010-2011	Vice President
2011-2012	President
2012-2013	Past President
2013-2015	Member, Nominating Committee
2014	Chair, Nominating Committee
2014-2017	Member, Development Committee
2014-2018	Trustee Lennox and Lombroso Trust

Citizens United for Research on Epilepsy (CURE)

2002-2008	Review Board, Research Grants
2005-2009	Scientific Advisory Board

Epilepsy Phenome Genome Project, NINDS

2004-2013 Advisory Committee, Member

Brandeis University

2005-2008 Advisory Committee, Neurobiology of Disease Program

Epilepsy Therapy Development Project

2005-2011 Scientific Advisory Board, Member

International League Against Epilepsy

2006-2008	Education Committee, Basic Science Commission
2009-2011	Member, North American Commission Committee
2012	Member, International Epilepsy Congress Advisory Committee

Kavli Foundation

2016 Future of the Brain Initiative Work Group

Tuberous Sclerosis Alliance International Scientific Advisory Board (ISAB)

2006-2009 Advisory Committee, Member

American Neurological Association

- 2007-2010 Nominating Committee, Member
- 2010-2012 Scientific Program Committee, Member
- 2013-2015 Long Term Planning Committee
- 2015- Chair, Professional Development Committee
- 2016 Member, Board of Directors

University of Massachusetts Medical School

2016 Member, External Advisory Board, Department of Neurology Review

Roche, Inc

2011-2013 Data Safety Monitoring Board, Clinical Stu
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American Academy of Neurology

2003-	Member, Epilepsy Section
2012	Co-Chair, Joint AES/AAN Task Force for IOM Report Response

Professional Societies:

1979-	Sigma Xi
1986-	American Academy of Neurology
1986-	Massachusetts Medical Society
1988-	Society for Neuroscience
1989-	American Epilepsy Society
1990-2012	Boston Society for Psychiatry and Neurology
1994-	Stroke Council, American Heart Association
2003-	American Neurological Association
2004-	Child Neurology Society
2009-	American Pediatric Society
2009	Fellow, American College of Physicians
2011	Member, Roxbury Medical Improvement Society
2012-	Member, Philadelphia Neurological Society
2012-	John Morgan Medical Society
2013-	College of Physicians, Philadelphia, PA
2015-	National Academy of Medicine

Community

Service/Advocacy Related to Professional Work:

1996	Hospital Housing Program for patient's families, Boston, MA
2000-2002	Visiting Teacher, Neuroscience, Fessenden School, Newton, MA
2002-2008	Visiting Teacher, Neuroscience, Noble and Greenough School, Dedham, MA
2004-2005	Visiting Teacher, Greenwich Academy, Greenwich CT
2009	Brief of Petitioner-Appellant, Terrance Jamar Graham v State
	of Florida, No. 08-7412; Joe Harris Sullivan v State of Florida,
	No. 08-7621
2010	Organizer of request for Institute of Medicine Report on Epilepsy, granted
	commissioned in 10/10, first Committee meeting on the Public Health Dimensions of
	the Epilepsies, 1/10/11
2011-2015	One Mind for Research, Scientific Advisory Board member
2012	Brief Petitioner-Appellant, Evan Miller v State of Alabama,
	No. 10-9646; Kuntrell Jackson v State of Arkansas, No.10-9647
2012 2015	Roard of Trustoos The Franklin Institute Philadelphia PA

2013-2015 Board of Trustees, The Franklin Institute, Philadelphia, PA

Media and Speaking Events Related to Professional Work (selected from over 100 lectures) 2005 Hall Fellow, Lecturer, "Understanding the Teenage Brain"Concord Acade

2005	Hall Fellow, Lecturer, "Understanding the Teenage Brain"Concord Academy,
	Concord MA
2007	Special Lecturer: "Understanding the Teenage Brain", Noble and Greenough School,
	Dedham, MA
2008	Lecturer: "The Teenage Brain", Life Science Series,
	Museum of Science, Boston, MA
2008	Commentary, "Addiction in the teenage brain", The Today Show" NBC, 12/11/08
2009	Commentary, "Epilepsy" 60 Minutes CBS, 10/25/09

2010	Commentary, "The Teen Brain" Morning Edition, National Public Radio, 3/1/10
2010	Special Lecturer, "Neuroscience of the teen brain" Buckingham Browne and Nichols School, Cambridge, MA 4/10
2010	Lecturer, "Teen Brain 101", Lexington Community Center, Lexington High School, Lexington, MA
2010	Lecturer, "The Adolescent Brain: What is myth and what is fact?", Hamilton, MA
2010	Commentary, "The Teen Brain", ABC Good Morning America, 10/3/10
2012	Keynote Speaker, Public Policy Institute, Epilepsy Foundation Washington DC, 4/12
2012	Neuro-Caucus, Capitol Hill, Keynote Speaker, The New Neurology, Washington, DC 6/12
2012	Brief Petitioner-Appellant, Evan Miller v State of Alabama, No. 10-9646; Kuntrell Jackson v State of Arkansas, No.10-9647
2013	Featured Speaker, Rape Treatment Center/Santa Monica-UCLA Medical Center "Using Knowledge About the Teenage Brain to Help Kids Make Wise Choices" Los Angeles, CA 1/31/13
2015	NPR featured guest on "Fresh Air" 1/6/15- The Teenage Brain
2015	NPR featured guest on "Radio Times" 6/15- The Teenage Brain
2015	NPR featured guest on "Diane Rheim Show" 9/15 - The Teenage Brain
2015	Featured guest, MSNBC "Morning Joe" 3/15- The Teenage Brain
2015	Keynote Speaker, Chatauqua Institute 7/8/15 – Teenage Behavior
2015	Keynote Speaker, "Adventures of the Mind", Philadelphia, PA, 8/15
2015	Keynote Speaker other venues: Franklin Institute, Philadelphia, PA 5/15, Concord
	Academy, Concord, MA 10/15, Colony Club, NY, 10/15, Tabor Academy, MA, 10/15, One World Community Health Center, Omaha, NE, 11/15, Princeton Public Library, NJ 11/15,
2015	UNICEF Thought Leaders Series Speaker, "The Adolescent Brain", NY, NY 11/15
2015	Speaker, Congressional Caucus Briefing on the Teenage Brain, US Congress, Washington, DC, 12/15
2016	Keynote Speaker, YPO (Young President's Organization), Raising Successful Children, Houston, TX 2/16
2016	Keynote Speaker, The Aspen Institute, "Neuroscience of Adolescence", Aspen, CO 6/16
2016	Keynote Speaker, other venues: Annenberg Institute, UPenn, 1/16, Penn Charter School, 2/16, Noble and Greenough School, Dedham, MA 2/16, Episcopal School, PA, 3/16, Bryn Mawr College, PA, 3/16, Agnes Irwin School, PA, 5/16, Child Mind Institute, NY, NY, 5/16, Loyola School, Chicago, IL, 9/16, St. Louis Penn Club, MO, 9/16, Penn Libraries, NY, 10/16
2016	Speaker, Pennsylvania Epilepsy Foundation Conference, 10/16
2016	Speaker, Virginia Festival of the Book, 3/16
2016	Presidential Speaker, American College Health Association, San Francisco, CA, 6/16
2016	Keynote Speaker, College Admissions Association Annual Meeting, Columbus, OH, 9/16
2016	Plenary Speaker, Pennsylvania Conference on Juvenile Justice, Harrisburg, PA 11/16
2017	NPR featured guest on "Forum", KQED, San Francisco, CA, 5/17
2017	Keynote Speaker, San Francisco City Arts Series, San Francisco, CA, 5/17
2017	Keynote Speaker: other venues: Christian Boys School, Memphis, TN 3/17, Asheville School, NC, 5/17, Penn Fairfield County Alumni Assoc, 4/17
2017	Keynote Speaker, National Teachers Association Annual Meeting, Los Angeles, CA 5/17
2017	Speaker, Educational Writers Association Annual Meeting, Washington, DC, 6/17

2017 Keynote speaker, The Annapolis Group, Annapolis, VA 6/17

Editorial Boards:

1992-	Ad hoc reviewer	Life Science
1993-	Ad hoc reviewer	Annals of Neurology
1993-	Ad hoc reviewer	Epilepsia
1994-	Ad hoc reviewer	Journal of Neurochemistry
1994-	Ad hoc reviewer	New England Journal of Medicine
1995-	Ad hoc reviewer	Brain Research
1995-	Ad hoc reviewer	Developmental Brain Research
1995-	Ad hoc reviewer	Pediatric Research
1996-	Ad hoc reviewer	Neuroscience
1997-	Ad hoc reviewer	Journal of Neurophysiology
1997-	Ad hoc reviewer	Journal of Neuroscience
2001-	Ad hoc reviewer	Pharmacology and Behavior
2001-	Ad hoc reviewer	Stroke
2002-	Ad hoc reviewer	Brain Research Bulletin
2002-	Ad hoc reviewer	European Journal of Neuroscience
2002-	Ad hoc reviewer	Experimental Neurology
2003-	Ad hoc reviewer	Journal of Comparative Neurology
2003-	Ad hoc reviewer	Neurobiology of Disease
2005-	Ad hoc reviewer	Journal of Neuroscience Research
2007-	Editorial Board Member	Annals of Neurology
2012	Ad hoc reviewer	Brain
2011-	Reviewing editor	Journal of Neuroscience

Awards and Honors:

1978	Highest Honors, Smith College Honors Thesis
1979	Sigma Xi
1987-1992	Physician Scientist Award, NICHD, NIH
1992	American Epilepsy Society Travel Award
1992-1997	FIRST Award, NINDS, NIH
2002	William Campbell Felch Award for Excellence in Continuing Medical Education Research,
	Alliance for Continuing Medical Education
2003	Lennox Lecturer, American Epilepsy Society
2004	Distinguished Alumni Award, Greenwich Academy, CT
2007-2010	Chair, Merritt Putnam Symposia, American Epilepsy Society
2007	Presidential Symposium lecturer, American Epilepsy Society
2007	Master's Degree (Hon) Harvard University
2007-2012	Director's Pioneer Award, GMS, NIH
2008	Swebalius Lecturer, Yale University
2008	Kellaway Lecturer, Baylor School of Medicine
2008	American Epilepsy Annual Research Recognition Award for Basic Science
2009	Grass Traveling Lecturer, Society for Neuroscience, CT Chapter
2009	Lothman Lecturer, University of Virginia Medical School
2009	Tizard Lecturer, University of Bristol, UK
2009	Fellow, American College of Physicians
2010	Denny Brown Lecturer, Boston Society of Psychiatry and Neurology
2010	Donald Baxter Lecturer, McGill University, Montreal, Canada
2011-2012	Endowed Neuroscience Research Chair, Children's Hospital Boston
2013	Sprague Lecturer, MINS, University of Pennsylvania, Philadelphia, PA

2014 Stinnett Honorary Lecturer, Department of Psychiatry, University of Per	nnsylvania,
Philadelphia, PA	
2014 Commencement Keynote Speaker, Temple University, Philadelphia, PA	L
2014 Hoyer Lecture, American Epilepsy Society Annual Meeting, Seattle, W.	A
2015 Member, Dana Foundation	
2015 Member, National Academy of Medicine	
2016 Philip Dodge Lecturer, Washington University, MO	
2016 Presidential Lecturer, 2016 Society for Neuroscience Annual Meeting	
2017 Kirshner Lecturer, Vanderbilt University, Nashville, TN	

