
Professor Alon Friedman

Correspondence language: English

Sex: Male

Date of Birth: 10/09

Canadian Residency Status: Permanent Resident

Permanent Residency Start Date: 2016/02/08

Country of Citizenship: Israel

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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Personal	http://medicine.dal.ca/departments/department-sites/medical-neuroscience/our-people/our-faculty/alon http://fohs.bgu.ac.il/neurophysio/about.shtml
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This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.



Protected when completed

Professor Alon Friedman

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
Hebrew	Yes	Yes	Yes	Yes	No

Degrees

1985/10 - 1991/9	<p>Doctorate, PhD, Neuroscience, Ben-Gurion University of the Negev</p> <p>Degree Status: Completed</p> <p>Thesis Title: Active and Passive Properties of Neocortical Neurons and Their Role in Determining Neuronal Firing Pattern</p> <p>Research Disciplines: Neurosciences</p> <p>Supervisors: Professor Michael Gutnick, 1985/8 - 1991/9</p>
1985/8 - 1991/6	<p>Doctorate, Medicine, Health Sciences, Ben-Gurion University of the Negev</p> <p>Degree Status: Completed</p> <p>Research Disciplines:</p> <p>Fields of Application:</p>
1982/10 - 1985/7	<p>Bachelor's, Bachelor of Science, Medical Sciences, Ben-Gurion University of the Negev</p> <p>Degree Status: Completed</p>

Recognitions

2014/7	<p>The Dennis Chair in Epilepsy Research</p> <p>Dalhousie University</p> <p>Distinction</p> <p>Chair in Neurology</p> <p>Areas of Research: Convulsive Disorders/ Epilepsy</p> <p>Research Disciplines: Neurosciences</p> <p>Fields of Application: Pathogenesis and Treatment of Diseases</p>
2013/1	<p>Dr. Helena Rachmanska-Putzman Chair in Neurology</p> <p>Ben-Gurion University of the Negev</p>
2009/1	<p>The Moritz Heinrich Romberg Visiting Professorship</p> <p>Charite Medical University , Stroke Center</p>
2009/1	<p>The Students Excellency Award for Teaching</p> <p>Ben-Gurion University of the Negev</p>

2009/1 - 2009/12	Mercator Program for Visiting Professorships at German Universities Charite Medical University Prize / Award
2007/1 - 2007/12	The Michael Prize for Epilepsy Research The Stiftung Michael Foundation Prize / Award
2001/1 - 2001/12	The APS Kass Award for Medical Research The American Physicians Fellowship for Medicine in Israel Prize / Award
2000/1	The Zigler Prize for Original Research The Israeli Institute of Technology, The Bruce Rappaport Faculty of Medicine,
1997/1	Foulkes Research Award for the Contribution of Scientific Research to Medicine Foulkes Foundation
1997/1 - 1997/12	The Teva Research Prize for Young Investigators Teva Pharmaceuticals Prize / Award
1991/1	The Volunteer Award The Association for Civil Rights in Israel
1986/1 - 1988/12	Goulton Award Ben-Gurion University of the Negev

User Profile

Researcher Status: Researcher

Research Career Start Date: 1985/07/01

Engaged in Clinical Research?: Yes

Research Interests: Epilepsy Blood-Brain Barrier Stroke Traumatic Brain Injury

Fields of Application: Pathogenesis and Treatment of Diseases

Disciplines Trained In: Neurosciences

Countries:

Areas of Research: Convulsive Disorders/ Epilepsy

Research Specialization Keywords: Epilepsy, Blood-Brain Barrier, Animal Model of Stroke Neurophysiology, Astrocytic Function, Neuro-Vascular Interactions

Research Centres: Dalhousie University

Research Disciplines: Neurosciences

Employment

2014/7	Full Professor holding The Dennis Chair in Epilepsy Research Medical Neuroscience, Medicine, Dalhousie University Full-time, Professor Tenure Status: Tenure, 2014/7 - Fields of Application: Pathogenesis and Treatment of Diseases Areas of Research: Convulsive Disorders/ Epilepsy Research Disciplines: Neurosciences
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2012/1	Full Professor Department of Physiology and Cell Biology, Medicine, Ben-Gurion University of the Negev Full-time
2009/1 - 2012/12	Visiting Professorship Neurophysiology, Medicine, Charite Medical University Full-time
2008/1 - 2012/12	Associate Professor Department of Physiology, Medicine, Ben-Gurion University of the Negev Full-time
2004/10 - 2005/9	Senior Resident Department of Neurosurgery, Soroka University Medical Center Full-time
2003/1 - 2004/12	Senior Lecturer Neurosurgery and Physiology, Medicine, Ben-Gurion University of the Negev Full-time
2002/7 - 2004/12	Guest Scientist Neurophysiology, Medicine, Charite Medical University Full-time
1996/6 - 2001/2	Residency Department of Neurosurgery, Soroka University Medical Center Beer-Sheva Full-time
1997/1 - 1997/12	Lecturer Neurosurgery and Physiology, Medicine, Ben-Gurion University of the Negev Full-time

Affiliations

The primary affiliation is denoted by (*)

(*) 2014/7 The Dennis Chair in Epilepsy Research, Medical Neuroscience, Dalhousie University

Research Funding History

Awarded [n=15]

2016/7 - 2021/6 Microvascular injury and blood-brain barrier dysfunction as novel biomarkers and targets
Principal Applicant for treatment in traumatic injury, Grant, Operating
Clinical Research Project?: Yes

Funding by Year:

2016/7 - 2021/6 Total Funding - 955,625 (Canadian dollar)
Portion of Funding Received - 955,625 (Canadian dollar)
Time Commitment: 20

Funding Sources:

2016/7 - 2021/6 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 955,625 (Canadian dollar)
Portion of Funding Received - 955,625 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2015/10 - 2020/9 Principal Applicant	<p>The Blood-Brain Barrier as a Target for the Diagnosis and Treatment of Acquired Brain Injuries, Grant, Operating</p> <p>Funding Sources:</p> <p>2015/10 - 2020/9 Israel Science Foundation (Israel) Regular Research Program Total Funding - 2,300,000 (Israeli new sheqel) Funding Competitive?: Yes</p>
2015/9 - 2018/8 Principal Investigator	<p>The Role of Blood-Brain Barrier Dysfunction and TGF-beta Mediated Signaling in Post-Traumatic Epileptogenesis, Grant, Establishment Clinical Research Project?: No</p> <p>Research Settings: Canada (Urban)</p> <p>Research Disciplines: Neurosciences</p> <p>Areas of Research: Convulsive Disorders/ Epilepsy</p> <p>Fields of Application: Biomedical Aspects of Human Health</p> <p>Funding by Year:</p> <p>2015/9 - 2018/8 Total Funding - 144,851 (Canadian dollar) Portion of Funding Received - 144,851 (Canadian dollar)</p> <p>Funding Sources:</p> <p>2015/9 - 2018/8 Nova Scotia Health Research Foundation (NSHRF) Establishment Total Funding - 144,851 (Canadian dollar) Portion of Funding Received - 144,851 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes Funding Reference Number: 145</p>
2013/1 - 2017/12 Principal Investigator	<p>Targets and biomarkers for anti epileptogenesis, Grant, Operating</p> <p>Research Disciplines: Neurosciences</p> <p>Areas of Research: Convulsive Disorders/ Epilepsy</p> <p>Fields of Application: Pathogenesis and Treatment of Diseases</p> <p>Funding Sources:</p> <p>2013/1 - 2017/12 7th Framework Programme: Collaborative Project EPITARGET Total Funding - 300,000 (Euro) (Euro) Funding Competitive?: Yes</p>
2014/10 - 2017/9 Co-investigator	<p>Transforming Growth Factor Beta Signaling Following Traumatic Brain Injury as a Target for the Prevention of Acquired Epilepsy., Grant, Operating</p> <p>Funding Sources:</p> <p>2014/10 - 2017/9 CURE Foundation, USA Cure for Epilepsy Total Funding - 250,000 (United States dollar) Funding Competitive?: Yes</p> <p>Co-applicant : Daniela Kaufer</p>
2016/4 - 2017/4 Principal Applicant	<p>Customization, implementation and testing of an image analysis algorithm in regards to UWFFA data, Grant, Operating</p>

Funding Sources:

2016/4 - 2017/4 Brain Repair Center Dalhousie
 Knowledge Translation Grant
 Total Funding - 30,000 (Canadian dollar)
 Portion of Funding Received - 30,000 (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2014/1 - 2016/12 Structural and functional connectivity alterations in stress exposed individuals, Grant
 Co-applicant

Funding Sources:

2014/1 - 2016/12 Israel Ministry of Health
 Regular Research Program
 Total Funding - 300,000 (Israeli new sheqel)
 Funding Competitive?: Yes

2014/1 - 2016/12 The role of blood-brain barrier dysfunction and albumin-induced TGF-beta signaling in
 Co-investigator neuronal plasticity and associated network modifications, Grant, Operating

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Fields of Application: Pathogenesis and Treatment of Diseases

Funding Sources:

2014/1 - 2016/12 German Science Foundation (DFG)
 Research
 Total Funding - 313,000 (Euro) (Euro)
 Funding Competitive?: Yes

Co-investigator : Uwe Heinemann

2013/1 - 2015/12 German Science Foundation (DFG) trilateral program, Grant, Operating
 Co-investigator Clinical Research Project?: Yes
 Project Description: Victims of War: Contribution of the Cholinergic System to the
 Development of PTSD in Palestine and Israel

Research Settings: Israel, Germany

Funding Sources:

2013/1 - 2015/12 German Science Foundation
 Trilateral Program
 Total Funding - 300,000 (Euro) (Euro)
 Funding Competitive?: Yes

Co-investigator : Clemens Kirschbaum; Hadar Shalev; Hermona Soreq; Mohammed
 A.M.Shaheen