PART II: RESEARCH, TEACHING, AND CLINICAL CONTRIBUTIONS

A. Funding Information

Research Funding:

NIH Funding (dire 1987	ect costs only listed): NIH-NINDS Synaptic Recovery afte KO8)	NRSA er Cortical Ischer	PI mia (awarded bu	t not used due to receipt of
1987-1992	NIH-NICHD Physician Scientist Av Damage	KO8 vard: Postischem	PI ic Mental Retard	lation: Reversing Neuron
1992-1995	NIH-NICHD Ischemic Neonatal: Cl Seizures in the Neonat			PI, Volpe overall PI 5: Ischemia Injury and
1992-1997	NIH-NINDS FIRST Award: Perinat Epilepsy	R29 al Hypoxia/Ische	PI emia Model of M	Iental Retardation and \$99,626 per year
1993-1997	NIH-NINDS Project 5: Postischemic	PO1 c MR: Reversing		PI, Volpe overall PI e \$56,834 per year
1997-2002	NIH-NINDS Epileptogenic Effects o	RO1 of Perinatal Hypo	PI oxia	\$860,181/5yrs
1999-2004	NIH-NINDS Periventricular Leukor to Developing Oligode			PI, Volpe overall PI Project 4: Excitotoxic Injury \$608,994/5 yrs
2002-2007	NIH-NINDS The Epileptogenic Effe	RO1 ect of Perinatal H	PI ypoxia	\$1,110,869/5 yrs
2005-2010	NIH-NINDS Periventricular Leukor to Developing Oligode			PI, Volpe overall PI Project 3: Excitotoxic Injury \$160,195 per year

2005-2010	NIH-NINDS RO1 Impact of neuronal Cl transporters on t	Jensen Co-PI , Staley he treatment of epilepsy	
2007-2013	NIH-GMS Director's Pion Understanding the Cognitive Conseque		
2007-2013	NIH-NINDS RO1 Epileptogenic effects of Perinatal Hyp	PI oxia	\$225,000 per year
2009-2010	NIH-Harvard Catalyst Grant Phase I clinical trial of bumetanide in r	Jensen Co-PI, Soul, F neonatal seizures \$50,0	
	2009-2011 NIH – Challenge ARRA R Mechanism of vigabatrin-induced retin		000 per year
2010-2015	NIH- NINDS RO1 Phase I clinical trial of bumetanide in a	Jensen Co-PI, Soul 1 neonatal seizures \$350,	
2010-2015	NIH-NINDS R25 Residency research training program	PI	\$150,000 per year
2011-2018	NIH-NINDS UO1 NeuroNEXT clinical site	Jensen Co-PI, Darras	PI \$300,000 per yr
2012-2017	NIH-NINDS P20 Epilepsy Biomarker Planning Grant	PI (Multi-PI)	
2012-2014	NIH-NINDS R21 Bumetanide as add-on therapy in Tube	PI rous Sclerosis \$125,	000 per year
2013-2018	NIH-NINDS R01 Early Life Seizures Disrupt Critical Per	PI (Multi-PI) riod Plasticity \$300,	000 per year
2013-2015	NIH-NINDS R56 Epileptogenic effect of perinatal hypox	PI sia \$300,	000
2015-2020	NIH-NINDS T32 Remapping neurology through translat	PI (Multi-PI) ion and innovation	\$129,000 (year 1) \$264,000 (yr 2-5)
Private Foundations	and National Associations:		
1989-1990	William Randolph Hearst Fund Epileptogenic Effect of Hypoxia	PI	
1989-1992	Kaplan Foundation Neonatal Seizures	PI	
1992-1993	Milton Fund Hypoxic Neuronal Injury	PI	

1992-1993	Charles Hood Foundation The Acute and Long Term Anti-Convuls Acid Antagonists in a Model of Hypoxia	PI sant Efficacy of Novel Excitatory Amino a-Induced Neonatal Seizures
1993-1994	Epilepsy Foundation of America Anticonvulsant Action of PQQ; A Nove Redox Site	PI l Modulatory Agent at the NMDA Receptor
1993-1994	Kaplan Foundation Neonatal Seizures	PI
1995-1996	William Randolph Hearst Fund Epileptogenic Effect of Hypoxia	PI
1993-1996	American Heart Association Grant-In-Aid: Neuroprotective Effect of	PI PQQ in an Animal Model of Stroke
1997-1998	William Randolph Hearst Fund Alterations in Neuronal Excitability and	PI Gene Expression After Perinatal Hypoxia
2000-2002	United Cerebral Palsy Association Glutamate-Mediated Oligodendrocyte In	PI jury in Periventricular Leukomalacia
2000-2002	Charitable Leadership Foundation Therapeutic Potential of Bioquinones in	PI the Treatment of Stroke and Epilepsy
2000-2004	Robert Wood Johnson Foundation The Antiepileptogenic and Neuroprotect Perinatal Seizures	PI tive Effects of Topiramate in a Rat Model of
2005-2007	United Cerebral Palsy Association The Protective Role of Metabotropic Glu Leukomalacia	PI utamate Receptors in Periventricular
2005-2007	The Epilepsy Project Antiepileptogenic and Neuroprotective I Injury	PI Properties of Talampanel in Neonatal Brain
2005-2007	Tuberous Sclerosis Alliance Novel Role of NMDA Receptors in TSC	PI
2007-2008	Parents Against Childhood Epilepsy (PA Rapid post-translational modification of novel target for antiepileptogenesis	CE) PI glutamate receptors in early life seizures: A
2011-2015	Hope for Harper Foundation Regulating epilepsy in CDKL5 disorder	PI
2016-2018	Penn Orphan Disease Center CDKL5 Program of Excellence Pilot Gra	PI ant

Industry Supported Investigator Initiated Awards

2006-2008	UCB Pharma Efficacy of Levetiracetam in Neonatal Seizures
2009-2011	Lundbeck Pharma Efficacy of Bumetanide in preventing Vigabatrin-induced retinal toxicity
2011-2012	Neurotherapeutix Efficacy of novel GABA receptor modulators in epilepsy
2012-2017	Esai Pharma Perampanel as a treatment of neonatal seizures

Funding For Trainees:

NIH funding:	
1993-1996	NRSA (NINDS) postdoctoral fellowship Advisor/Sponsor for Carl Wang, PhD
1997-2001	NRSA (NINDS) postdoctoral fellowship Advisor/Sponsor for Russell Sanchez, PhD
1998-2003	KO8 (NICHD) Mentored Clinician Scientist Award Sponsor for SookyongKoh, MD, PhD
2000-2005	KO8 (NINDS) Mentored Clinician Scientist Award Sponsor for Pamela Follett, MD
2003-2005	NRSA (NINDS) postdoctoral fellowship Advisor/Sponsor for Wenbin Deng, PhD
2004-2005	NRSA (NINDS) postdoctoral fellowship Advisor/Sponsor for MirnaLechpammer, MD, PhD
2006-2011	KO8 (NINDS) Mentored Clinician Scientist Award Advisor/Sponsor for Alexander Rotenberg, MD, PhD
2007-2008	NRSA (NICHD) postdoctoral fellowship Advisor/Supervisor for Debra Selip, MD
2008-2009	NRSA (NICHD) postdoctoral fellowship Advisor/Supervisor for Xiangping Zhou, MD, PhD
2008-2009	NRSA (NINDS) postdoctoral fellowship – F32 Advisor/Supervisor for Jocelyn Lippman, PhD
2009-2011	NRSA (NICHD) postdoctoral fellowship Advisor/Supervisor for Chengwen Zhou, PhD
2009-2011	NRSA (NICHD) postdoctoral fellowship Advisor/Supervisor for Jenny Yu, MD

2010-2012	NRSA (NINDS) Individual postdoctoral fellowship – F32 Advisor/Supervisor for Jocelyn Lippman, PhD
2010-2012	R25 (NINDS) Residency/Fellowship Training Grant Award Advisor/Supervisor for Soma Sengupta, MD, PhD
2011-2012	KL2 (Harvard CTSA/Catalyst) Mentored Career Development Award Advisor/Supervisor for Mirna Lechpammer, MD, PhD
2014-2016	KL2 (UPenn ITMAT) Mentored Career Development Award Advisor/Supervisor for Ram Balu, MD, PhD
Department of 2008-2010	Defense Funding Department of the Army Concept Award Alex Rotenberg, MD, PhD
Private Founda 1992	ations and National Associations: Epilepsy Foundation of America Sponsor, Medical Student Research for Fellowship for Ginger Gardner, MD
1997-1998	Epilepsy Foundation of America Sponsor, Postdoctoral Research Fellowship for Russell Sanchez, PhD
1997-2000	William Randolph Hearst Fund Supervisor for Pamela Follett, MD
1999-2000	Robert Wood Johnson Foundation Supervisor for SookyongKoh, MD, PhD
2002-2003	William Randolph Hearst Fund Supervisor for Delia Talos, MD
2002-2004	Charles Hood Medical Foundation Supervisor for Pamela Follett, MD
2003-2004	Victor Horsley Fellowship, American Epilepsy Foundation Supervisor for Weimin Dai, MD, PhD
2003-2004	William Randolph Hearst Fund Supervisor for Delia Talos, MD
2003-2005	William Randolph Hearst Foundation Supervisor for Wenbin Deng, PhD
2004-2005	American Epilepsy Society/Epilepsy Foundation Supervisor for Delia Talos, MD
2004-2007	Tuberous Sclerosis Alliance Supervisor for Delia Talos, MD
2006-2007	Citizens United for Research in Epilepsy (CURE) Junior Investigator Award for Alex Rotenberg, MD, PhD

2009-2011	Citizens United for Research in Epilepsy Research Award (CURE) NikolausSucher, MD
2006-2007	Research Grant, William Randolph Hearst Foundation, Advisor/Sponsor for Simon Manning, MD
2006-2007	Research Grant, Lombroso Research Foundation, Advisor/Supervisor for Delia, Talos, MD
2009-2010	Early Career Development Grant, Epilepsy Research Foundation/AES, Advisor/Mentor for Tobias Loddenkemper, MD
2009-2011	Alberta Heritage Foundation for Medical Research Advisor/Mentor for Lauren Jantzie, PhD
2009-2011	American Academy of Neurology Career Development Award Advisor/Mentor for Martina Vendrame, MD, PhD
2009-2011	National Science and Engineering Foundation of Canada fellowship Advisor/Supervisor for Lauren Jantzie, PhD
2009-2011	Citizens United for Research in Epilepsy Junior Investigator Award (CURE) Delia Talos, MD
2010	Nancy Lurie Marks Foundation Research Internship Matthew DeSalvo, BA, Harvard Medical School MD 2013
2010-2011	William Randolph Hearst Foundation Research Grant Advisor/Supervisor for Lauren Jantzie, PhD
2011-2012	Epilepsy Foundation/American Epilepsy Society Postdoctoral Fellowship Advisor/Mentor for Hongyu Sun, PhD
2011-2012	Baby Alex Foundation Research Grant MirnaLechpammer, MD, PhD
2011-2013	Canadian Health Institute Research (CHIR) Fellowship Advisor/Supervisor for Hongyu Sun, PhD

Industry sponsored

2008- Neuropace Investigator initiated research grant Alex Rotenberg, MD, PhD

B. Report of Current Research Activities

Project: Mechanisms of epileptogenesis in the immature brain Elucidation of the cellular and molecular mechanisms of epilepsy in the immature brain. Evaluation of the role of developmentally regulated glutamate and GABA receptors and ion transporters using in vitro cell and slice culture methods, whole cell patch clamp

electrophysiology, calcium imaging, and in vivo models, preclinical assessment of biomarkers and therapeutics, as well as assessment of target expression in human fetal, infant and adult brain tissue.

Project: Pathogenesis of premature brain injury

Evaluation of age and cell-specific factors in injury rodent and human white matter. Therapeutic trials targeting glutamate receptor mediated excitotoxicityand downstream activity dependent signaling cascades in neurons and glia using in vivo and in vitro models, as well as target assessment in human tissue.

Project: Epileptogenic signaling cascades

Examination of age-specific signaling cascades downstream of glutamate receptors induced by seizures in neurons in immature cortex and hippocampus. These studies include identification of post translational as well as transcriptional events that modify glutamate receptor efficacy, and identify therapeutic targets as a function of time following seizures. In vitro and in vivo seizure models are employed, with validation of altered proteins and therapeutic targets in normal and diseased human tissue. Proteomic analyses with mass spectrometry are included in cell culture and rodent models of epilepsy, as well as proteomic investigation in human tissue.

Project: Abnormal neurotransmitter receptor expression in Tuberous Sclerosis Complex (TSC) and focal cortical dysplasia

Evaluation of abnormal patterns of glutamate and GABA receptor expression in cells within FCD, TSC tuber lesions and perituberal tissue that may underlie epileptogenesis in TSC and refractory epilepsy.Parallel studies using human pathology and biopsy samples, and comparison to novel transgenic mouse model of TSC.

Project: Role of chloride transporters in vigabatrin-induced retinal toxicity

Determination of cell-specific differences in KCC2 and NKCC1 expression in retina in rodent and human. Preclinical trial of bumetanide in a rodent model of vigabatrin-induced retinal toxicity

Project: Interaction between epilepsy and autism

Testing the hypothesis that there are major overlaps in the cascades underlying epileptogenesis and those responsible for cognitive deficits associated with epilepsy. In addition, defining how seizures alter gene and protein expression of factors implicated in the development of autism, including activity mediated and epigenetic mechanisms.

C. Report of Teaching

Harvard Medical School and related institutions

1. Local Contributions

a. Medical School Courses

1989-1996	Tutor: Human Nervous System and Behavior
	Harvard Medical School(New Pathway Program)
	7-8 students, 12hours/week, 3.5 months
2002	Lecturer: Human Nervous System
	"Cerebrovascular Disease"
	Harvard Medical School
	1 lecture and patient presentation, 50 students, 1 day

2003, 2005Lecturer: Human Nervous System

"Excitotoxicity"; and 2) "Cerebrovascular Disease"
 Harvard Medical School
 2 lectures and patient presentation, 50 students, 1 day per year

b. Graduate Medical Courses

	1998-1999	Course director: Neurobiology 300 Graduate Seminar Series "Mechanisms of Epileptogenesis" Harvard Medical School 8 students, 12hours/week, 3 months
	2006	Lecturer: Basic Mechanisms of Epilepsy Neuroscience Program Brandeis University
	2007	Lecturer: Basic Mechanisms of Epilepsy Neuroscience Program Brandeis University
	2009	Lecturer: Novel Therapeutics for Neonatal Seizures HST Clinical Neuroscience Course
	2009	Lecturer Biological and Biomedical Sciences Program Seminar Harvard Medical School
	2010	Course Co-Director and Lecturer Harvard Catalyst Intensive Course in Translational Medicine Harvard Medical School
	2011	Course Co-Director and Lecturer Harvard Catalyst Intensive Course in Translational Medicine Harvard Medical School
	2012	Course Co-Director and Lecturer Harvard Catalyst Intensive Course in Translational Medicine Harvard Medical School
	2013-2016 Lect	urer Harvard Catalyst Intensive Course in Translational Medicine Harvard Medical School
c F	Iarvard Medica	l School Continuing Education
	1992	Neurology Intensive Review Course, 10/92 "Vascular Dementia"
	1993	Course in Primary Care Medicine, 3/93 "Stroke"
	1993	Brain Injury and Pediatric Cardiac Surgery, 10/93 "CNS Development: EEG"
	1993	Neurology Intensive Review Course, 11/93

	"Stroke"
1994	Course in Primary Care Medicine, 3/94 "Stroke"
1994	Neurology for Psychiatrists, 5/94 "Stroke"
1995	Course in Primary Care Medicine, 3/94 "Stroke"
1995	Course Director: Comprehensive Review of Cerebrovascular Disorders, 3/95 "CerebroprotectiveDrugs" "Stroke in Cardiac Surgery"
1996	Course in Primary Care Medicine, Boston, MA; 3/96 "Stroke"
1996	Course Director : Comprehensive Review of Cerebrovascular Disorders, 4/96 "CerebroprotectiveDrugs"
1996	Neurology Intensive Review Course, 9/18/96: "CerebroprotectiveDrugs"
1997	Course in Primary Care Medicine, 3/97 "Stroke"
1997	Neurology Intensive Review Course, 9/15/97 "CerebroprotectiveDrugs"
1997	Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 5/97
	Instructional courses on "CerebroprotectiveDrugs"
1998	
1998 2000	Instructional courses on "CerebroprotectiveDrugs" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 10/98
	Instructional courses on "CerebroprotectiveDrugs" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 10/98 Instructional courses on "CerebroprotectiveDrugs" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 5/00
2000	Instructional courses on "CerebroprotectiveDrugs" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 10/98 Instructional courses on "CerebroprotectiveDrugs" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 5/00 Instructional courses on "Basic Mechanisms of Stroke" Course Director: Comprehensive Review of Cerebrovascular Disorders, Boston, MA; 5/00

2002	Michael J. Bresnan Child Neurology Course, 9/02 "Age-specific Mechanisms of Stroke and Epilepsy"
2002	Neurology Intensive Review Course, 10/02 "Future Directions in Stroke Therapy"
2003	Neurology Intensive Review Course, 10/03 "Future Directions in Stroke Therapy"
2004	Michael J. Bresnan Course in Pediatric Neurology, 9/04 "Neonatal Seizures"
2006	Michael J. Bresnan Course in Pediatric Neurology, 9/06 "Mechanisms of epilepsy"
2006	Michael J. Bresnan Course in Pediatric Neurology, 9/06 "Learning and Memory in the Adolescent Brain"
2007	Adolescent Medicine Seminar, Pediatrics, Children's Hospital, Boston, 4/07 "The Paradox of the Adolescent Brian: What Developmental Neuroscience Can Tell Us"
2007	Neurophysiology Division Seminar, 6/07 Brigham and Women's Hospital "Mechanisms of Epileptogenesis in Cortical Malformations"
2007	Adolescent Medicine Core Conference, 3/08 "The Paradox of the Teenage Brain" Children's Hospital Boston
2008	Michael J. Bresnan Course in Pediatric Neurology, 9/08 "Mechanisms of epilepsy"
2008	Michael J. Bresnan Course in Pediatric Neurology, 9/08 "Learning and Memory in the Adolescent Brain"
2009	Treating Young Adults Course Department of Psychiatry, Harvard Medical School, 4/09 "The Paradox of the Adolescent Brain"
2009	Children's Hospital Cooperative Seminar "The Adolescent Brain" Waltham, MA 5/09
2010	Michael J. Bresnan Course in Pediatric Neurology, 9/10 "Learning and Memory in the Adolescent Brain"
2013	Intensive Training in Translational Medicine Course "Accessing your Department Chair" Harvard Medical School, Harvard Catalyst, 6/13
2014	Intensive Training in Translational Medicine Course

	"Accessing your Department Chair" Harvard Medical School, Harvard Catalyst, 6/14
2015	Intensive Training in Translational Medicine Course "Accessing your Department Chair" Harvard Medical School, Harvard Catalyst, 10/15
University of Pennsyly	ania/ Perelman School of Medicine
	I Graduate School Courses, and other faculty educational activities Lecturer, Neurobiology of Disease Course "Cognitive Consequences of Epilepsy", 10/13
	Cognitive Consequences of Ephiepsy, 10/15
2013	Lecturer, Neuroscience Seminar Series "Mechanisms of Epileptogenesis"
2015	Lecturer, Brain and Behavior Course, 3/15 "Mechanisms of Epilepsy"
2015	Speaker, Penn Faculty Pathways Program, 10/15 "Lessons about Effective Leadership"
2015	Speaker, Penn Parent Leadership Board, 10/15 "The Teenage Brain: Knowledge You Can Use"
2016	Speaker, Penn Disability Forum, 3/16 "Adolescence in the setting of disability"
2016	Keynote Speaker, "Neurobiology of adolescence and young adulthood" Student Affairs Leadership Team Retreat, UPenn, 6/16
	es (current positions noted): Post-doctoral fellowship Supervisor: Carl Wang, Ph.D. (Instructor in Neurology, Harvard Medical School)
1996-2001	Post-doctoral fellowship Supervisor: Russell Sanchez, Ph.D. (Assistant Professor of Neurology, Univ Texas Southwestern Med School)
1998-2002	Postdoctoral Fellowship Supervisor and NIH KO8 Mentor for Sookyong Koh,M.D., Ph.D. (Associate Professor of Neurology, Emory University)
1007 2005 Deat	destoral Followship Supervisor and NIII KO9 Menter for Demole Follott, M.D.
1997-2005 Posit	doctoral Fellowship Supervisor and NIH KO8 Mentor for Pamela Follett, M.D. (Assistant Professor of Neurology, Tufts/New England Medical Center)
2001-2004 Posto	doctoral Fellowship Supervisor: Weimin Dai, M.D., Ph.D. (Director of Research, Shanghai Pharmaceuticals Corp, Ltd., China)
2001-2006 Posto	loctoral Fellowship Supervisor: Wenbin Deng, Ph.D. (Assistant Professor, Neuroscience, University of California Davis)

2002-2010 Postdoctoral Fellowship Supervisor: Delia Maria Talos, M.D.