2012/1 - 2015/12 Spreading Depolarization in Small Vessel Disease, Grant, Operating
 Co-investigator

Funding Sources:

2012/1 - 2015/12 ERA-NET
 SDSVD European Research Projects on Cerebrovascular diseases
 Total Funding - 60,000 (Euro) (Euro)
 Funding Competitive?: Yes

Co-investigator : Brian MacVicar; Jens Dreier

2014/12 - 2015/12 The Role of the Blood-Brain Barrier Dysfunction in Acquired Epilepsy, Grant, Equipment
 Principal Investigator Clinical Research Project?: No

Research Settings: Canada (Urban)

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Funding Sources:

2014/12 - 2015/12 Canada Foundation for Innovation (CFI)
 John Evans Leaders fund
 Total Funding - 493,527 (Canadian dollar) (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes
 Funding Reference Number: 32806

2014/11 - 2015/10 TGF-beta Mediated Inflammatory Signaling: a critical role in epileptogenesis, Grant
 Co-investigator

Funding Sources:

2009/1 - 2012/1 National Institute of Health (RO1)
 Neurology / epileptology
 Total Funding - 494,000 (United States dollar)
 Funding Competitive?: Yes

Principal Applicant : Daniela Kaufer

2014/7 - 2015/6 In-vivo Seizure Recording, Grant, Equipment
 Principal Investigator Clinical Research Project?: No

Research Settings: Canada (Urban)

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Funding by Year:

2014/7 - 2015/6 Total Funding - 30,000 (Canadian dollar)
 Portion of Funding Received - 30,000 (Canadian dollar)

Funding Sources:

2014/6 - 2015/5 Dalhousie Medical Research Foundation (The)
 DMRF
 Total Funding - 30,000 (Canadian dollar)
 Funding Competitive?: Yes

2010/1 - 2014/12 Neurovascular coupling in the injured brain: Does blood-brain-barrier breakdown play a
 Principal Investigator role in disturbed neurovascular coupling and associated damage?, Grant, Operating
 Clinical Research Project?: No

Funding Sources:

2010/1 - 2014/12 German-Israeli Foundation (GIF)
 Life Sciences
 Total Funding - 192,000 (Euro)
 Portion of Funding Received - 192,000 (Euro)
 Funding Renewable?: No
 Funding Competitive?: Yes

2011/1 - 2014/12 Blood-brain barrier opening underlying neural network dysfunction: the role of TGF-beta
 Principal Investigator signaling in synaptic plasticity, heterosynaptic interactions and epileptogenesis., Grant,
 Operating

Funding Sources:

2011/1 - 2014/12 Israel Science Foundation (Israel)
ISRAEL SCIENCE FOUNDATION
Total Funding - 240,000 (United States dollar)
Funding Competitive?: Yes

Completed [n=23]

1998/1
Principal Applicant Electrophysiological and molecular consequences following long-lasting cholinergic imbalance in the mouse brain \$30,000, Grant, Operating
Clinical Research Project?: No

Funding Sources:

1998/1 Israel Defence Forces, Medical Corps (United States dollar)
(Canadian dollar)
Funding Renewable?: No
Funding Competitive?: No

1998/1
Principal Applicant Research Achievement Grant \$5000, Grant, Operating
Clinical Research Project?: No

Funding Sources:

1998/1 The Zlotowski Center for Neuroscience, Ben-Gurion University
(United States dollar)
Funding Renewable?: No
Funding Competitive?: No

1998/1
Principal Applicant Cholinergic transmission in the hippocampus following stress 60,000NIS, Grant, Operating
Clinical Research Project?: No

Funding Sources:

Israel Health Ministry
Funding Renewable?: No
Funding Competitive?: Yes

2010/1 - 2013/12
Principal Investigator The potenial effect of transcranial magnetic stimulation on blood-brain barrier permeability.
A feasibility study. \$25,000, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2010/1 - 2011/1 Brainsway Ltd.
TMS in pre-clinical studies
Total Funding - 25,000 (United States dollar)
Portion of Funding Received - 25,000 (United States dollar)
Funding Renewable?: No
Funding Competitive?: No

2010/1 - 2012/12
Co-investigator Discharge-1: Depolarisations in ischaemia after subarachnoid haemorrhage-1, Grant,
Operating
Clinical Research Project?: No
Research Settings: Germany

Funding Sources:

2010/1 - 2012/12 DFG Deutsche-Forschung Gemeinschaft
 Medical Research
 Total Funding - 65,000 (Euro) (Euro)
 Funding Renewable?: No
 Funding Competitive?: Yes

Co-investigator : Jens Dreier

2008/1 - 2012/12 The role of TGF-beta in injury-related neocortical epileptogenesis, Grant, Operating
 Co-investigator Research Settings: United States

Funding Sources:

2008/1 - 2012/12 United States - Israel Binational Science Foundation
 Life Sciences
 Total Funding - 180,000 (United States dollar) (United States dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

Co-investigator : Daniela Kaufer

2008/1 - 2012/12 Temporal Lobe Epileptogenesis: Role of Blood-Brain Barrier Disruption, Albumin and TGF
 Co-investigator beta in Generation of Temporal Lobe Epilepsy, Grant, Operating
 Research Settings: Germany (Urban)

Funding Sources:

2008/1 - 2012/12 DFG-SFB TR/3 (C8, Deutsche-Forschung Gemeinschaft)
 Research
 Total Funding - 440,400 (Euro)
 Portion of Funding Received - 440,400 (United States dollar)
 Funding Competitive?: Yes

Co-investigator : Uwe Heinemann

2011/1 - 2012/12 The effect of transcranial magnetic stimulation on BBB permeability \$150,000, Grant,
 Principal Applicant Operating

Funding Sources:

2011/1 - 2012/1 Brainsway Ltd.
 Total Funding - 150,000 (United States dollar) (United States dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2009/1 - 2012/12 TGFbeta signaling in epileptogenesis, Grant, Operating
 Co-investigator

Funding Sources:

2009/1 - 2012/12 National Institute of Health (NIH ROI NS066005)
 Neurology / epileptology
 Total Funding - 400,000 (United States dollar) (United States dollar)
 Funding Competitive?: Yes

Co-investigator : Daniela Kaufer

2007/1 - 2011/12 Astrocytic basis of epileptogenesis: Possible role of albumin and TGF-beta receptors,
 Principal Investigator Grant, Operating
 Clinical Research Project?: No

Funding Sources:

2007/1 - 2011/12 Israel Academy of Science
 Life Sciences - Neurology
 Total Funding - 240,000 (United States dollar)
 Portion of Funding Received - 240,000 (United States dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes
 Funding Reference Number: 566/07

2010/1 - 2011/12 Victims of War: Contribution of the Cholinergic System to the Development of PTSD in
 Co-investigator Children and Adolescents in Palestine and Israel, Grant, Operating
 Research Settings: , Germany

Funding Sources:

2010/1 - 2011/1 German Science Foundation (DFG)
 Trilateral Program
 Total Funding - 500,000 (Euro)
 Funding Competitive?: Yes

Co-investigator : Abdel Aziz Mousa Thabet; Clemens Kirschbaum; Hadar Shaev;
 Hermona Soreq; Mohammed A M Shaheen; Najah Mahmoud Al-Khatib

2009/1 - 2010/12 Brain processing of emotions in post traumatic stress disorder: Correlation with inherited,
 Principal Investigator RNA-mediated and protein biomarkers. \$22,000, Grant, Operating
 Clinical Research Project?: Yes

Funding Sources:

2009/1 - 2010/12 Israel Health Ministry
 Total Funding - 22,000 (United States dollar)
 Portion of Funding Received - 22,000 (United States dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2008/1 - 2009/12 Prevention of Epilepsy After Traumatic Brain Injury, Grant, Operating
 Co-investigator Research Settings: United States

Funding Sources:

2008/1 - 2009/1 Citizens United for Research in Epilepsy in partnership with the
 United States Department of Defence
 TBI
 Total Funding - 149,000 (United States dollar) (United States dollar)
 Funding Competitive?: Yes

Co-investigator : Daniela Kaufer

2008/1 - 2009/1 The role of SPG stimulation on cerebral blood flow and BBB permeability \$100,000, Grant,
 Principal Investigator Operating
 Clinical Research Project?: No

Funding Sources:

2008/1 - 2009/12 Brainsgate Company
 Total Funding - 100,000 (United States dollar)
 Portion of Funding Received - 100,000 (United States dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2004/1 - 2008/12 Cholinergic transmission in mesial temporal lobe epilepsies, Grant, Operating

Co-investigator	<p>Clinical Research Project?: No</p> <p>Project Description: Cholinergic transmission in mesial temporal lobe epilepsies</p> <p>Research Settings: Germany</p> <p>Funding Sources:</p> <p>2004/1 - 2008/12 DFG-SFB TR/3 (B9, Deutsche-Forschung Gemeinschaft)</p> <p> SFB TR3</p> <p> Total Funding - 369,400 (Euro) (Euro)</p> <p> Funding Renewable?: No</p> <p> Funding Competitive?: Yes</p> <p>Co-investigator : Uwe Heinemann</p>
2005/1 - 2008/12 Co-investigator	<p>The role of the blood-brain barrier disruption in cerebral cortex dysfunction, Grant, Operating</p> <p>Research Settings: Germany</p> <p>Funding Sources:</p> <p>2005/1 - 2008/12 SFB 507 (C9, Deutsche-Forschung Gemeinschaft)</p> <p> SFB 507</p> <p> Total Funding - 220,500 (Euro) (Euro)</p> <p> Funding Renewable?: No</p> <p> Funding Competitive?: Yes</p> <p>Co-investigator : Uwe Heinemann</p>
2006/1 - 2008/12 Co-investigator	<p>Can spreading depression be initiated via disturbance at the blood-brain barrier?, Grant, Operating</p> <p>Research Settings: Germany</p> <p>Funding Sources:</p> <p>2006/1 - 2008/12 German-Israeli Foundation (GIF)</p> <p> Life Sciences</p> <p> Total Funding - 200,000 (Euro) (Euro)</p> <p> Funding Renewable?: No</p> <p> Funding Competitive?: Yes</p> <p>Co-investigator : Jens Dreier</p>
2005/1 - 2008/12 Co-investigator	<p>Neurogenomic approach to characterize individual response to stressful life experience</p> <p>1,500,000 NIS, Grant, Operating</p> <p>Clinical Research Project?: Yes</p> <p>Funding Sources:</p> <p>2005/1 - 2008/12 Israeli Ministry of Sciences (Israeli new sheqel) (Israeli new sheqel)</p> <p> Funding Renewable?: No</p> <p> Funding Competitive?: Yes</p> <p>Co-investigator : Prof.Hermona Soreq; Talma Hendler; Yaniv Assaf</p>
2005/1 - 2006/12 Principal Applicant	<p>Interactions within the neurovascular unit:towards new targets for the prevention and treatment of common neurological diseases \$50,000, Grant, Operating</p> <p>Clinical Research Project?: No</p>

Funding Sources:

2005/1 - 2006/12 The Rich Foundation: Rich Initiative for Excellence in the Negev
(United States dollar) (United States dollar)
Funding Renewable?: No
Funding Competitive?: Yes

1999/1 - 2003/12
Co-investigator

Genetic and epigenetic mechanisms underlying acute and delayed neurodegenerative consequences of stress and anticholinesterase exposure, Grant
Clinical Research Project?: No

Funding Sources:

1999/1 - 2003/12 US Army Research Grant (United States dollar) (United States dollar)
Funding Renewable?: No
Funding Competitive?: Yes

Co-investigator : Prof. Hermona Soreq

2002/1 - 2002/12
Principal Investigator

Electrophysiological responses to blood brain barrier disruption in the rat barrel cortex, Grant, Operating
Clinical Research Project?: No

Funding Sources:

German Israel Foundation
Young Scientist Program
Total Funding - 40,000 (Euro) (Euro)
Funding Renewable?: No
Funding Competitive?: Yes

1998/1 - 1999/12
Co-applicant

The role of cholinergic inputs in cortical development \$60,000, Grant
Clinical Research Project?: No

Research Settings: United States (Urban)

Funding Sources:

1998/1 - 1999/12 United States - Israel Binational Science Foundation (United States dollar) (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes
Funding Reference Number: 97-00174

Co-applicant : Professor Asaf Kellar

1996/1 - 1996/12
Principal Applicant

Electrophysiological and post-transcriptional features of congenital and drug-induced cholinergic imbalance: use of mouse septo-hippocampal slices \$5000, Grant, Operating
Clinical Research Project?: No

Research Settings: Israel (Urban)

Funding by Year:

1996/1 - 1996/12 (United States dollar) (United States dollar)

Funding Sources:

1996/1 - 1996/12 The National Institute for Psychobiology
The Charles Smith Laboratory for Collaborative Research (United States dollar) (United States dollar)
Funding Renewable?: No

Courses Taught

2015/02/07	Guest Lecturer, Latin America Summer School on Epilepsy Course Topic: epilepsy Course Level: Post Graduate Academic Session: Winter Guest Lecture?: Yes
2014/05/06	Guest Lecturer, Neuroscience, Venice International University, San Servolo Course Title: Bridging Basic with Clinical Epileptology Course Topic: Epilepsy Course Level: Graduate Section: Epilepsy Summer course Academic Session: Summer Guest Lecture?: Yes
2012/01/01	Coordinator / Teacher, Ben-Gurion University of the Negev Course Title: Core course in Cellular Neuroscience Course Level: Undergraduate
2011/07/06	Guest Lecturer, Mario Negri Institute Course Title: The Blood-Brain Barrier, Immune Response and Seizures Course Level: Graduate Guest Lecture?: Yes
2011/06/07	Guest Lecturer, Neuroscience, Venice International University, San Servolo Course Title: Bridging Basic with Clinical Epileptology Course Topic: Epilepsy Course Level: Graduate Section: Epilepsy summer course Academic Session: Summer Guest Lecture?: Yes
2011/04/08	Guest Lecturer, Stanford University Course Title: From Status Epilepticus to Spontaneous Seizures: A Potential Role for Blood-Brain (dis)Communication in Epileptogenesis Course Level: Graduate Guest Lecture?: Yes
2011/01/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Core course in Neuroscience Course Topic: Neuroscience Course Level: Graduate
2010/11/19	Guest Lecturer, Turkish Epilepsy Society Course Title: Interactions within the Neurovascular Unit in Normal and Pathological Plasticity Course Level: Graduate Guest Lecture?: Yes
2010/11/02	Guest Lecturer, Turkish Epilepsy Society Course Title: Mechanisms Underlying Epileptogenesis Following Brain Injury Course Level: Graduate Guest Lecture?: Yes

2009/11/14	Guest Lecturer, Institute of Neurology, University College of London Course Title: The Blood-Brain Barrier and Epilepsy: When the Hen Breaks the Egg Course Level: Graduate Guest Lecture?: Yes
2009/11/03	Guest Lecturer, Dresden University Course Title: Post-Traumatic Stress Disorder: From Cell to Network to Human Disease Course Level: Graduate Guest Lecture?: Yes
2009/04/02	Guest Lecturer, Institute of Neurology, University College of London Course Title: Imaging the Blood-Brain Barrier: From Animal Experiments to Clinical Applications Course Level: Graduate Guest Lecture?: Yes
2009/01/01	Teacher, The Hebrew University of Jerusalem Course Title: Pathophysiology of Brain Disorder Course Level: Undergraduate
2009/01/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Advanced Imaging Course for Biomedical Engineering Students Course Level: Undergraduate
2009/01/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Medical Problems for Biomedical Engineering Students Course Level: Graduate
2008/11/14	Guest Lecturer, Tel-Hashomer Brain Research Center Course Title: The Neurovascular Unit in Epileptogenesis: From Bedside to the Bench and Back Course Level: Graduate Guest Lecture?: Yes
2008/11/11	Guest Lecturer, The Weitzmann Institute Course Title: The Role of the Neurovascular Unit in Pathophysiology of Neurological Disorders Course Level: Graduate Guest Lecture?: Yes
2008/11/04	Guest Lecturer, Brain Imaging Center, Tel-Aviv Medical Center Course Title: The Neurovascular Unit in Brain Disorders Course Level: Graduate Guest Lecture?: Yes
2008/06/11	Guest Lecturer, Venice International University Course Title: Bridging Basic with Clinical Epileptology Course Topic: Epilepsy Course Level: Graduate Section: Epilepsy summer course Academic Session: Summer Guest Lecture?: Yes
2007/11/06	Guest Lecturer, Institute for Biochemistry, University of Erlangen-Nurnberg Course Title: Neurodegeneration and the Blood-Brain Barrier Course Level: Graduate Guest Lecture?: Yes

2007/01/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Advanced Physiology, Biophysics and Electrophysiology Course Level: Post Graduate
2005/01/01	Teacher, Ben-Gurion University of the Negev Course Title: Courses for Basic Physiology Medical and Para-Medical Professions
2005/01/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Pathogenesis of Epilepsy: from Genotype to Phenotype Course Level: Graduate
2004/11/11	Guest Lecturer, The Hebrew University of Jerusalem Course Title: The Role of the Blood-Brain Barrier in Cortical Pathology Course Level: Graduate Guest Lecture?: Yes
2004/11/09	Guest Lecturer, University of Toronto Course Title: Epileptogenesis under Blood-Brain Barrier Disruption Course Level: Graduate Section: Neuroscience Graduate School Guest Lecture?: Yes
2003/11/13	Guest Lecturer, Ruhr-Universitat Bochum Course Title: How Stress Affects Your Brain: A Cholinergic Perspective Course Level: Graduate Section: International Graduate School for Neuroscience Guest Lecture?: Yes
2003/11/08	Guest Lecturer, Stanford University Course Title: The Electrophysiological Responses to Blood-Brain-Barrier Disruption Course Level: Graduate Section: Department of Biology Guest Lecture?: Yes
2002/11/06	Guest Lecturer, Johannes Muller Institute for Physiology, Humboldt University, Berlin Course Title: How Stress Affects Your Brain Course Level: Graduate Guest Lecture?: Yes
2001/11/02	Guest Lecturer, Johannes Muller Institute for Psychology, Humboldt University, Berlin Course Title: Cholinergic Mechanisms in CNS Stress Responses Course Level: Graduate Guest Lecture?: Yes
2000/11/02	Guest Lecturer, Department of Neurology, Cologne University Hospital Course Title: Physiological and Molecular Mechanisms Associated with Cholinergic Impairments Course Level: Graduate Guest Lecture?: Yes
1999/11/05	Guest Lecturer, Psychiatric Medical Center Course Title: Mechanisms Underlying Post-Traumatic Stress Disorder Course Level: Graduate Guest Lecture?: Yes