(Assistant Professor, Neurology and Neuroscience, New York University Medical School, NY, NY)

- 2004-2006 Postdoctoral Fellowship Supervisor: Hyung-Kyung Park, M.D. (Assistant Professor, Asan Medical College, Korea)
- 2004-2009 Postdoctoral Fellowship Supervisor: Simon Manning, MD (Instructor in Pediatrics, Children's Hospital, Boston)
- 2004-2006 Postdoctoral Fellowship Supervisor: MirnaLechpammer, M.D., Ph.D. (Clinical Fellow, Neuropathology Dept, Children's Hospital Boston)
- 2005-2006 Postdoctoral Fellowship Supervisor: Chang Joo Park, M.D. (Attending Physician, Asan Medical College, Seoul Korea)
- 2005-2011 Postdoctoral Fellowship Supervisor: Chengwen Zhou, Ph.D.
- 2005-2012 Postdoctoral Fellowship Supervisor, and Mentor for Junior Investigator Awardand NIH KO8 Award: Alexander Rotenberg, M.D., Ph.D. (Assistant Professor of Neurology, Children's Hospital, Boston/ HMS)
- 2006-2007 Postdoctoral Fellowship Supervisor, An Li, MD (Assistant Professor, Pediatrics, Shanghi Medical University)
- 2006-present Postdoctoral Fellowship Supervisor: Sanjay Rakhade, PhD (Instructor in Neurology, Harvard Medical School)
- 2006-2008 Postdoctoral Fellowship Supervisor: Debra Selip, MD (Assistant Professor, Rush Medical Center, Chicago, IL)
- 2007-2008 Postdoctoral Fellowship Supervisor: Meayoung Chang, MD (Assistant Professor, Seoul Medical College)
- 2007-2009 Postdoctoral Fellowship Supervisor: Xiangping Zhou, MD, PhD (Neurology Resident, Albany Medical College, Albany, NY)
- 2008-present Postdoctoral Fellowship Supervisor: Lauren Jantzie, PhD (Assistant Professor, University of New Mexico)
- 2008-2010 Postdoctoral Fellowship Supervisor: Martina Vendrame, MD, PhD (Assistant Professor, Neurology, Boston University Medical School)
- 2008-present Postdoctoral Fellowship Supervisor: Jocelyn Lippman, PhD
- 2008-2011 Junior faculty mentor: Tobias Loddenkemper, MD (Assistant Professor, Neurology, CHB)
- 2009-present Postdoctoral Fellowship Supervisor: Hongyu Sun, PhD

2009-2011 Postdoctoral Fellowship Supervisor: Jenny Yu, MD (Assistant Professor, Neonatal Medicine, Johns Hopkins University)

2009-2010 Postdoctoral Fellowship Supervisor: Pia Wintermark, MD	
(Assistant Professor, Neonatology, McGill University, Montreal,	Canada)

2009-2011 Postdoctoral Fellowship Supervisor: Cristina Hilario Gomez, PhD

- 2010-2012 Junior Faculty mentor: Mirna Lechpammer, MD, PhD (NIH KL2) (Assistant Professor, Neuropathology, University of California, San Diego)
- 2011-2012 R25 Postdoctoral Fellowship mentor: Soma Sengupta, MD, PhD (Instructor, Neurology, Beth Israel Deaconess Hospital, Boston, MA)
- 2011-2012 Postdoctoral Fellowship Supervisor: Makram Obeid, MD (Assistant Professor, Barrow Neurological Institute, Pheonix, AZ)
- 2014-present Postdoctoral Fellowship Supervisor: Ram Balu, MD, PhD
- 2016-present Postdoctoral Fellowship Supervisor, Sarah Gourmaud, PhD

E. Predoctoral trainees (current positions noted):

Harvard Medical School and related institutions

1987-1989	Premedical tutor, Winthrop House, Harvard University
1991	Supervisor, Medical Student Independent study project, Boston University Medical
	School: Ginger G. Gardner, M.D.
	(Resident, Obstetrics and Gynecology, Johns Hopkins Medical School)
1992	Supervisor, Independent study project, Department of Biology, Harvard University:
	Ashura P. Williams (Investigator, NIMH)
1992	Supervisor, Epilepsy Foundation Medical Student Fellowship: Ginger G. Gardner,
	M.D. (Resident, Obstetrics and Gynecology, Johns Hopkins Medical School)
1993-1994	Thesis Advisor, Undergraduate Honors Thesis, Department of Psychology, Harvard
	University: Mary Carol Stevens. BA
	(Resident tutor, Harvard University)
1993-1994	Thesis Advisor, Undergraduate Honors Thesis, Department of Biology, Harvard
	University: Neal Sondheimer
	(Assistant Professor, Pediatrics, University of Pennsylvania)
1993-1994	Supervisor, Medical Student Independent Project, Harvard Medical School: Heidi
	Blume, M.D. (Assistant Professor, Pediatrics, Univ. of Washington)
1995-1996	Thesis Advisor, Undergraduate Honors Thesis, Department of Psychology, Harvard
	University: Francesca Williams (Medical student, NYU Medical School)
1996	Thesis Advisory Committee Member, Doctoral Thesis, Harvard Program in
	Neuroscience: Karrin Sorra, PhD (Pfizer Pharmaceuticals)
1997	Thesis Advisor, Undergraduate Honors Thesis, Neuroscience, Harvard University:
	Anne Liu (Medical student, UCLA Medical School)
1997	Thesis Advisor, Undergraduate Honors Thesis, Neuroscience, Harvard University:
	Elijah Owens (Medical Student, University of Chicago)
1997-1999	Thesis Advisor, Undergraduate Honors Thesis, Neuroscience, Harvard University:
	Joelle Simpson (Medical Student, NYU Medical School)
2000-2001	Thesis Committee Member, Lianna Orlando, Division of Medical Sciences Harvard
	Medical School (Ph.D., Postdoctoral Fellow, MGH)
2000-2002	Supervisor, Research Student, Jocelyn Lippman
	(Ph.D. candidate, Neuroscience Program, Brown University)

2000-2005	Thesis Committee Member, Brian Whalen, Division of Medical Sciences, Harvard
	Medical School (Graduate Student, Harvard Medical School)
2004-	Independent Study Advisor, Department of Chemistry, Harvard University: Alisa
	Kahn (Undergraduate 2005, Harvard University)
2003-2005	Undergraduate Reseach Advisor: Rachel Levada
	(Graduate Student, Cornell Weill Medical College)
2005-2007	Undergraduate Research Advisor: Paven Aujla
	(Medical Student, Albert Einstein Medical College)
2004-2005	Rotation Advisor, Ali Shoeb, MIT
	(Graduate Student, HST/MIT)
2005-2006	Thesis Advisor, Adam Numis, MIT
	(Medical Student, HST/MIT)
2006-2007	Thesis Advisor, Erin Straw, Harvard University
	(Medical Student, Columbia University)
2006-2008	Thesis Advisor, Benjamin Lee, Harvard University
	(Medical Student, Harvard Medical School)
2006-2008	Thesis Advisor, Victor Lan, Harvard University
	(Medical Student, Albert Einstein Medical College)
2007-2008	Rotation Advisor, Showming Kwok, MIT
	(Graduate Student MIT)
2007-2009	Undergraduate Research Supervisor: Erin Fitzgerald
	(Medical Student, Albany Medical School)
2007-2009	Undergraduate Research Supervisor: Griffin Boll
	(Medical Student, University of Vermont Medical School
2007-2010	Undergraduate Research Supervisor: Annelise Joseph
	(Graduate Student, Neuroscience, Brandeis University)
2010-2012	Thesis Advisor, Melody Hu, Harvard University
2010-2011	Medical Student Research Fellowship: Matthew DeSalvo
	(Medical Student, Harvard Medical School
2011	Thesis Committee: Mark Bell
	Neuroscience graduate program Brown University

University of Pennsylvania/ Perelman School of Medicine

2014	Rotation advisor, Blake Kimmey
	Neuroscience Graduate Group, Perelman School of Medicine
2014	Rotation advisor, Kate Folweiler
	Neuroscience Graduate Group, Perelman School of Medicine
2014	Rotation advisor, Annelise Gruenwald, Neuroscience Graduate Group,
	Perelman School of Medicine
2014-	Thesis Advisor, Madhu Yennewar, Pharmacology Graduate Program,
	University of Pennsylvania
2015 -	Thesis Advisor, Yeri Song,
	Neuroscience Graduate Group, Perelman School of Medicine
2014-2016	Undergraduate Thesis Advisor, Luke Massaro, University of Pennsylvania
2015-2016	Thesis Committee Member, Eva Klinman,
	Neuroscience Graduate Group, Perelman School of Medicine
2015-	Thesis Committee Member, Julie Kahn
	Neuroscience Graduate Group, Perelman School of Medicine
2015-2017	Undergraduate Thesis Advisor, Evan Honig, University of Pennsylvania

2. Regional, national, or international contributions

a. Invited presentations

<u>Regional</u> 1993

Symposium "Excitatory amino Acids and Epilepsy" Epilepsy Challenge Symposium, Boston, MA; 5/93

1993

Neurology Grand Rounds "Age-Dependent Effects of Cerebral Hypoxia/Ischemia" Harvard Longwood Neurology Residency Training Program, Brigham and Women's Hospital, Boston, MA, 9/93

1994

Symposium "Epileptogenic Effects of Hypoxia" Division of Neurology Research, Children's Hospital, Boston, MA, 5/94

1996

Seminar "Epileptogenic Effect of Perinatal Hypoxia" Beth Israel/Harvard Medical School Seminars in Neurobiology, Boston, MA, 2/96

1996

Lecture "Seizures in the Developing Brain" Department of Neurology, Tufts University Medical School, New England Medical Center, Boston, MA, 3/96

1996

Keynote Speaker Symposium on Women in Science Smith College, Northampton, MA, 3/30/96

1996

Lecture "Redox Modulation of the NMDA Receptor" Occlusive Cerebrovascular Disease Workshop, Yale School of Medicine, New Haven, CT, 5/18/96

1996

Lecture "Redox Modulation of the NMDA Receptor" Occlusive Cerebrovascular Disease Workshop, Yale School of Medicine, 5/18/96

1996

Lecture "Stroke" Bar Harbor Medical Symposium, Bar Harbor, ME, 7/15/96

1997

Seminar "Redox Modulation of the NMDA Receptor in Stoke and Epilepsy" Beth Israel/Harvard Medical School Seminars in Neurobiology, Boston, MA, 2/97

1997

Neurology Grand Rounds "Modeling Neonatal Epilepsy: The Interaction Between Brain Development and Epilepsy" Harvard Longwood Neurology Residency Training Program, Brigham and Women's Hospital, Boston, MA, 5/97

1997

Merritt-Putnam Symposium Speaker "Brain Development and Seizures" American Epilepsy Society Annual Meeting, Boston, MA, 12/97

1997

Investigator's Workshop Chairperson and Speaker "Early Onset Epilepsy" American Epilepsy Society Annual Meeting, Boston, MA 12/97

1998

Neurology Grand Rounds "Maturational Alterations in Glutamate Receptor Expression" University of Rochester, 6/98

1999

Seminar "The Role of AMPA Receptors in Epileptogenesis in the Immature Brain" Boston College Department of Biology Seminar Series, Boston, MA, 4/99

1999

Neurology Grand Rounds "The Role of Glutamate Receptor Maturation in Perinatal Brain Injury" Department of Neurology, Massachusetts General Hospital, Boston, MA, 5/99

2000

Grand Rounds "The Role of Glutamate Receptor Maturation in Perinatal Brain Injury" Harvard Longwood Neurosurgical Program, Brigham and Women's Hospital, Boston, MA, 1/00

2000

Neurology Grand Rounds "Glutamate Receptor Maturation and Perinatal Brain Injury" Harvard Longwood Neurology Grand Rounds, Boston, MA, 5/00

2001

Neuroscience Seminar Series "Developmental Regulation of Glutamate Receptor Expression" University of Pennsylvania/Children's Hospital, 6/01

2002

Seminar "Interaction Between Brain Development, Excitotoxicity, and Epilepsy" Neuroscience Program Seminar, Tufts University Medical School, Boston, MA, 1/02

Grand Rounds "Role of Glutamate Receptor Maturation in Perinatal Brain Injury" Department of Neurology, Children's Hospital, Boston, MA, 2/02

2004

Tuberous Sclerosis Alliance Workshop, Speaker "Glutamate Receptor Abnormalities in Tuberous Sclerosis" New York, NY, 11/04

2005

Neurology Grand Rounds, Longwood Medical Area and Children's Hospital Boston "Role of Glutamate Receptor Maturation in Perinatal Brain Injury and Seizures:Translational Implications" Boston, MA, 1/05.

2005

Congress of Neurological Surgeons, Speaker "Cellular and Molecular Mechanisms of Epileptogenesis in Tuberous Sclerosis" Boston, MA, 10/05

2006

Newborn Medicine Grand Rounds, Children's Hospital, Boston and Partners Neonatology Program, Speaker

"Neonatal Seizures: Is the Bench Finally Coming to the Bedside?" Boston, MA, 1/06

2006

Tuberous Sclerosis/LAM Conference. Harvard Medical Institute, Speaker "Abnormalities in Glutamate Receptor Expression in Human Tuberous Sclerosis" Boston, MA, 2/06

2006

"Neonatal Neurology: Bench to Bedside" Speaker, Volpe Symposium, Children's Hospital, Boston, MA, 5/06

2006

"Mechanisms of Learning and Memory in the Adolescent Brain" Adolescent medicine Conference, Baystate Medical Center, Boxborough, MA 10/06

2007

"Understanding the Teenage Brain" Adolescent Psychiatry, Children's Hospital 3/07

2007

"Epilepsy: A Primer from Basic Mechanisms to Clinical Experience" Brandeis University, Waltham, MA 3/07

2008

"The Paradox of the Teenage Brain" Adolescent Psychiatry, McLean Hospital, Belmont, MA 2/08

2008

"What Neuroscience Tells us about the Teenage Brain"

Learning and Brain Conference Massachusetts Institute of Technology, 4/08

2008

"The use of bumetanide in the treatment of neonatal seizures: Bench to Bedside translation" Newborn Medicine Grand Rounds Children's Hospital and Brigham and Women's Hospital, Boston, MA 9/08

2009

"Learning and Memory in Teenage Brain" Adolescent Psychiatry, McLean Hospital, Belmont, MA 2/09

2009

"Basic mechanisms underlying the paradox of the teenage brain" Clinical Brain Science Collaborative Seminar Children's Hospital Boston, Boston, MA 4/09

2009

"What Neuroscience Tells us about the Teenage Brain" Learning and Brain Conference Massachusetts Institute of Technology, 11/09

2010

"Teenage Brain: What is myth and what is fact? Adolescent Psychiatry Seminar McLean Hospital, Belmont, MA 4/10

2010

"Epilepsy Spectrum Disorder" Denny Brown Memorial Lecture Boston Society for Neurology and Psychiatry, 5/10

2010

"The Paradoxical State of the Adolescent Brain" Combined Anesthesia and General Surgery Grand Rounds Children's Hospital, Boston, MA, 9/10

2010

"Interaction between Epilepsy and Autism" Epilepsy Research Seminar Children's Hospital Boston, 12/10

2011

"Epilepsy beyond the seizures" Children's Hospital Neurology Grand Rounds Harvard Institute of Medicine, 10/11

2011

"Early phase clinical trials" Panelist, Manton Center for Rare Diseases Symposium Children's Hospital Boston, 10/11 **2017** "The Adolescent Brain" Roxbury Medical Improvement Society Boston, MA 4/17

University of Pennsylvania/Perelman School of Medicine

2013

"The Teen Brain Explained" The Sprague Lecture Mahoney Institute for Neurosciences Annual Symposium, 4/13

2013

"The Paradox of the Teen Brain" Neurology Grand Rounds Children's Hospital of Pennyslvania, PA 10/13

2013

"Advancements in Human Tissue Studies in Epilepsy" Neurosurgery Grand Rounds Perelman School of Medicine, Univ of Pennsylvania, PA 10/13

2013

"Exploring the Shared Neurobiology of Early Life Epilepsy and Autism" IDDRC Symposium University of Pennsylvania, Perelman School of Medicine, Philadelphia PA 9/13

2013

"Altered synaptic plasticity and signaling as a consequence of early life epilepsy" Mahoney Institute of Neuroscience Seminar Series University of Pennsylvania, PA, 11/13

2013

"Explaining the Teenage Brain" CHOP Neuroscience Grand Rounds Children's Hospital of Philadelphia, PA, 11/13

2014

"Mechanisms of Neonatal Seizures" Neonatology Seminar Series Children's Hospital of Philadelphia, PA, 1/14

2014

"The Teen Brain: A Neuroscientist's Survival Guide" Pediatric Grand Rounds Children's Hospital of Philadelphia, PA, 2/14

2014

"Innovation and Technology in Translational Neuroscience" CTSA Undergraduate Symposium University of Pennsylvania, Philadelphia, PA, 4/14

"Epilepsy and Cognitive Consequences: Shared Mechanisms and Treatment Targets?" James Stinnett Honorary Lecture Psychiatry Grand Rounds University of Pennsylvania, Philadelphia, PA, 5/14

2014

"The New Neurology" Keynote Speaker – Commencement Temple University, Philadelphia, PA 6/14

2015

The Teenage Brain Explained Philadelphia Neurological Society College of Physicians, Philadelphia, PA 9/15

2016

Adolescent Neurobiology 15th Annual Disability Symposium University of Pennsylvania, PA 4/16

2017

Neurobiology of Adolescence CHAS Winter Summit University of Pennsylvania, PA 1/17

2017

Neuroscience You Can Use Executive Vice Presidents Speaker Series University of Pennsylvania, PA 2/17

<u>National</u>

1990 Grand Rounds "Perinatal Seizure Mechanisms" University of Rochester Medical Center, Rochester, NY, 7/90

1993

Neurosurgery Grand Rounds "The Epileptogenic Effect of Perinatal Hypoxia" Dept. of Neurosurgery, University of Washington, Seattle, WA, 10/93

1995

Session Chairperson and Invited Lecture "Redox Reagents and the CNS" Gordon Conference, Ventura, CA, 2/95

1998

Symposium Speaker "Role of Glutamate Receptor Maturation in Perinatal Brain Injury" The Glutamate Cascade Symposium, NIH, Bethesda, MD, 5/98

Symposium Speaker

"Glutamate Receptor in the Epileptogenesis and White Matter Injury in the Developing Brain" American Epilepsy Society Annual Meeting Symposium on Neuroprotection, Miami, FL, 12/99

2000

Panelist "Curing Epilepsy: Focus on the Future" Cure for Epilepsy Conference, NIH, 3/00

2000

Symposium Speaker "The Relationship Between Encephalopathy and Abnormal Neuronal Activity" Pediatric Epilepsy Research Symposium 2000, Seattle, WA, 9/00

2000

Speaker "The Role of the AMPA Receptor in Perinatal Brain Injury" Epilepsy Educator's Conference, New Orleans, LA, 11/00

2001

Chairperson and Speaker "Evolving Direction in the Management of Epilepsy" National Institutes of Neurological Diseases, Bethesda, MD, 2/01

2001

Snowbird Symposium "Glutamate Receptors and their Role in Hypoxic/Ischemic Brain Injury" Graduate Program in Neuroscience, University of Utah, 11/01

2002

Speaker "Mechanisms of Ischemic Brain Injury in the Developing Brain" Epilepsy Educators Conference, Miami, FL, 1/02

2002

Grand Rounds "Role of Glutamate Receptor Maturation in Perinatal Brain Injury" Baylor College of Medicine, Department of Neurology, Houston, TX, 3/02

2002

Speaker "Gene Array Analysis in Epilepsy: Application to animal models" National Institutes of Health/National Institute of Neurologic Disorders and Stroke, Bethesda, MD, 10/02

2003

Speaker "Models of Perinatal Brain Injury" Clinical Trials in Neuroprotection Conference, Key Biscayne, FL, 1/03

Speaker "Brain Injury in the Developing Brain" Epilepsy Educators Conference, Miami, FL, 1/03

2003

Neurobiology of Disease Workshop, Speaker "Neonatal Seizures and Neuroprotection" Society for Neuroscience 33rd Annual Meeting, New Orleans, LA, 11/03

2003

Symposium American Epilepsy Society, Speaker "Post-stroke Epilepsy: Neonatal ischemia and Seizures" American Epilepsy Annual Meeting, Boston, MA, 12/03

2003

Investigator's Workshop, Speaker and Moderator "Post-translational Modifications in Epileptogenesis" American Epilepsy Annual Meeting, Boston, MA, 12/03

2003

The Lennox Lecture, American Epilepsy Society, Speaker "Antiepileptogenesis and Neuroprotection: Where are We Going?" American Epilepsy Annual Meeting, Boston, MA, 12/03

2004

Epilepsy Educators' Conference, Speaker "Role of Glutamate receptors in Perinatal Brain Injury" Miami FL, 1/04

2004

Hot Topics in Epilepsy Conference, Speaker "The Role of Calcium Permeable AMPA Receptors in Perinatal Seizures" University of California, Irvine, 3/04

2004

Neurology Grand Rounds, Speaker "Maturational factors involved in perinatal brain injury" Northwestern University Medical School, Chicago, IL, 4/04

2004

Neurology Grand Rounds, Speaker "Role of glutamate receptor development in perinatal brain injury" University of Texas/Southwestern Medical Center, San Antonio, TX, 5/04

2004

United Cerebral Palsy Workshop, Speaker "Mechanisms of white matter injury in a model of periventricular leukomalacia" Asilomar Conference Center, Monterey, CA, 6/04

2004

American Epilepsy Society, Children's Hour, Speaker

"Mechanisms of neonatal seizures" American Epilepsy Society Annual Meeting, New Orleans, LA, 12/04.