1999/11/05	Guest Lecturer, Department of Anatomy and Neurobiology, University of Maryland at Baltimore Course Title: The role of acetylcholine in hippocampal synaptic transmission: modulation by stress Course Level: Graduate Guest Lecture?: Yes
1990/11/01	Guest Lecturer, Department of Physiology, University of Cologne Course Title: Mechanisms underlying firing patterns of neocortical neurons in-vitro Course Level: Graduate Guest Lecture?: Yes
1988/11/01	Guest Lecturer, Department of Neurology, Charing Cross Hospital London University Course Title: Calcium electrogenesis in neocortical neurons in-vitro Course Level: Graduate Guest Lecture?: Yes
2015/02/22 - 2015/03/03	Guest Lecturer Course Topic: Epilepsy Course Level: Graduate Section: Latin America Summer School on Epilepsy Academic Session: Summer Guest Lecture?: Yes
2002/01/01 - 2004/12/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Methodological Approaches in in vivo Neurophysiology Laboratory Course Course Level: Graduate
2000/01/01 - 2002/12/01	Teacher, Ben-Gurion University of the Negev Course Title: Neurophysiology 2nd year MD program in International Health in collaboration with Colombia University Health Sciences
1999/01/01 - 2002/12/01	Coordinator/Teacher, Ben-Gurion University of the Negev Course Title: Neurophysiology for Physiotherapy Students Course Level: Undergraduate
1998/01/01 - 2002/12/01	Teacher, Ben-Gurion University of the Negev Course Title: Neurophysiology 4th year Medical Students
1992/01/01 - 2002/12/01	Teacher, Ben-Gurion University of the Negev Course Title: Neurosurgery 5th Year Medical Students
1998/01/01 - 1998/12/31	Teacher, Ben-Gurion University of the Negev Course Title: Experimental Approaches for Studying Central Nervous System Disorders Course Level: Graduate
1985/01/01 - 1991/01/01	Tutor, Ben-Gurion University of the Negev Course Title: Physiology 1st year Medical Students
1987/01/01 - 1988/12/01	Tutor, Ben-Gurion University of the Negev Course Title: Psychophysiology-Behavioral Sciences Course Level: Undergraduate

Student/Postdoctoral Supervision

Master's Thesis [n=16]

2016/9 - 2018/8 Principal Supervisor	Ellen Parker (In Progress) , Dalhousie University Student Degree Start Date: 2016/8 Student Degree Expected Date: 2018/7 Thesis/Project Title: TBI and role in Epilepsy Present Position: Graduate student
2015/10 - 2017/11 Principal Supervisor	Dror Rosenbach (In Progress) , Ben Gurion University Student Degree Start Date: 2015/10 Student Degree Expected Date: 2017/9 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Mechanisms underlying neurodegeneration following mild traumatic brain injury Project Description: Traumatic microvascular injury in brain injury: target for diagnosis and treatment Present Position: Graduate student Student Country of Citizenship: Israel
2011/1 - 2014/12 Principal Supervisor	Chen Tifeeret (Completed) , Ben-Gurion University Student Degree Start Date: 2010/1 Student Degree Received Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Brain Function in Stress and Modulation of Emotional Response: Human Studies Project Description: brain function in stress and modulation of emotional response: human studies Present Position: Research Assistant, Ben-Gurion Univ Student Country of Citizenship: Israel
2009/1 - 2012/12 Co-Supervisor	Etti Askenazi (Completed) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Received Date: 2012/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: EEG Analysis in Epileptogenesis and Seizures Project Description: EEG analysis in epileptogenesis and seizures Present Position: Biomedical Engineer, Israel
2009/1 - 2011/12 Co-Supervisor	Ayelet Peer (Completed) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Received Date: 2011/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Neuroinflammatory Response in Epileptogenesis Project Description: blood-brain barrier and epileptogenesis Present Position: PhD student, Tel-Aviv University
2009/1 - 2012/12 Co-Supervisor	Netali Efrat (Completed) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Received Date: 2012/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: EEG Analysis in Epileptogenesis and Seizures Project Description: EEG analysis in epileptogenesis and seizures Present Position: PhD student, Weizmann Institute, Rehovot, Israel

2009/1 - 2012/12 Principal Supervisor	Lyn Kaminitzky (Completed) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Received Date: 2012/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: EEG Analysis in Epileptogenesis and Seizures Project Description: EEG analysis in epileptogenesis and seizures Present Position: PhD Research student, Dalhousie University
2008/10 - 2010/10 Principal Supervisor	Guy Bar-Klein (Completed) , Ben-Gurion University Student Degree Start Date: 2008/10 Student Degree Received Date: 2010/10 Student Canadian Residency Status: Not Applicable Thesis/Project Title: TGFbeta signaling in the BBB deprived cortex Present Position: Post-Doctoral Fellow, John Hopkins School of Medicine Student Country of Citizenship: Israel
2008/1 - 2011/12 Principal Supervisor	Chen Klein (Completed) , Ben-Gurion University Student Degree Start Date: 2008/1 Student Degree Received Date: 2011/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier Opening in a Rat Model of Stroke Project Description: blood-brain barrier and epileptogenesis Present Position: Engineer, Biotec company
2007/1 - 2009/12 Principal Supervisor	Haviv Levy (Completed) , Ben-Gurion University Student Degree Start Date: 2007/1 Student Degree Received Date: 2009/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis Project Description: blood-brain barrier and epileptogenesis Present Position: Biomedical Engineer, Israel
2006/1 - 2009/12 Principal Supervisor	Yehudit Genatek (Completed) , Ben-Gurion University Student Degree Start Date: 2006/1 Student Degree Received Date: 2009/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis Project Description: Cholinergic Modifications in Stress and Epileptogenesis Present Position: Research Assistant, Tel-Hashomer Medical Center, Israel
2006/1 - 2009/12 Co-Supervisor	Merav Ben-Asher (Completed) , Ben-Gurion University Student Degree Start Date: 2006/1 Student Degree Received Date: 2009/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: EEG Analysis in Epileptogenesis and Seizures Project Description: EEG analysis in epileptogenesis and seizures Present Position: Biomedical Engineer, Israel
2006/1 - 2008/12 Principal Supervisor	Shy Hefetz (Completed) , Ben-Gurion University Student Degree Start Date: 2006/1 Student Degree Received Date: 2008/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Brain Function in Stress and Modulation of Emotional Response: Human Studies Project Description: brain function in stress and modulation of emotional response: human studies Present Position: Biomedical Engineer, Israel

2006/1 - 2009/12
Principal Supervisor Yifat Bitan (Completed) , Ben-Gurion University
Student Degree Start Date: 2006/1
Student Degree Received Date: 2009/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis
Project Description: Cholinergic modifications in stress and epileptogenesis
Present Position: Technician and manager, Neurophysiology Monitoring Company, Tel-Aviv, Israel

2005/1 - 2010/12
Principal Supervisor Asaf Kara (Completed) , Ben-Gurion University
Student Degree Start Date: 2005/1
Student Degree Received Date: 2010/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Blood-Brain Barrier Imaging: Human Studies
Project Description: blood-brain barrier imaging: human studies
Present Position: Chief Imaging Technician, Soroka Medical Center

2000/1 - 2003/12
Principal Supervisor Akiva Korn (Completed) , Ben-Gurion University
Student Degree Start Date: 2000/1
Student Degree Received Date: 2003/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Focal cortical abnormal activity under BBB breakdown: a human study
Project Description: cortical electrophysiology
Present Position: Head, Neurophysiology monitoring unit, Tel-Aviv, Israel

Doctorate [n=21]

2016/9 - 2020/8
Principal Supervisor Refa't Abo Ghazleh (In Progress) , Dalhousie University
Student Degree Start Date: 2016/8
Student Degree Expected Date: 2019/7
Thesis/Project Title: Blood-brain barrier breakdown
Present Position: Graduate student

2015/9 - 2019/8
Principal Supervisor Lyn Kamintsky (In Progress) , Dalhousie University
Student Degree Start Date: 2015/9
Student Degree Expected Date: 2019/8
Thesis/Project Title: MRI Based Biomarkers
Present Position: Phd student

2014/9 - 2018/9
Principal Supervisor Yehuda Vazana (In Progress) , Ben-Gurion University
Student Degree Start Date: 2014/9
Student Degree Expected Date: 2018/9
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Blood-brain barrier permeability modulation in health and disease
Present Position: Ph.D student
Student Country of Citizenship: Israel

2012/1 - 2017/1
Principal Supervisor Dan Milkovsky (In Progress) , Ben-Gurion University
Student Degree Start Date: 2012/1
Student Degree Expected Date: 2017/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The role of the blood-brain barrier in neurodegeneration
Project Description: blood-brain barrier and epileptogenesis
Present Position: MD-PhD student

2011/1 - 2015/12 Principal Supervisor	Mike Fassler (In Progress) , Ben-Gurion University Student Degree Start Date: 2011/9 Student Degree Expected Date: 2015/9 Thesis/Project Title: The role of astrocytes in cortical venous thrombosis Present Position: PhD student
2011/1 - 2016/12 Principal Supervisor	Ronel Vexler (In Progress) , Ben-Gurion University Student Degree Start Date: 2011/1 Student Degree Expected Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier Imaging: Human Studies Project Description: blood-brain barrier imaging: human studies Present Position: MD-PhD student
2010/10 - 2014/12 Principal Supervisor	Guy Bar-Klein (Completed) , Ben-Gurion University Student Degree Start Date: 2010/10 Student Degree Received Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The role of TGFbeta signaling in Epileptogenesis Present Position: Post-Doctoral Fellow, John Hopkins School of medicine Student Country of Citizenship: Israel
2009/1 - 2015/12 Principal Supervisor	Karl Shocknecht (In Progress) , Charite Medical University Student Degree Start Date: 2009/1 Student Degree Expected Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-brain barrier and epileptogenesis following cerebro-vascular injury Project Description: blood-brain barrier and epileptogenesis Present Position: MD-PhD student
2009/1 - 2015/12 Principal Supervisor	Itai Weisberg (In Progress) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Expected Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The role of serum albumin in epileptogenesis Project Description: blood-brain barrier and epileptogenesis Present Position: MD-PhD student
2009/1 - 2015/12 Principal Supervisor	Rotem Saar (In Progress) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Expected Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Brain Function in Stress and Modulation of Emotional Response: Human Studies Project Description: brain function in stress and modulation of emotional response: human studies Present Position: PhD student
2008/1 Co-Supervisor	Nitzan Levy (In Progress) , Ben-Gurion University Student Degree Start Date: 2008/1 Student Degree Expected Date: 2015/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis Project Description: blood-brain barrier and epileptogenesis Present Position: PhD student