2005

Antiepileptic Drug Trials VIII Conference, (University of Pennsylvania) Speaker and Panelist "Models of epileptogenesis available for drug screening: Pediatrics" Key Biscayne, FL 3/05

2005

"Age-specific mechanisms of injury in the developing brain"; Speaker, Research Seminar University of Alabama, Birmingham, AL 4/05

2005

Tuberous Sclerosis Alliance International Research Symposium, Speaker Epileptogenesis, Synaptic Plasticity, and Tuberous Sclerosis" Cincinnati, OH, 4/05

2005

American Epilepsy Society, Special Interest Group on Tuberous Sclerosis; Speaker "Abnormalities in Glutamate Receptors in Human Tuberous Sclerosis" AES Annual Meeting, Washington, DC, 12/05

2005

American Epilepsy Society, Special Interest Group on Translational Neuroscience; Speaker "New Targets for Antiepileptogenesis: Thinking outside the Box" AES Annual Meeting, Washington, DC, 12/05

2006

Medical College of Ohio Neurology Grand Rounds, Speaker "Glutamate receptors and their role in perinatal brain injury" Toledo, OH, 1/06

2006

University of Colorado Neurology Grand Rounds, Speaker "Age-specific mechanisms of neonatal seizures and perinatal brain injury" Denver, CO, 2/06

2006

University of San Francisco, Graduate Program in Neurosciences, Research Seminar, Speaker "Maturational factors contributing to perinatal brain injury and seizures" San Francisco, CA, 3/06

2006

Emory University, Neurology Department. Seminar Speaker "Developmental regulation of neurotransmission in the immature brain: Implications for neonatal seizure therapy" Atlanta, GA, 4/06

2006

University of California, Irvine, Neuroscience Program, Seminar Speaker "Impact of glutamate receptor development on the pathogenesis of perinatal brain injury", Irvine, CA 5/06

Hershey Medical Center Conference on Cerebral Palsy, Speaker "The Role of Excitotoxicity in Periventricular Leukomalacia", Princeton, NJ, 5/06

2006

Neurology Grand Rounds "Neonatal Neurology: Is the Bench Finally Coming to the Bedside?" Speaker, Grand Round, Massachusetts General Hospital, Boston, MA 6/06

2006

Children's Conference "Novel Mechanisms of Perinatal Brain Injury: Therapeutic Implications" Speaker, Children's Hospital, Seattle, University of Washington, Seattle, WA 7/06

2006

Epilepsy Conference "Epileptogenesis in the Developing Brain" Speaker, Harborview Hospital, Seattle, University of Washington, Seattle, WA 7/06

2006

Gordon Research Conference on Epilepsy "Developmental Factors Contributing to Epileptogenesis" Speaker, Colby College, Waterville, ME 8/06

2006

Newborn Brain Symposium "Novel approaches in neonatal seizures and therapy" Speaker, Washington University, St. Louis, MO 9/06

2006

Child Neurology Society 2006 Annual Meeting Symposium "Neonatal Neurology: Is the Bench Finally Coming to the Bedside?" Pittsburgh, PA, 10/06

2006

American Epilepsy Society 2006 Annual Meeting Investigator Workshop "Alterations in Neurotransmission in Tuberous Sclerosis" San Diego, CA, 12/06

2007

Dartmouth Medical School, Neuroscience Day Speaker "The Role of Glutamate Receptor Maturation in Perinatal Brain Injury" Hanover, NH, 2/07

2007

Curing Epilepsy II Conference "Mechanisms of Epileptogenesis: Translating Basic Mechanisms into Cures" NIH, Bethesda, MD, 3/07

2007

Neonatal Seizure Workshop "Pathophysiology of Seizures in the Neonatal Brain" "Antiepileptic therapies: Topiramate" NIH, Bethesda, MD, 6/07

2007

International Tuberous Sclerosis Alliance Meeting "Abnormal Neuronal Function in TSC" Annapolis, MD, 9/07

2007

American Neurological Association "The Hyperexcitable Brain: Mechanisms of Epileptogenesis in the Immature Brain" Washington, DC, 10/07

2007

American Epilepsy Society Presidential Symposium "Translational Therapeutics for Antiepileptogenesis" Philadelphia, PA 12/07

2007

American Epilepsy Society Merritt Putnam Symposium "Post-traumatic Epilepsy: A Case for Treatable Epileptogenesis" Symposium Chair Philadelphia, PA 12/07

2008

Museum of Science Life Science Lecture Series "A User's Guide to the Teenage Brain" Boston, MA 4/08

2008

Massachusetts Institute of Technology Learning and the Brain Conference "The Paradox of Learning in the Teenage Brain" Boston, MA 4/08

2008

Swebalius Lecturer, Yale University Medical Center, Department of Neurosurgery "Epileptogenesis in cortical dysplasias: A link to development" New Haven, CT 5/08

2008

Gordon Research Conference on Epilepsy "Post-translational mechanisms in epileptogenesis in the developing brain" Speaker, Colby College, Waterville, ME 8/08

2008

Newborn Brain Symposium "Neurotransmitters in the developing brain and their role in disease" Speaker, Washington University, St. Louis, MO 9/08

2008

Newborn Brain Symposium "Neonatal seizures and therapy" Speaker, Washington University, St. Louis, MO 9/08

2008

NIH Director's Pioneer Symposium "Understanding the cognitive consequences of early life epilepsy" Speaker, NIH, Bethesda, MD, 9/08

2008

Intramural Program, NINDS "Mechanisms of Epileptogenesis: Understanding the Epilepsy Spectrum Disorder" Speaker, NINDS, Bethesda, 10/08

2008

Child Neurology Society NINDS Neurobiology of Disease Symposium "Excitotoxic Mechanisms of White Matter Injury in the Premature Brain" Speaker, Santa Clara, CA 11/08

2008

Child Neurology Society Symposium "Mechanisms of Neonatal Seizures and Neuroprotection" Speaker, Santa Clara, CA 11/08

2008

Kellaway Lecture "Mechanisms of Epileptogenesis: Understanding the Epilepsy Spectrum Disorder" Baylor College of Medicine, Houston, TX 11/08

2008

National EpiFellows Conference "Mechanisms of Neonatal Seizures" Seattle, WA 12/08

2008

American Epilepsy Society Merritt Putnam Symposium "Cortical Dysplasias" Symposium Chair Seattle, WA 12/08

2008

American Epilepsy Society Investigator Workshop "Animal Models of Epilepsy" Seattle, WA 12/08

2008

American Epilepsy Society Basic Research Awards Lecture "Cognitive Comorbidities of Epilepsy" Seattle, WA 12/08

Winter Conference for Brain Research Symposium "Clinical translation: a role for NKCC1 transporter inhibitors in neonatal seizures" Copper Mountain, CO 1/09

2009

Jasper's Basic Mechanisms of Epilepsy Workshop "Post-translational mechanisms of epileptogenesis" Yosemite Valley, CA 3/09

2009

Wesleyan University Neuroscience Departmental Seminar "Age-Related Mechanisms of Perinatal Brain Injury" Middletown, CT 4/09

2009

Grass Lecturer, Society for Neuroscience CT Chapter "Epileptogenesis and Dysplasticity in the Developing Brain" Middletown, CT 4/09

2009

Lothman LectureUniversity of Virginia, "Synaptic Dysplasticity: Understanding the Cognitive Consequences of Early Life Epilepsy" Charlottesville, VA 5/09

2009

American Neurological Association Junior Faculty Development Workshop "The Do's and Don'ts of Grant Writing" Baltimore, MD 10/09

2009

Massachusetts Institute of Technology Learning and the Brain Conference "The Paradox of Learning in the Teenage Brain" Boston, MA 11/09

2009

American Epilepsy Society Merritt Putnam Symposium "Epilepsy Spectrum Disorder: Beyond the Seizures" Symposium Chair Boston, MA 12/09

2009

American Epilepsy Society Merritt Putnam Symposium, Lecturer "Diagnosis and Management of the Non-Ictal Components of Epilepsy" Boston, MA 12/09

2010

Winter Conference for Brain Research Novel Therapies for Epilepsy: Translating from Basic Neurobiology Breckenridge, CO 1/10

University of Pennsylvania Department of Neurology Grand Rounds "Epileptogenesis in the Immature Brain: Future Intervention Points" Philadelphia, PA 4/1/10

2010

National Institutes of Health, NINDS NINDS Workshop on Antiepileptogenesis "Translational strategies for antiepileptogenesis research" Bethesda, MD, 8/10

2010

American Neurological Association Chair, Neurobiology of Disease Symposium "Understanding the Connectome" San Francisco, CA, 9/10

2010

TEDMED Conference "What we can learn from children with epilepsy" San Diego, CA 10/10

2010

Society for Neuroscience Annual Meeting "How to write an NIH Grant" Professional Development Workshop, Chair and Speaker, 11/10

2010

"Early Detection of Epileptogenesis" Speaker, Investigators Workshop, American Epilepsy Society Annual Meeting, San Antonio, TX, 12/10

2010

"Interaction between Epilepsy and Autism" ILAE/Autism Speaks Workshop New York, NY, 12/10

2011

"Advances in Epilepsy" Institute of Medicine, Committee for IOM Report on Epilepsy Washington, DC, 1/11

2011

"Epilepsy Spectrum Disorder – Beyond the Seizures Roxbury Society for Medical Education, Boston, MA 2/11

2011

"Challenges in the development of antiepileptic therapies in the pediatric population" Antiepileptogenic Drug Workshop XI Miami, FL, 4/11

"The Neurobiological Consequences of War" Speaker and Chairperson One Mind for Research Symposium Boston, MA, 5/11

2011

"The role of neurotransmitters in brain development" Newborn Brain Symposium Washington University Medical School St. Louis, MO, 9/11

2011

"Neonatal seizures: treatment" Newborn Brain Symposium Washington University Medical School St. Louis, MO, 9/11

2011

"Careers in Neurology: Role of the Training Grant" NINDS Career Symposium Congress for Neurological Surgeons Washington, DC 9/11

2012

"Accelerating Translational Epilepsy Research" Epilepsy Pipeline Conference San Francisco, CA 2/12

2012

"Cognitive consequences of epilepsy" Neuroscience Seminar Series Brown University, RI 2/12

2012

"Neurobiology of Epilepsy" Neuroscience Seminar Series Vanderbilt University, TN 4/12

2012

"Institute of Medicine Report on Epilepsy: Implications for Practice" American Academy of Neurology Annual Meeting Special Symposium New Orleans, LA 4/12

2012

"The interaction between Epilepsy and Autism" Hot Topics Symposium, American Academy of Neurology Annual Meeting New Orleans, LA 4/12

2012 "Epilepsy and Autism" NIH-NINDS Workshop on Epilepsy Bethesda, MD 5/12

2012

Epilepsy Update NIH iCARE symposium Bethesda, MD 6/12

2012

"Epilepsy Spectrum Disorder: Beyond Seizures" The Philadelphia Neurological Society Philadelphia, PA, 11/12

2012

Presidential Symposium, Chairperson and Speaker "The Institute of Medicine Report on Epilepsy" American Epilepsy Society 2012 Annual Meeting San Diego, CA 12/12

2013

"The New Neurology" Neurology Grand Rounds University of Pennsylvania Philadelphia, PA 1/13

2013

New targets in the treatment of neonatal seizures Educational symposium American Academy of Neurology 2013 Annual Meeting San Diego, CA, 3/13

2013

Cognitive Comorbidities of Epilepsy: Epilepsy Spectrum Disorder Educational symposium American Academy of Neurology 2013 Annual Meeting San Diego, CA, 3/13

2013

Cognitive Comorbidities of Epilepsy, Chairperson Curing Epilepsy Conference 2013 National Institutes of Health, NINDS Bethesda, MD, 4/13

2013

"Cognitive consequences of Epilepsy" 2013 GW Institute for Neuroscience Symposium George Washington University, Washington, DC, 5/13

2013

"The Teen Brain Explained" Sprague Lecture, Mahoney Institute for Neurosciences Annual Symposium University of Pennsylvania Philadelphia, PA, 4/13

Epilepsy: Beyond the Seizures George Washington University Neuroscience Symposium Washington, DC, 4/13

2013

Translational advances in Epilepsy Research Antiepileptic Drug and Device Trials XII Symposium Epilepsy Therapy Development Project, Turnberry Isle, FL, 5/13

2013

Translational Medicine: How to access your department chair Lecture, Harvard Medical School Intensive Training in Translational Medicine Boston, MA, 6/13

2013

"New Frontiers in Neuroscience: Impact of Innovation and Integration" Inaugural Symposium, Institute of Medical Engineering and Science (IMES) Massachusetts Institute of Technology, Cambridge, MA 9/13

2013

"Epilepsy Beyond the Seizures: Shared Neurobiology of Epilepsy and its Cognitive Comorbidities" Neurology Grand Rounds Rutgers Medical School, New Brunswick, NJ, 10/13

2013

"How to Write a Grant" NINDS/ANA Career Development Symposium American Neurological Association Annual Meeting, New Orleans, LA, 10/13

2013

Chairperson, "The Impact of Genomics on Epilepsy" Neurobiology Symposium American Neurological Association Annual Meeting, New Orleans, LA, 10/13

2013

"Staging the Epilepsies" Hot Topic Symposium, American Epilepsy Society Annual Meeting Washington, DC, 12/13

2014

"Building Pathways Conference III" Third Research Symposium Westwood, CA 2/14

2014

"EpiBios Cellular and Molecular" Biomarkers Workshop UCLA, Los Angeles, CA 2/14

"The shared biology of epilepsy and its comorbidities" Neurology Grand Rounds Yale University School of Medicine, New Haven, CT, 3/14

2014

"Epilepsy and Cognitive Consequences: Shared mechanisms and treatment targets?" Neurology/Neurosurgery/Neuroscience Grand Rounds Temple University, Philadelphia, PA 4/14

2014

Research Career Development Symposium: How to Be Successful in Academic Neuroscience – Mentor and Group Leader Educational symposium American Academy of Neurology 2014 Annual Meeting Philadelphia, PA, 4/14

2014

"What Are They Thinking? How the Brain Develops from Infancy to Adolescence" Speaker Brain Fair – Philadelphia Science Festival Franklin Institute Philadelphia, PA, 4/14

2014

Recent Advances in Translational Research in Autism Speaker American Academy of Neurology 2014 Annual Meeting Philadelphia, PA, 4/14

2014

Neurology's Origin's in Philadelphia Co-Director for course American Academy of Neurology 2014 Annual Meeting Philadelphia, PA, 4/14

2014

Evidence for dysregulation of synaptic plasticity in early life epilepsy Speaker, Gordon Research Conference on Epilepsy Mt. Snow, Vermont, 8/14

2014

Working in teams: Implications for Translational Medicine Speaker, Harvard Medical School Intensive Training in Translational Medicine Cambridge, MA, 10/14

2014

Translational advances for treatment of neonatal seizures Speaker, Cell Symposium Washington, DC, 11/14

2014

The Teenage Brain: A Paradox in Transition Lecturer, Neurology Grand Rounds, Department of Neurology, University of Pennsylvania Philadelphia, PA, 11/14

2014

Epilepsy Spectrum Disorder: Implications for Patient Care, Research and Education Hoyer Lecture American Epilepsy Society Annual Meeting, Seattle, WA 12/14

2015

Mechanisms of epileptogenesis and epilepsy-related cognitive comorbidities Grand Rounds Speaker Neurology Department, University of Colorado, Denver, CO 2/15

2015

Shared Neurobiology of Epileptogenesis and the Cognitive Comorbidities of Epilepsy Neurology Grand Rounds Speaker Thomas Jefferson University Medical School, Philadelphia, PA 2/15

2015

Epilepsy Spectrum Disorder: Shared Neurobiology of Epileptogenesis and cognitive comorbidities Psychiatry Grand Rounds Speaker Rutgers-Robert Wood Johnson Medical School, Piscataway, NJ 4/15

2015

Women in Leadership Program American Academy of Neurology 2015 Annual Meeting, Washington, DC, 4/15

2015

Developmental Effects of Nicotine and Implications for Emerging Tobacco Products Meeting; Center for Disease Control and Prevention Expert Meeting Speaker, 5/15

2015

The Paradox of the Teenage Brain: How neurobiology reveals a window of opportunity and vulnerability" Conference Speaker Columbia University, Learning & the Brain educational conference on "Using Cognitive Science for 21st Century Schools", New York, NY 5/15

2015

"Explaining the Ever-Unpredictable Teenage Brain", Focus Lunchtime Seminar Keynote Speaker University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA 5/15

2015

Neurobiology of Epileptogenesis Neuroscience Retreat Keynote Speaker University of Michigan, MI, 6/15

Shared Neurobiology of Epileptogenesis and the Cognitive Comorbidities of Epilepsy Neurology Grand Rounds Speaker Columbia University, The Neurological Institute of New York, New York, NY 6/15

2015

Informed consent for IRB in adolescence: How developed is the brain Examining Mature Minor Consent for HIV Prevention Research Workshop (NIAID, NIMH, NICHD) NIH, 6/15

2015

Neurobiology of Epileptogenesis and the Cognitive Comorbidities of Epilepsy Neurology Grand Rounds Speaker George Washington University, Washington, DC 9/15

2015

"Epilepsy as a Spectrum Disorder" Smith College Neuroscience Seminar Smith College, Northampton, MA 9/15

2015

"The Biology of the Adolescent Brain" Smith College Science Seminar Smith College, Northampton, MA 9/15

2015

"Chairing a Neurology Department" ANA Career Development Course ANA 2015 Meeting, Chicago, IL 9/15

2015

"Meet the Expert" Society for Neuroscience Annual Meeting, Chicago, IL 10/15

2015

"Cognitive Consequences of Epilepsy" Grand Rounds Speaker University of Pittsburgh, Pittsburgh, PA, 11/15

2015

"Addressing Ethical Challenges for Enrolling At-Risk Adolescents in Research" Speaker Public Responsibility in Medicine and Research 2015 Annual Meeting, Boston, MA 11/15

2015

The Adolescent Brain" UNICEF Thought Leaders Series, Speaker UNICEF, NY, NY 11/15

2016

Raising Responsible, Successful and Fulfilled Children Guest Speaker

Mini University, Young Presidents Organization, Houston, TX 1/16

2016

The Teenage Brain: Planning for Success in High School, College and Beyond Speaker Virginia Festival of the Book Northside Library, Charlottesville, VA 3/16

2016

The Teen Brain Staff Lecture Society for Neuroscience, Washington, DC 3/16

2016

Epilepsy Spectrum Disorder: Shared Synaptic Mechanisms for Epileptogenesis and Cognitive Comorbidities Neurology Grand Rounds Lecture Mayo Clinic, Rochester, MN 3/16

2016

Shared Synaptic Mechanisms for Epileptogenesis and Cognitive Comorbidities Neurology Grand Rounds Lecture University of Maryland, MD 4/16

2016

Neurobiology of Adolescence Pediatric Grand Rounds Nemours Children's Hospital, Temple University, Philadelphia, PA, 6/16

2016

The teenage brain in college Presidential lecture American College Health Association Annual Meeting, San Francisco, CA 6/16

2016

"Adolescent brain, learning and higher education" 2016 Aspen Symposium Aspen Institute, Colorado 6/16

2016

Working in teams: Implications for Translational Medicine Speaker, Harvard Medical School Intensive Training in Translational Medicine Cambridge, MA, 9/16

2016

"Guiding Principles for Development of Neuroscience Service Lines" Association of University Professors in Neurology Seminar speaker American Neurological Association 2016 Annual Meeting, Baltimore, MD 10/16

2016

"Cognitive consequences of Epilepsy: Mechanisms" Annual Philip Dodge Lecture Washington University, St. Louis, MO 11/16

2016

"The Neurobiological basis for the unique strengths and weaknesses of the adolescent brain" Presidential Lecture Society for Neuroscience Annual Meeting, San Diego, CA 11/16

2017

Shared Neurobiology of Epileptogenesis and its Cognitive Comorbities Speaker Grand Rounds Harvard Longwood Medical Area Grand Rounds, Boston, MA 2/17

2017

"The Neurobiological basis for the unique strengths and weaknesses of the adolescent brain" Seminar, Department of Neurobiology Harvard Medical School, Boston, MA 2/17

2017

Neuropathology of Cognitive Comorbidities of Epilepsy Grand Rounds Speaker, Department of Pathology University of Pennsylvania, PA 2/17

2017

"Neurobiology of Epileptogenesis" Kirshner Lecture Vanderbilt university, TN 3/17

2017

Update on Autism and its Comorbidities Seminar Speaker and Chairperson American Academy of Neurology Annual Meeting, Boston, MA 4/17

2017

"Shared Neurobiology of Epileptogenesis and its Comorbidities" Grand Rounds Speaker Stanford University, Palo Alto, CA 5/17

International 1991

Investigator Workshop "Neonatal Oxygen Deprivation and Seizures" International Epilepsy Congress, IXX Meeting, Rio de Janeiro, Brazil, 10/91

1992

Symposium

"Seizures in the Developing Brain" Eastern EEG Association Annual Meeting, Montreal, Canada, 2/92

1994

Lecture "Animal Models Relevant to Human Epilepsies" ILAE Conference, Portugal, 9/94

1995

Lecture "The Role of the NMDA Redox Site in Stroke and Epilepsy" ILAE Conference, Corsica, 7/95

1995

Workshop On Epilepsy (WONOEP) Symposium "Animal Models of Epilepsy" International Epilepsy Congress, XXI Meeting, Sydney, Australia, 9/95

1996

Transgenic Models of Epilepsy Workshop, Lecture "Altered Gene Expression after Perinatal Hypoxia" International Epilepsy League, Venice, Italy, 10/1/96

1997

"Epileptogenic Effects of Perinatal Hypoxia" Brain Development and Childhood Epilepsy Conference, Strasbourg, France, 4/97

1997

WONOEP Symposium "Perinatal Hypoxic Encephalopathy and Epilepsy" International Epilepsy Congress, Dublin, Ireland, 6/97

1997

Lecture "Seizure-related Brain Damage" Focus on Epilepsy Conference, Montreal, Canada, 8/97

2001

WONOEP Symposium "Animal Models of Epilepsy: Modeling Neonatal Seizures" International Epilepsy Congress, XXII Meeting, Buenos Aires, Argentina, 5/01

2001

Scientific Symposium "Pathogenetic Mechanisms in Perinatal Brain Injury" International Epilepsy Congress, XXII Meeting, Buenos Aires, Argentina, 5/01

Neurology Grand Rounds "Pathogenic Mechanisms in Perinatal Brain Injury" Hospital for Sick Children, Toronto, Canada, 6/01

2002

Grand Rounds "Future Therapeutic Implication for Perinatal Brain Injury" Montreal Children's Hospital, McGill University, Montreal, Canada, 3/02

2002

Grand Rounds "Age-Specific Mechanisms of Perinatal Hypoxic/Ischemic Injury" Children's Hospital, Lavalle University, Quebec City, Canada, 3/02

2003

WONOEP Symposium "Early Alterations in Neurotransmitter Receptors Function and Expression Following Early Life Seizures" International Epilepsy Congress, XXIII Meeting, Lisbon, Portugal, 10/03

2004

National Academies/IOM U.S. National Committee, International Brain Research Organization. Speaker, Instructional Course, The Neurobiology of Epilepsy "Neonatal Seizures and Neuroprotection" Rhodes University, Grahamstown, South Africa, 9/04.