2007/1 - 2012/12 Co-Supervisor	<p>Maya Ketzef (Completed) , Ben-Gurion University</p> <p>Student Degree Start Date: 2007/1</p> <p>Student Degree Received Date: 2012/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis</p> <p>Project Description: blood-brain barrier and epileptogenesis</p> <p>Present Position: A Post-Doctoral Fellow, Copenhagen Univ, Sweden</p>
2007/1 - 2015/12 Principal Supervisor	<p>Ofer Prager (In Progress) , Ben-Gurion University</p> <p>Student Degree Start Date: 2007/1</p> <p>Student Degree Expected Date: 2015/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: Neurovascular Coupling under Blood-Brain Barrier Injury</p> <p>Project Description: blood-brain barrier and epileptogenesis</p> <p>Present Position: Laboratory Manager and research Associate, Ben-Gurion University</p>
2006/1 - 2011/12 Principal Supervisor	<p>Yaron David (Completed) , Ben-Gurion University</p> <p>Student Degree Start Date: 2006/1</p> <p>Student Degree Received Date: 2011/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: Astrocytic Dysfunction in the Blood-Brain Barrier model of Epileptogenesis</p> <p>Project Description: blood-brain barrier and epileptogenesis</p> <p>Present Position: Medical Software Developer, Biomedical start-up company, Israel</p>
2003/1 - 2010/12 Principal Supervisor	<p>Jonathan Cohen (Completed) , Ben-Gurion University</p> <p>Student Degree Start Date: 2003/1</p> <p>Student Degree Received Date: 2010/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: Brain Function in Stress and Modulation of Emotional Response: Human Studies</p> <p>Project Description: brain function in stress and modulation of emotional response: human studies</p> <p>Present Position: Medical residency, Oncology, Hadassah University Hospital, Jerusalem, Israel</p>
2003/1 - 2006/12 Principal Supervisor	<p>Sebastian Ivens (Completed) , Charite Medical University</p> <p>Student Degree Start Date: 2003/1</p> <p>Student Degree Received Date: 2006/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: The role of astriocytes and TGF-beta in Epileptogenesis</p> <p>Project Description: blood-brain barrier and epileptogenesis</p> <p>Present Position: Medical residency, Psychiatry, Charite Medical University, Berlin</p>
2002/1 - 2004/12 Principal Supervisor	<p>Ernst Seiffert (Completed) , Charite Medical University</p> <p>Student Degree Start Date: 2002/1</p> <p>Student Degree Received Date: 2004/12</p> <p>Student Canadian Residency Status: Not Applicable</p> <p>Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis</p> <p>Project Description: blood-brain barrier and epileptogenesis</p> <p>Present Position: Psychiatrist, Zurich, Switzerland</p>

2001/1 - 2006/12 Principal Supervisor	Orie Brown (Completed) , Ben-Gurion University Student Degree Start Date: 2001/1 Student Degree Received Date: 2006/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis Project Description: cholinergic modifications in stress and epileptogenesis
2000/1 - 2008/12 Principal Supervisor	Oren Tomkins (Completed) , Ben-Gurion University Student Degree Start Date: 2000/1 Student Degree Received Date: 2007/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier Imaging: Human Studies Project Description: blood-brain barrier imaging: human studies Present Position: Clinician -Researcher and Deputy-Director, Ophthalmology, University College of London, England
2000/1 - 2007/12 Principal Supervisor	Lev Pavlovsky (Completed) , Ben-Gurion University Student Degree Start Date: 2000/1 Student Degree Received Date: 2007/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis Project Description: cholinergic modifications in stress and epileptogenesis Present Position: Dermatology Medical Specialist, Head of out patient clinic, Belinson Medical Center, Israel
1998/1 - 2003/12 Co-Supervisor	Nadav Astman (Completed) , Ben-Gurion University Student Degree Start Date: 1998/1 Student Degree Received Date: 2003/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Cortical Electrophysiology Project Description: cortical electrophysiology

Post-doctorate [n=5]

2015/1 Principal Supervisor	Yonatan Serlin (In Progress) , Dalhousie University Student Degree Start Date: 2015/1 Student Degree Expected Date: 2016/6 Thesis/Project Title: Angiographic evidence of retinal vessel permeability predicts neuropsychiatric morbidity in diabetic patients Project Description: Imaging blood-brain barrier and blood-retinal barrier pathology: clinical translation Present Position: Post-doctoral Fellow Student Country of Citizenship: Israel
2015/1 - 2015/8 Principal Supervisor	Guy Bar-Klein (Completed) , Ben Gurion University Student Degree Start Date: 2014/9 Student Degree Received Date: 2015/8 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Role of TGFbeta signaling in Epileptogenesis Project Description: Imaging blood-brain barrier as a biomarker for epileptogenesis: a pre-clinical study Present Position: Postdoctoral research associate, Howard Hughes Medical Institute and the Institute of Genetic Medici Student Country of Citizenship: Israel Areas of Research: Convulsive Disorders/ Epilepsy

- 2008/10 - 2010/9
Principal Supervisor Lev Pavlovsky (Completed) , Ben-Gurion University of the Negev
Student Degree Start Date: 2009/9
Student Degree Received Date: 2010/8
Thesis/Project Title: Cholinergic Transmission under stress
Project Description: Cholinergic hippocampal functional modulation under stress
Present Position: Clinician-Researcher, Head of Outpatient Clinic, Dermatology, Belinson Medical Center, Israel
- 2008/10 - 2010/9
Principal Supervisor Yoash Hassidim (Completed) , Ben-Gurion University of the Negev
Student Degree Start Date: 2008/10
Student Degree Received Date: 2010/9
Thesis/Project Title: Blood-brain barrier imaging
Project Description: Development of image analysis methods for quantifying vascular permeability
Present Position: Researcher and Instructor, Sapir College, Israel
- 2004/1 - 2007/12
Principal Supervisor Naim Najami (Completed) , Ben-Gurion University
Student Degree Start Date: 2004/1
Student Degree Received Date: 2007/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis
Project Description: cholinergic modifications in stress and epileptogenesis
Present Position: Teacher and reseacrher, the Arab College Haifa, Israel

Event Administration

- Organizer, 1st International Symposium: Drug Resistant Epilepsy: From Basic Science to Pharmacological and Surgical Management, Conference, 1st International Symposium Epilepsy Beer-Sheva, 2007/12 -
- Organizer, Cholinergic signaling- From Genes to Environment, Conference, 2007/12 -
- Organizer, Cortical Circuitry, Conference, 2006/12 -
- Organizer, Blood-Brain Barrier Dysfunction in Neurological Diseases : Clinical Studies, Underlying Mechanisms and Therapeutic Implications, Conference, Beer-Sheva & Sde Boker, 2012/12 -
<http://bbb2012negev.med.ad.bgu.ac.il/index.html>
- Organizer, International meeting in Epilepsy Genetics and the young researcher meeting, Conference, 2013/12 - 2013/12
International meeting (Sde Boker) for Epilepsy Genetics
- Organizer, 2nd International Symposium: Drug Resistant Epilepsy: From Basic Science to Pharmacological and Surgical Management, Conference, 2nd International Symposium Epilepsy Beer-Sheva, 2009/12 -

Editorial Activities

- 2014/1 , Neuroimmunology and Neuroinflammation, Journal
Research Disciplines: Neurosciences
- 2013/1 Editor, Seminars Cell and Dev. Biology, Journal
Special Issue; "Blood-brain barrier"
- 2011/1 Invited Guest Editor, Epilepsia Special Issue, Journal
Blood-brain Barrier Dysfunction in Epileptogenesis

2010/1	Invited Guest Editor, Cardiovascular Psychiatry and Neurology, Journal Blood-Brain Barrier Breakdown and Blood-brain Barrier Communication in Neurological and Psychiatric Diseases
2009/1	Editor, The Open Biology Journal, Journal Editor/Member of Editorial board
2009/1	Editor, TurkiyeKlinikleri Journal of Medical Sciences, Journal Editor/Member of Editorial Board
2010/1 - 2012/12	Editor, Epilepsia, Journal Editor/Member of Editorial Board

Journal Review Activities

	Reviewer, Epilepsy Research
	Reviewer, FEBS Journal
	Reviewer, Epilepsia
2009/1	Editor, The Open Biology Journal
2009/1	Editor, TurkiyeKlinikleri Journal of Medical Sciences
2008/1	Reviewer, GLIA Number of Works Reviewed / Refereed: 3
2008/1	Reviewer, Journal of Cerebral Blood Flow and Metabolism Number of Works Reviewed / Refereed: 3
2007/1	Reviewer, Brain Number of Works Reviewed / Refereed: 6
2007/1	Reviewer, Neurobiology of Disease Number of Works Reviewed / Refereed: 15
2006/1	Reviewer, Journal of Neurology Number of Works Reviewed / Refereed: 7
2006/1	Reviewer, Nature Medicine Number of Works Reviewed / Refereed: 3
2006/1	Reviewer, Neurosurgery and Psychiatry Number of Works Reviewed / Refereed: 5
2004/1	Reviewer, Journal of Neuroscience Number of Works Reviewed / Refereed: 8
2005/1 - 2015/7	Reviewer, Neuroscience Number of Works Reviewed / Refereed: 10
2010/1 - 2012/12	Editor, Epilepsia Number of Works Reviewed / Refereed: 20