2005

31st Annual Meeting of the Society for Neuropediatrics, Keynote Speaker "Developmental Factors in Hypoxic Perinatal Brain Injury and Seizures" Erlangen, Germany, 4/05

2005

WONOEP symposium "Factors Influencing Seizure Susceptibility in the Neonatal Human Brain" Paris, France, 8/05

2006

International Symposium on Convulsive and non-convulsive status epilepticus (CSE) in childhood "Epileptogenesis in the Developing Brain" London, England, 10/06

2007

Pediatric Academic Societies Symposium "Premature Brain Injury, Unique Patterns, Outcomes and Mechanisms" Toronto, Canada, 4/07

2007

La Ciutat International Symposium on Translational Neuroscience "Unique therapies for anti-epileptogenesis in the developing brain" Marseilles, France 9/07

The Tizard Lecture, The Neonatal Society "Causes and Consequences of Neonatal Seizures" Durham, UK, 6/09

2009

Pediatric Brain Injury Symposium, Hospital for Sick Children "Impact of seizures on the immature brain" Toronto, Canada, 7/09

2009

Nordic Medical Research Council Symposium Early Development Brain Function "Challenges in the development of novel age-specific neonatal seizure therapies" Helsinki, Finland, 10/09

2010

"The Paradox of the Teen Brain: Debunking Myths with Fact" Montreal Neurological Institute, McGill University, Montreal, Canada, 6/10

2010

"Epilepsy Spectrum Disorder: Interaction of Mechanisms of Ictal an Non-Ictal Components" Donald Baxter Lecture, Montreal University Neurology Day, McGill University, Montreal, Canada, 6/10

2011

"Age determines injury mechanism in the perinatal brain" Pediatric Brain Injury Symposium, Hospital for Sick Children Toronto, Canada 7/11

2011

WONOEP Symposium "Post-translational mechanisms in epileptogenesis" Rome, Italy, 8/11

2011

International League Against Epilepsy 2011 Meeting "Epilepsy Destroys Lives: The North American Commission and the Institute of Medicine Efforts" Rome, Italy, 8/11

2012

European Epilepsy Meeting 2012 "Mechanisms of neonatal seizures" Chairperson London, England 9/12

2012

Translational Epilepsy Workshop "Future of epilepsy research" London, England, 9/12 International League Against Epilepsy 2013 Meeting "Mechanisms of Neonatal Seizures and New Therapies" Montreal, Canada, 6/13

2014

Chairperson, "A Roadmap Forward: Addressing the Challenges" Institute of Medicine Improving Access to Essential Medicines for Mental, Neurological and Substance Use Disorders in Sub-Saharan Africa: A Workshop Addis Abbaba, Ethiopia, 1/14

2014

"Epileptogenesis in the developing brain" San Servelo Venice Neuroscience Course Venice, Italy, 7/14

b. Professional and Educational National Leadership Roles: 2000-2003

Chair, Annual Meeting Committee American Epilepsy Society

2003-2006 Chair, Council on Education American Epilepsy Society

2003-2006

Chair, Continuing Medical Education Subcommittee Society for Neuroscience

2006-2007

Chair, Program Committee Society for Neuroscience

2007-2011

Chair, Merritt Putnam Symposium Committee American Epilepsy Society

2007-2008

Chair, Advocacy Committee American Epilepsy Society

2007-2010 American Epilepsy Society Executive Board Member

2007-2011 Society for Neuroscience Council Member

2008-2010 American Neurological Association

Nominating Committee

2009-2010

American Epilepsy Society Second Vice President

2010-2011

American Epilepsy Society Vice President, President-Elect

2011-2012 American Epilepsy Society President

3. Major Curriculum Offerings

1995-2001

Course Director Comprehensive Review and Update on Cerebrovascular Disease Harvard Continuing Medical Education

1999

Course Director Neurobiology 300 Graduate Seminar Series Division of Medical Sciences Harvard Medical School

2010-2012

Course Co-Director Intensive Course in Translational Medicine Harvard Medical School

E. Report of Clinical Activities

1. Description of clinical practice

1987-1991	Preceptor and Attending Resident's Outpatient Neurology Clinic Brigham and Women's Hospital, Boston, MA (weekly clinics)
1987-1991	Attending, Consult and Inpatient Service, Neurology West Roxbury VA Medical Center, West Roxbury, MA (1 month per year)
1987-2012	Attending, Neurology Outpatient Clinic Children's Hospital, Boston, MA (1 clinic per week)
1987-2012	Attending, Neurology Outpatient Clinic Brigham and Women's Hospital, Boston, MA (1 clinic per week)
1991-2006	Attending, Consult and Ward Service, Neurology (1month per year) Brigham and Women's Hospital, Boston, MA
1994-1996	Director, Cerebrovascular Service, Department of Neurology Brigham and Women's Hospital, Boston, MA

2000-2012	Preceptor, Resident Clinic, Neurology Outpatient Clinic Department of Neurology, Brigham and Women's Hospital, Boston, MA
2013	Preceptor, Resident Clinic, Neurology Outpatient Clinic Hospital of the University of Pennsylvania Perelman School of Medicine, Philadelphia, PA
2014-	Attending, Consult Service Hospital of the University of Pennsylvania Pereleman School of Medicine, Philadelphia, PA

PART III: BIBLIOGRAPHY

Original Articles (* denotes first author trainee of Dr. Jensen)

- 1. Spinelli DN, **Jensen FE**. Plasticity: The mirror of experience. Science 1979;203:75-78. (PMID758683)
- 2. Spinelli DN, **Jensen FE**, Viana Di Prisco G. Early experience effect on dendritic branching in normally reared kittens. ExpNeurol 1980;68:1-11.(PMID7363979)
- 3. Duffy FH, **Jensen FE**, Erba G, Burchfiel JL, Lombroso CT. Extraction of clinical information from EEG background activity -the combined use of BEAM and intravenous sodium thiopental. Ann Neurol 1984;15:22-30.
- 4. **Jensen FE**, Harris KH. Preservation of neuronal ultrastructure in hippocampal slices using rapid microwave enhanced fixation. J Neurosci Meth 1989;29:217-230.
- 5. **Jensen FE**, Applegate CD, Holtzman D, Belin T, Burchfiel J. Epileptogenic effects of hypoxia in immature rodent brain. Ann Neurol 1991;29(6):629-637.
- 6. **Jensen FE**, Applegate CD, Burchfiel J, Lombroso CT. Differential effects of perinatal hypoxia and anoxia on long term seizure susceptibility in the rat. Life Sci 1991;49:399-407.
- 7. **Jensen FE**. Short Note Rapid microwave fixation of brain tissue for electron microscopy. Eur J Morphol 1991;29(3):210-212.
- 8. Harris KM, **Jensen FE**, Tsao BS. Comparison of dendritic spines and synapses in area CA1 of the rat hippocampus at postnatal day 15 and adults, with implications for the maturation of long term potentiation. J Neurosci 1992;12(7):2685-2705.
- 9. Chen H-S*, Pelligrino J, Aggarwal S, Lei S, Warach S, **Jensen FE**, Lipton SA. Memantine: Open channel block of NMDA elicited response and its therapeutic advantage. J Neurosci 1992;12(11):4427-4436.
- 10. **Jensen FE**, Holmes G, Lombroso CT, Blume H, Firkusny I. Age dependent long term changes in seizure susceptibility and neurobehavior following hypoxia in the rat. Epilepsia 1992;33(6):971-980.
- 11. **Jensen FE**, Firkusny I, Mower G. Differences in c-fosimunoreactivity due to age and mode of seizure induction. Mol Br Res 1993;17:185-193.

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Educational Material

Syllabi:

2001-2002 Evo	lving Directions in the Management of Epilepsy. Presented by The National Institute of Neurological Disorders and Stroke of the National Institutes of Health, jointly sponsored by the University of Cincinnati and SynerMed Communications in cooperation with the American Epilepsy Society, American Academy of Neurology, and Epilepsy Foundation.			
2004	Neuroprotection and Seizures in the Developing Brain. Cyber Seminar based on 2003 SFN Neurobiology of Disease Workshop.			
2004	Neonatal Seizures. Michael J. Bresnan Child Neurology Course, Children's Hospital Boston and Harvard Medical School.			
2006	Neonatal Seizures. Learning and Memory in the Adolescent Brain. Mechanisms of Epilepsy.Michael J. Bresnan Child Neurology Course, Children's Hospital Boston and Harvard Medical School.			
2008	The Adolescent Brain. Mechanisms of Neonatal Seizures.Michael J. Bresnan Child Neurology Course, Children's Hospital Boston and Harvard Medical School.			
2008	Merritt Putnam Symposium: Post-Traumatic Epilepsy. Ed. Jensen, FE. Epilepsia			
2009	Merritt Putnam Symposium: Cortical Dysplasias. Ed. Jensen, FE. Epilepsia			
2009	Harvard Medical School Intensive 2010 Course in Translational Medicine : online syllabus			
2009	Merritt Putnam Symposium: Epilepsy Spectrum Disorder: Epilepsia			
2010	Harvard Medical School Intensive 2011 Course in Translational Medicine : online syllabus			
2012	Harvard Medical School Intensive 2011 Course in Translational Medicine :online syllabus			
2012	Harvard Medical School Intensive 2012 Course in Translational Medicine :online syllabus			

	2013	Harvard Medical School Intensive 2013 Course in Translational Medicine :online syllabus					
Briefs			e United States Supr				
	2009		t at 2009, Terrance Jamar Graham v State of Florida, No. n v State of Florida, No. 08-7621				
	2012	Brief of Petitioner-Appellant at 2012, Evan Miller v State of Alabama, No. 10-9646, Kuntrell Jackson v State of Arkansas, No. 10-9647					
Feder	al Drug Admini	stration	- Investigation New	Drug Approvals			
	2008	neonata trials.g	al seizures. IND #101	rug -Sponsor (Jensen): Bumetanide for the treatment of 1690 (Approved- 4/08) (clinical hanged to Janet Soul, MD when Dr. Jensen moved to			
Paten	ts		·				
1.	~ ~			s For Modulating Brain Damage"			
	Application No 6921775).	Filing Date Issued 7/26/05	<u>Status</u>			
2.	Application title: "White Matter NeuroprotectantPyrroloquinoline Quinone Compounds and Methods of Use Thereof"						
	Application No).	Filing Date	Status			
	60/383,489		5/24/02 Expired				
3.	Application title: "Method For Treating And Controlling The In-Vivo Effects Of Hypoxia-Induced Seizures in a Perinatal Subject"						
	Application No.		Filing Date	Status			
	60/466,987		05/01/03	Expired			
4.	Application title; "Chloride Ion Uptake Modulators and Uses Thereof"						
	Application No.		Filing Date	Status			
	11/464,977		08/16/06	Abandonment Pending			
5.	Application title, "Transcranial magnetic stimulation (TMS) methods and apparatus"						
	Application No).	Filing Date	Status			
	12/312,931		6/1/09	Pending			
6.	Application title, "Treating post seizure patients"						
	Application No.		Filing Date	Status			
	US 12, 688,892	2	1/17/10 Pending				
7.	Application title, "Use of NKCC1 inhibitors for Vigabatrin toxicity"						
	Application No).	Filing Date	Status			
	US 61/318,352		03/28/10	Expired			
	US13/069,311		03/22/11	Pending			
	PCT/US11/294	67	03/22/11				

- Application title: "Treating neonatal seizure with polo-like kinase 2 (PLK2) signaling enhancers" <u>Application No. Filing Date Status</u> 61/658,894 2012 Filed
- 9.Application title: "Treating epilepsy with Trk B receptor modulators"
Application No. Filing Date Status
CMC2397 2012 Pending