Research Funding Application Assessment Activities

2010/8	External Reviewer, French ANR, Organization, Academic Reviewer, French ANR Number of Applications Assessed: 3
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2007/1	External Reviewer, The Psychobiology Institute in Israel, Organization, Academic Reviewer, The Psychobiology Institute in Israel Number of Applications Assessed: 5
2006/8	Committee Member, The Israeli Academy of Sciences, Organization, Academic Reviewer, The Israeli Academy of Sciences Number of Applications Assessed: 35
2006/1	External Reviewer, Deutsche-Forschung Gemeinschaft(DFG, German Science Foundation) European Union, Organization, Academic Reviewer, German Science Foundation Number of Applications Assessed: 6
2009/1 - 2014/6	Committee Member, Binational Israel-USA Science Foundation (BSF), Organization, Academic Reviewer, Binational Israel-USA Science Foundation Number of Applications Assessed: 30
2008/1 - 2013/8	Committee Member, The German-Israeli Foundation, Organization, Academic Reviewer, The German-Israeli Foundation Number of Applications Assessed: 40

Organizational Review Activities

Reviewer of Grants, The Psychobiology Institute
Grant Reviewer

Reviewer for Grant Agency, European Union
Reviewer for grant agencies

Reviewer of Grants, The German-Israeli Foundation
Grant Reviewer

Reviewer of Grants, Israeli Academy of Sciences
Grant Reviewer

Reviewer of Grants, Deutsche-Forschung Gemeinschaft DFG, German Academy of Sciences) European Union
Grant Reviewer

Reviewer of Grants, Binational Israel-USA Science Foundation (BSF)
Grant Reviewer

Reviewer of Grants, French ANR
Grant Reviewer

Event Participation

2014/4	Invited member, Translational task force of the neurobiology commission of the ILAE, Basic Science, Conference Invited member of the working group for the Translational Task Force of the Neurobiology commission of the ILAE
2010/1	Invited Member, Task Force on Basic Sciences The International League Against Epilepsy, Association

Community and Volunteer Activities

2005/1 - 2011/12	Physician, Physicians for Human Rights Volunteering as a physician in a mobile clinic in the occupied territories, the West Bank and Palestine.
1988/1 - 1991/12	Coordinator of civil rights, Association for Civil Rights in Israel Coordinator of civil rights in the Gaza Strip

Knowledge and Technology Translation

2016/1	Founder, Involvement in/Creation of Start-up Target Stakeholder: Healthcare Personnel Activity Description: Foundation of EMAGIX, a start-up company for digital image analysis for the early diagnosis of retinal and neurodegenerative disorders
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Committee Memberships

2012/1	Chair, Cognitive and Brain Sciences Teaching Program (undergraduate and graduate), Ben-Gurion University of the Negev
2011/1	Chair, Director of the Zlotowski center for Neuroscience, Ben-Gurion University of the Negev
2007/1 - 2011/12	Co-chair, Department of Biomedical Engineering, Ben-Gurion University of the Negev

Other Memberships

2014/3	Invited Member, The International League against Epilepsy Invited member of the working group of the Translational Task force of the Neurobiology Commission of the ILAE, Basic Science, The International League against Epilepsy
2004/1	member, International League Against Epilepsy
2000/1	member, Federation of European Neuroscience Societies
1996/1	member, Israeli Societies for Neuroscience
1984/1	member, Society for Neuroscience
1996/1 - 2001/12	member, European Society of Clinical Neurophysiology

Presentations

- (2016). Blood brain barrier in human epilepsy, MRI imaging. ILAE - 9th International Epilepsy Colloquium Westminster, London, England July 22-24, 2016, London, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: Yes
- (2016). Inflammation and Epilepsy. University of California Irvine lecture series, Irvine, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

3. (2016). In search of biomarkers: from bed to bench and back. Mini symposium on Brain Injury, Halifax, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
4. (2016). Blood brain barrier pathology as a bio-marker and target for treatment in traumatic brain injury. Keystone Symposia on Molecular and Cellular Biology, Fort Worth, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: Yes
5. (2015). Blood-Brain Barrier Dysfunction as a Target in the Diagnosis and Treatment of Neurological Disorders. 2nd Zing Barriers of the CNS Conference, Madrid, Spain
Main Audience: Researcher
Invited?: Yes, Keynote?: No
6. (2015). Blood-Brain Barrier Dysfunctions as Biomarker and Target in the Prevention of Acquired Epilepsy. 5th International Mediterranean Neuroscience Society Meeting, Cagliari, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
7. (2015). Vascular Integrity and Blood -Brain Barrier Functions as Biomarkers in Epilepsy. Workshop on the Neurobiology of Epilepsy (WONOEP), Istanbul, Turkey
Main Audience: Researcher
Invited?: Yes, Keynote?: No
8. (2014). Imaging blood-brain barrier dysfunction as a biomarker for epileptogenesis. The 11th European Congress on Epileptology, Stockholm, Sweden
Main Audience: Researcher
Invited?: Yes, Keynote?: No
9. (2014). Blood-brain barrier dysfunction and neuronal hyper-excitability: the chicken and egg dilemma?. 17th International Symposium Signal Transduction in the Blood-Brain Barrier, Dublin, Ireland
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
10. (2013). Epileptogenesis: Cells, Molecules and the Blood-Brain Barrier. 30th International Epilepsy Congress, Montreal, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
11. (2013). Cerebrovascular Biology. 10th International Meeting on Cerebrovascular Biology (CVB), Montreal, Canada
Main Audience: Researcher
Invited?: Yes
12. (2013). Imaging Blood Brain Barrier in Pathology. 16th international Symposium of Signal Transduction in the Blood Brain Barrier, Sumeg, Hungary
Main Audience: Researcher
Invited?: Yes, Keynote?: No
13. (2012). Blood-Brain Barrier and Epilepsy. Swedish Epilepsy Society (Swedish Chapter of ILAE) Autumn Course- Bridging Clinical and Preclinical Epileptology, Lund, Sweden
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
14. (2012). Blood-Brain Barrier Failure: Mechanisms and Implications. Versailles International Neurointensive Care Symposium, Versailles, France
Main Audience: Researcher
Invited?: Yes, Keynote?: No

15. (2012). The Blood-Brain Barrier in Neurological Diseases. 4th France-Israel Binational Conference, Aussois, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: No
16. (2011). Blood-Brain Barrier Dysfunction and Epileptogenesis. 3rd London Colloquium on Status Epilepticus, Oxford, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
17. (2011). The Blood-Brain Barrier in Health and Chronic Neurodegenerative Disorders. 24th European College of Neuropharmacology, Paris, France
Main Audience: Researcher
Invited?: Yes, Keynote?: No
18. (2011). Blood-brain barrier, immune response and seizures. Mario Negri Institute, Milan, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
19. (2011). Modulating BBB Permeability: Why is it that difficult and why do we want it?. 14th Symposium on Signal Transduction in the Blood-Brain Barrier, Istanbul, Turkey
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
20. (2011). BBB Dysfunction, Epileptogenesis and Neurodegeneration: A puzzle of a chicken and egg?. Neurodegeneration and BBB Functionality, Conference on Cerebral Vascular Biology (CVB), Leiden, Netherlands
Main Audience: Researcher
Invited?: Yes, Keynote?: No
Description / Contribution Value: Speaker and Chair
21. Schoknecht, K., David, Y., Heinemann, U. and Friedman, A. (2010). Blood-brain barrier dysfunction: A target to prevent secondary stroke complications?. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: No
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience (supplementary)
22. Fassler, M., Weissberg, I., Sharony, E., Friedman, A. and Taube, R. (2010). Cell specific gene targeting to the CNS using engineered lentiviruses. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience (supplementary)
23. Efrat, N., Dagan, A., Friedman, A. and Shallom, I. (2010). EEG fMRI study: Automatic localization of an epileptic focus based on parametric multi channel analysis and pattern recognition technologies. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience (supplementary)
24. Kamintsky, L., Weissberg, I., Ketzef, M., Gitler, D., Becker, A., Zigel, Y. and Friedman, A. (2010). A multi-model unbiased algorithm for reliable detection of seizures. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience (supplementary)
25. (2010). Blood-Brain Barrier Breakdown and Brain Dysfunction. 9th European Congress on Epileptology, Rhodes, Greece
Main Audience: Researcher
Invited?: Yes

26. (2010). Blood-Brain Barrier Breakdown in Neurological Disorders: From the Bed-Side to Bench and Back. USGEB Annual Meeting, Frontiers in Human Biology, Lugano, Switzerland
Main Audience: Researcher
Invited?: Yes
27. (2010). K⁺ -Buffering via Kir Channels is Reduced in Seizure-Induced Blood-Brain-Barrier Disruption. 9th European Congress on Epileptology, Rhodes, Greece
Main Audience: Researcher
Invited?: Yes
28. (2010). Blood-Brain Barrier in Stroke and its Role in Epileptogenesis. Gordon Conference,
Main Audience: Researcher
Invited?: Yes
29. Weissberg,I., Becker,A.J., Schoknecht,K., Kamintsky,L. and Friedman,A.(2010). Albumin-induced model of mesial temporal lobe epilepsy in mice. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience (supplementary)
30. (2010). Blood-Brain-Barrier and Inflammation in Epileptogenesis. 1st Meeting on Immunity and Inflammation in Epilepsy, Milan, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
31. Bar-Klein,G., Cacheaux,L., Kaufer,D. and Friedman,A.(2009). Blocking TGF-beta signaling as a potential anti-epileptogenic treatment. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: No
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience 39, sup.1
32. (2009). TGF beta Signaling in Epilepsy. 28th International Epilepsy Congress, Budapest, Hungary
Main Audience: Researcher
Invited?: Yes, Keynote?: No
33. Prager,O., Chassidim,Y., Litvan-Tannenbaum,M., Klein,C., Levi,H., Korn,A., Shelef,I. and Friedman,A. (2009). Dynamic in-vivo imaging of cerebral blood flow and blood-brain barrier permeability. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Germany
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience 39, sup.1
34. (2009). Rationality and Neuroscience. A Workshop Organized by the Berlin-Brandenburg Academy and the Israel Academy, Berlin, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: No
35. Cohen,J.E., Shalev,H., Shelef,I., Admon,R., Hendler,T. and Friedman,A.(2009). Emotional brain rhythms and their impairment in post-traumatic patients: Correlative EEG-fMRI study. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience m39, sup.1
36. (2009). Hippocampal Cholinergic Dysfunction in Epilepsy: New and Classical Roles for an Old Player?. International Symposium on Hippocampal Function and Dysfunction, Berlin, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: No

37. (2009). Impaired Astrocytic Gene Expression Patterns due to Aberrant TGF-beta Receptor Signaling in Neocortical Epileptogenesis. 28th International Epilepsy Congress, Budapest, Hungary
Main Audience: Researcher
Invited?: Yes
38. Levi,H., Prager,O., Chassidim,Y. and Friedman,A.(2009). A novel method to determine dynamic changes in brain vessels diameter. The Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel
Main Audience: Researcher
Description / Contribution Value: Published online: The Journal of Molecular Neuroscience m39, sup.1
39. Ketzeff,M., Friedman,A. and Gitler,D.(2008). Age-dependent cortical plasticity in synapsin knockout epileptic mice. European Epilepsy Meeting, Berlin, Germany
Main Audience: Researcher
40. (2008). Astrocytic-Neuronal Interactions in Epileptogenesis. European Epilepsy Meeting, Berlin, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: No
41. Cohen,J., Shalev,H., Hefetzl,S., Admon,R., Shelef,I., Hendler,T. and Friedman,A.(2008). Distinct spatio-temporal brain activation in healthy and post traumatic subjects in response to emotional stimuli. The 4th Tel Aviv Human Brain Mapping Meeting, Tel Aviv, Israel
Main Audience: Researcher
42. Ketzeff,M., Weissberg,A., Friedman,A. and Gitler,D.(2008). Age-dependent neocortical plasticity in synapsin knockout epileptic mice. American Society for Neuroscience,
Main Audience: Researcher
43. (2008). The Neurovascular Unit in Epileptogenesis: From Bedside to the Bench and Back. The Michael Prize Symposium, European Epilepsy Meeting, Berlin, Germany
Main Audience: Researcher
Invited?: No, Keynote?: No
44. (2008). The Neurovascular Unit in Epileptogenesis. The American Epilepsy Society Meeting, Seattle, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
45. (2008). The Blood-Brain Barrier in Epileptogenesis. Advanced International Course; Bridging Basic with Clinical Epilepsy, San-Servolo, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
46. (2008). The Blood-Brain Barrier during Epileptogenesis. 7th Dutch Endo-Neuro-Psycho Meeting, Doorwerth, Netherlands
Main Audience: Researcher
Invited?: Yes
47. (2008). Identifying BBB Dysfunction and Leaks in Patients. Blood-Brain Barrier Consortium Club Symposium: The Human Blood-Brain Barrier and Blood-Retinal Barriers, London, United Kingdom
Main Audience: Researcher
Invited?: Yes
48. (2007). Imaging the Blood-Brain Barrier in Animals and Humans. Satellite Workshop on Surrogate Markers of BBB Disruption. CVB Meeting, Ottawa, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

49. (2007). The Neurovascular Unit in Epileptogenesis: From Bed-Side to Bench and Back. 27th International Epilepsy Meeting. The Michael Prize Lecture, Singapore, Taiwan, Province of China
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
50. (2007). Altered Blood-Brain Barrier Communication and Neural Dysfunction in the Stressed Brain. 9th Neuroscience International Winter Conference, Soelden, Austria
Main Audience: Researcher
Invited?: Yes, Keynote?: No
51. (2007). The Neurovascular Unit in Epilepsy. Weitzman Institute Conference, Rechovot, Israel
Main Audience: Researcher
Invited?: Yes
52. (2007). Blood-Brain Barrier as a Target for Therapeutic Intervention. 27th International Epilepsy Meeting, Singapore, Taiwan, Province of China
Main Audience: Researcher
Invited?: Yes, Keynote?: No
53. (2007). The Role of the Blood-Brain Barrier in the Pathogenesis of Neurological Disorders: Evidence from Human and Animal Studies. CVB Meeting, Ottawa, Canada
Main Audience: Researcher
Invited?: Yes
54. (2006). Neuronal-Glial Interactions in Brain Injury. Fifteenth World Congress of Pharmacology, Beijing, France
Main Audience: Researcher
Invited?: Yes, Keynote?: No
55. (2006). Molecular, Physiological and Clinical consequences of Blood-Brain Barrier Disruption. Eighth Symposium, Signal Transduction in the Blood-Brain Barriers, Salzburg, Austria
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
56. Friedman,O., Tomkins,O., Ivens,S. and Friedman,A.(2006). Anatomical degeneration and functional deterioration in the rat epileptic cortex. 7th European Congress of Epileptology, Helsinki, Finland
Main Audience: Researcher
Description / Contribution Value: p437: page 116
57. (2006). Mechanisms Underlying Epileptogenesis in the Injured Cortex. First North American Regional Epilepsy Congress. Annual Meeting of the American Epilepsy Society & Canadian League against Epilepsy, San Diego, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
58. Flores,L.P., Ivens,A. Friedman,A. and Kaufer,D.(2006). Gene expression modulations underlying epileptogenesis following BBB malfunction. American Epilepsy Society Annual Meeting,
Main Audience: Researcher
59. Ivens,S., Bechmann,I., Kaufer,D., Heinemann,U. and Friedman,A.(2006). Astrocytic-neuronal interactions during epileptogenesis in the rat neocortex. 7th European Congress of Epileptology, Helsinki, Finland
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
Description / Contribution Value: Presentation:033, page 11
60. Tomkins,O., Korn,A., Cohen,A., Friedman,A. and Shelef,I.(2006). Post-lesion focal neocortical epilepsy in humans: The role of the blood-brain barrier. 7th European Congress of Epileptology, Helsinki, Finland
Main Audience: Researcher
Description / Contribution Value: Presentation p422, page 112

61. (2006). The Role of the Blood-Brain Barrier in Epileptogenesis. Seventh European Congress on Epileptology, Helsinki, Finland
Main Audience: Researcher
Invited?: Yes, Keynote?: No
62. Ivens,S., Seiffert,E., Bechmann,I., Kaufer,D., Tomkins,O., Heinemann,U. and Friedman,A.(2005). Astrocytic-neuronal interactions underlie epileptogenesis following blood-brain barrier-disruption. Israel Society of Neuroscience Annual Meeting,
Main Audience: Researcher
Description / Contribution Value: Reviews in the Neurosciences 16(supplement 1) S32
63. Tomkins,O., Shelef,I., Benifla,M. and Friedman,A.(2005). Computer-assisted diagnosis of blood-brain barrier disruption. Israel Society of Neuroscience Annual Meeting, Israel
Main Audience: Researcher
Description / Contribution Value: Reviews in the Neurosciences 16(supplement 1) S64
64. David,Y., Ivens,S., Levy,H. and Friedman,A.(2005). Albumin induced epileptiform activity is mediated via its interactions with transforming growth factor beta receptor Reviews in the Neurosciences 16(supplement 1) S15. Israel Society of Neuroscience Annual Meeting, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: No
65. Seiffert,E., Pavlovsky,L., Heinemann,U., Korn,A., Golan,H. and Friedman,A.(2005). Persistent blood-brain barrier disruption may underlie interferon-alpha-induced seizures. Israel Society of Neuroscience Annual Meeting,
Main Audience: Researcher
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Main Audience: Researcher
67. (2004). Glial-Neuronal Interactions in the Blood-Brain Barrier Disrupted Cortex. Seventh Symposium, Signal Transduction in the Blood-Brain Barriers, Berlin, Germany
Main Audience: Researcher
Invited?: Yes
68. (2004). Pathophysiology of the Neurovascular Unit: Lessons from Imaging. Biomillennium Conference, Cappadocia, Turkey
Main Audience: Researcher
Invited?: Yes
69. (2003). Electrophysiological Responses to Cortical Blood-Brain Barrier Disruption. Sixth Symposium, Signal Transduction in the Blood-Brain Barriers, Szeged, Hungary
Main Audience: Researcher
Invited?: Yes
70. Seiffert,E., Heinemann,U. and Friedman,A.(2003). Electrophysiological responses to cortical blood-brain-barrier disruption. 5th Meeting of the German Neuroscience Society, Goettingen, Germany
Main Audience: Researcher
71. Korn,A., Golan,H. and Friedman,A.(2002). Focal abnormal electroencephalography in post-concussion patients: Correlations with brain imaging and LORETA P19-09. The European Clinical 11th European Congress of Clinical Neurophysiology, Barcelona, Spain
Main Audience: Researcher

72. (2002). Low-Resolution Brain Electromagnetic Tomography(LORETA) : Use in Epilepsy and Related Disorders. 11th Congress of Clinical Neurophysiology, Barcelona, Spain
Main Audience: Researcher
Invited?: Yes
73. (2002). Blood-Brain Barrier Disruption in Humans is Associated with Abnormal Cortical Theta Rhythm Generation: The Potential Involvement of Acetylcholinesterase. XIth International Symposium on Cholinergic Mechanisms - Function and Dysfunction. The 2nd Symposium on Neurobiology, St.Moritz, Switzerland
Main Audience: Researcher
Invited?: Yes
74. (2002). Blood-Brain Barrier Disruption in Humans: Physiological Correlates. Fifth Symposium, Signal Transduction in the Blood-Brain Barriers, Berlin, Germany
Main Audience: Researcher
Invited?: Yes
75. (2001). Blood-Brain Barrier Disruption in Humans. Blood-Brain Barrier Mechanisms from Molecule to Patient, Australia
Main Audience: Researcher
Invited?: Yes, Keynote?: No
76. Melamed,I., Cohen,A., Friedman,A., Zucker,G., Merkin,V., Yosefovich,T., Alushin,A. and Reichenthal,E. (1999). Intraoperative evaluation of spinal canal using flexible fiberscope. The triNational Meeting of the Israeli, German and Finnish Neurological Societies,
Main Audience: Researcher
77. (1998). Molecular Neurophysiology of Central Cholinergic Mechanisms. Symposium on Cholinergic Mechanisms, Arcachon, France
Main Audience: Researcher
Invited?: Yes
78. (1998). Molecular and Electrophysiological Modulations following Stress and Anticholinesterases. European Society for Neurochemistry, St.Petersburg,
Main Audience: Researcher
Invited?: Yes
79. (1997). The Blood-Brain Barrier and Stress. The Blood-Brain Barrier and Stress Chronic Fatigue Syndrome, Dublin, Ireland
Main Audience: Researcher
Invited?: Yes, Keynote?: No
80. Fleidervish,I., Friedman,A. and Gutnick,M.J.(1994). Slow inactivation of transient and persistent sodium currents in neocortical neurons. Society for Neuroscience,
Main Audience: Researcher
Description / Contribution Value: Abs.20(1-2):727
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Main Audience: Researcher
Description / Contribution Value: Abstracts 67
82. Reuveni,I., Friedman,A. and Gutnick,M.J.(1992). Non-homogeneous distribution of calcium electrogenesis along the dendrites of neocortical pyramidal neurons. 22nd Annual Meeting of the Society for Neuroscience,
Main Audience: Researcher
83. Amitai,Y., Friedman,A., Connors,B.W. and Gutnick,M.J.(1991). Dendritic electrogenesis in neocortical neurons in vitro. 21st Annual Meeting of the Society for Neuroscience,
Main Audience: Researcher

84. Chagnac-Amitai, Y., Friedman, A., Connors, B.W. and Gutnick, M.J. (1990). Dendritic spike generation in neocortical neurons in-vitro. 13th Annual Meeting of the European Neuroscience Association, Main Audience: Researcher
85. Gutnick, M.J., Friedman, A., White, E.L. and Segev, I. (1990). Influence of spine dimensions on synaptic processing: detailed compartmental model of an EM reconstructed spiny stellate cell in mouse barrel cortex. 13th Annual Meeting of the European Neuroscience Association, Main Audience: Researcher
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Journal Articles

1. Dan Milikovsky, Itai Weissberg, Lina Solomon-Kamintsky, Kristina Lippmann, Osnat Schefenbauer, Federica Frigerio, Massimo Rizzi, Liron Sheintouch, Daniel Zelig, Jonathan Ofer, Annamaria Vezzani and Alon Friedman. (2017). Electrocorticographic dynamics as a novel biomarker in five models of epileptogenesis. The Journal of Neuroscience,.
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Number of Contributors: 12
2. Guy Bar-Klein, Svetlana Lublinsky, Lina Solomon-Kamintsky, Iris Noyman, Ronel Veksler, Hotjensa Dalipaj, Vladimir V. Senatorov Jr., Evyatar Swissa, Dror Rosenbach, Netta Elazary, Dan Z. Milikovsky, Nadav Milk, Michael Kassirer MD, Yossi Rosman MD, Yonatan Serlin, Arik Eisenkraft, Yoash Chassidim, Yisrael Parmet, Daniela Kaufer and Alon Friedman. (2017). **Imaging blood-brain barrier dysfunction as a biomarker for epileptogenesis.** . Brain. in press
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Refereed?: Yes, Open Access?: No
Number of Contributors: 18
Contribution Percentage: 81-90
Description of Contribution Role: Supervisor, PI and corresponding author
Funding Sources: Canadian Institutes of Health Research (CIHR) - PJT 148896
3. Teresa Ravizza, Filiz Y. Onat, Amy R. Brooks -Kayal, Antoine Depaulis, Aristeia S. Galanopoulou, Andrey Mazarati, Adam L. Numis, Raman Sankar, and Alon Friedman. (2016). WONOEP appraisal: Biomarkers of epilepsy-associated comorbidities. Epilepsia.
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4. Rotem Saar-Ashkenazy, Ronel Veksler, Jonathan Guez, Yael Jacob, Ilan Shelef, Hadar Shalev, Alon Friedman and Jonathan E. Cohen. (2016). Breakdown of Interhemispheric Connectivity is associated with Posttraumatic Symptomatology and Memory Impairment. PLoS ONE 11(2): e0144766. doi:10.1371/journal.pone.0144766. 11(2): 1371.
<http://dx.doi.org/http://dx.doi.org/10.1371/journal.pone.0144766>
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 Number of Contributors: 8
 Editors: Christian Schmahl, Central Institute of Mental Health, GERMANY
5. Massimo Rizzi, Itai Weissberg, Dan Z. Milikovsky & Alon Friedman. (2016). Following a potential epileptogenic insult, prolonged high rates of nonlinear dynamical regimes of intermittency type is the hallmark of epileptogenesis. Scientific Reports. 6(31129): 31129.
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 Number of Contributors: 7
7. Karl Martin Klein, Manuela Pendziwiat, Rony Cohen, Silke Appenzeller, Carolien G. F. de Kovel, Felix Rosenow, Bobby P. C. Koeleman, Gregor Kuhlenbaumer, Liron Sheintuch, Ronel Veksler, Alon Friedman, Zaid Afawi, Ingo Helbig. (2016). Autosomal dominant epilepsy with auditory features: a new LGI1 family including a phenocopy with cortical dysplasia. J Neurol. 263: 11–16.
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 Number of Contributors: 13
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 Co-Author
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Co-Author
Published,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 90
11. Udi Vazana, Ronel Veksler ,Gaby S. Pell*, Ofer Prager, Michael Fassler ,Yoash Chassidim ,Yiftach Roth, Hamutal Shahr, Abraham Zangen, Ruggero Raccach, Emanuela Onesti, Marco Ceccanti, Claudio Colonnese, Antonio Santoro, Maurizio Salvati, Alessandro D'Elia, Valter Nucciarelli, Maurizio Inghilleri, and Alon Friedman. (2016). Glutamate-mediated blood-brain barrier opening: Implications for neuroprotection and drug delivery. *The Journal of Neuroscience*. 36(29): 7727-7729.
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Description / Contribution Value: **SIGNIFICANCE STATEMENT** In this study, we reveal a new mechanism that governs blood–brain barrier (BBB) function in the rat cerebral cortex, and, by using the discovered mechanism, we demonstrate bidirectional control over brain endothelial permeability. Obviously, the clinical potential of manipulating BBB permeability for neuroprotection and drug delivery is immense, as we show in preclinical and proof-of-concept clinical studies. This study addresses an unmet need to induce transient BBB opening for drug delivery in patients with malignant brain tumors and effectively facilitate BBB closure in neurological disorders.
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Number of Contributors: 15
- [13.](#) Yonatan Serlin, Tali Shafat, Jaime Levy, Aaron Winter, Marina Shneck, Boris Knyazer, Yisrael Parmet, Hadar Shalev, Ehud Ur, Alon Friedman. (2016). **Angiographic Evidence of Proliferative Retinopathy Predicts Neuropsychiatric Morbidity in Diabetic Patients**. *Psychoneuroendocrinology*. 67: 163-170.
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 Number of Contributors: 14
22. Alon Friedman and Daniela Kaufer. (2015). Blood-brain barrier in health and disease. *Seminars in Cell and Developmental Biology*. 38: 1.
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 Number of Contributors: 2
23. Shai Shrot, Erez Ramaty, Yoav Biala, Guy Bar-Klein, Moshe Daninos, Lyn Kamintsky, Igor Makarovsky, Liran Stadlander, Yossi Rosman, Amir Krivoy, Ophir Layon, Michael Kasirer, Alon Friedman and Yoel Yaari. (2014). Prevention of organophosphate-induced chronic epilepsy by early benzodiazepine treatment. *Toxicology*. 323: 19-25.
 Co-Author
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 Number of Contributors: 14
 Description / Contribution Value: Impact Factor 3.763
- [24.](#) Guy Bar-Klein, Evyatar Swissa, Lyn Kamintsky, Tawfeeq Shekh-Ahmad, Rotem Saar-Ashkenazy, Yechiel Hubary, Shai Shrot, Liran Stetlander, Arik Eisenkraft, Alon Friedman, and Meir Bialer. (2014). *sec*-Butyl-propylacetamide (SPD) and two of its stereoisomers rapidly terminate paraoxon-induced status epilepticus in rats. *Epilepsia*. 55(12): 1953–1958.
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- [26.](#) Theodore E. Nash,*, Siddhartha Mahanty, Jeffrey A. Loeb, William H. Theodore, Alon Friedman, Josemir W. Sander, Gagandeep Singh, Esper Cavalheiro, Oscar H. Del Brutto, Osvaldo M. Takayanagui, Agnes Fleury, Manuela Verastegui, Pierre-Marie Preux, Silvia Montano, E. Javier Pretell, A. Clinton White Jr, Armando E. Gonzales, Robert H. Gilman and Hector H. Garcia. (2014). Neurocysticercosis: A natural human model of epileptogenesis. *Epilepsia*. 55: 1452-1459.
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- [29.](#) Karl Schoknecht, Ofer Prager, Udi Vazana, Lyn Kamintsky, Denise Harhausen, Marietta Zille, Lena Figge, Yoash Chassidim, Eyk Schellenberger, Richard Kovács, Uwe Heinemann and Alon Friedman. (2014). Monitoring stroke progression: in vivo imaging of cortical perfusion, blood-brain barrier permeability and cellular damage in the rat photothrombosis model. Journal of Cerebral Blood Flow & Metabolism. 34: 1791–1801.
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Number of Contributors: 7
Description / Contribution Value: Impact 4.24
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