Professor Alon Friedman

Correspondence language: English
Sex: Male
Date of Birth: 10/09
Canadian Residency Status: Canadian Citizen
Country of Citizenship: Canada, Israel

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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Website

Personal	http://medicine.dal.ca/departments/department-sites/medical-neuroscience/our-people/our-faculty/alon
Personal	https://www.bbbscience.com/
	http://fohs.bgu.ac.il/neurophysio/about.shtml

Professor Alon Friedman

Degrees

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

Recognitions

2024/3	Award for excellence in research for comprehensive and diverse approaches in studying traumatic brain injury and complications- Canadian Concussion Network Prize / Award
2014/7	The Dennis Chair in Epilepsy Research Dalhousie University Distinction The William Dennis Chair in Pediatric Epilepsy Research is the first of its kind in Canada and was created to increase new knowledge and understanding of epilepsy. Epilepsy is a neurological disorder affecting approximately one per cent of the population. The disorder is a common one, and funding for this research can lead to better treatments capable of helping a greater number of people. The support of the William Dennis Fund and the establishment of the William Dennis Chair will: Develop a research program of excellence and international stature, turn new information into improved care for epilepsy, train future neurologists in basic research on epilepsy, bring international attention to the quality of research at Dalhousie University, reinforce the region's ability to recruit and retain health professionals and strengthen the region as a strong, viable place to work and live. Research Disciplines: Neurosciences Areas of Research: Convulsive Disorders/ Epilepsy Fields of Application: Pathogenesis and Treatment of Diseases
2013/1	Dr. Helena Rachmanska-Putzman Chair in Neurology Ben-Gurion University of the Negev Distinction

2009/1	The Moritz Heinrich Romberg Visiting Professorship Charite Medical University , Stroke Center Honor
2009/1	The Students Excellency Award for Teaching Ben-Gurion University of the Negev Honor
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 Technolgy, The Bruce Rappaport Faculty of Medicine, Prize / Award
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: My research focuses on the pathophysiology of brain disorders and the effects of stress on the nervous system. My group is involved in a multidisciplinary, human and animal research studying novel therapies for the prevention and treatment of brain diseases, specifically injury-related epilepsy and neurodegeneration.

Countries: Germany, United States of America, Ireland, Italy

Employment

2020/1 - 2026/1	Founder Mend Neuroscience Co-founder of Mend Neuroscience, a start-up company continuing the development of new therapeutics targeting the blood-brain barrier Research Disciplines: Neurosciences

2016/7 - 2026/1 Founder
Emagix
Part-time
Founding and CEO of EMAGIX.Inc. A startup company developing new diagnostics for retinal and brain disorders

Research Disciplines: Neurosciences

Areas of Research:

Affiliations

The primary affiliation is denoted by (*)

2018/1 The Dr. Helena Rachmanska-Putzman Chair in Neurology at Ben-Gurion University, Israel, Neurology, Ben-Gurion University of the Negev

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

Research Funding History

Awarded [n=28]

2023/4 - 2028/3
Principal Investigator
Diagnosis and Treatment of Blood-Brain Barrier Leakage in Repetitive Mild Traumatic Brain Injury, Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2023/4 - 2028/3 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 887,400 (Canadian dollar)
Funding Competitive?: Yes

Co-applicant : Chris Bowen; David Clarke; Gerben van Hameren; Kim Brewer; Lyna Kamintsky; Mark MacLean; Nelofar Kureshi;

Collaborator : Tina Atkinson

2022/4 - 2027/3
Principal Investigator
Microvascular Pathology as a Therapeutic Target for Epilepsy, Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2022/4 - 2027/3 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 849,150 (Canadian dollar)
Portion of Funding Received - 849,150 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Benjamin Whatley; Chris Bowen; David Clarke; David Volders; Lyna Kamintsky; Mark MacLean; Matthias Schmidt; Nelofar Kureshi; Stephen Beyea;

Collaborator : Alexander Easton

2022/10 - 2026/9
Co-investigator
The blood-brain barrier as a target for diagnosis and treatment in epilepsy, Grant, Operating
Clinical Research Project?: Yes
Project Description: **Project Goals:** Using our well-established approach (dynamic-contrast-enhanced MRI), we will characterize, for the first time, the frequency and localization of BBBD in patients with epilepsy. In a complementary pre-clinical study, we

will test for overlap between BBBD and the seizure onset zone and test the efficacy of BBB-repair as an intervention in a rat model of epilepsy.

Funding Sources:

2022/10 - 2026/9 US-Israel Binational Science Foundation
Science Foundation
Total Funding - 309,327 (Canadian dollar)
Portion of Funding Received - 122,962 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes
Funding Reference Number: 2021133

Co-investigator : Daniela Kaufer; Felix Benninger

2022/2 - 2026/1
Co-investigator

Longitudinal MRI Investigation of Traumatic Microvascular Injury, Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2022/2 - 2026/1 National Institutes of Health (NIH) (USA)
PA-20-185
Total Funding - 4,945,441 (Canadian dollar)
Portion of Funding Received - 163,548 (Canadian dollar)
Funding Competitive?: Yes

Principal Applicant : Dr. Jeffrey Ware

2020/10 - 2025/9
Principal Applicant

The Blood-Brain Barrier as a Target for the Diagnosis and Treatment of Neurological Disorders, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2020/10 - 2025/9 Israel Science Foundation (Israel)
Science Foundation
Total Funding - 528,377 (Canadian dollar)
Portion of Funding Received - 528,377 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes
Funding Reference Number: 2254/20

Co-investigator : Merav Shamir; Ofer Prager

2023/9 - 2025/8
Principal Investigator

Cures Within Reach - Losartan for Individuals With Epilepsy in Zambia, Grant, Operating
Clinical Research Project?: Yes

Funding Sources:

2023/9 - 2025/8 Cures Within Reach
Cures within Reach
Total Funding - 67,950
Portion of Funding Received - 67,950 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2024/5 - 2025/4
Co-investigator

Brain Repair Center Innovation Grant: Test the relationship between PSWEs and the epileptogenic zone as a potential biomarker of epilepsy., Grant, Operating

Funding Sources:

2024/5 - 2025/4
Brain Repair Center
Innovation and Technology
Total Funding - 30,000 (Canadian dollar)
Portion of Funding Received - 30,000 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

2018/8 - 2024/3
Principal Investigator
Neuroanatomical and neurofunctional assessment in acquired brain injury, Contract
Clinical Research Project?: Yes

Funding Sources:

2018/8 - 2024/3
Global Affairs Canada
Government grant
Total Funding - 1,414,781 (Canadian dollar)
Portion of Funding Received - 1,414,781 (Canadian dollar)
Funding Renewable?: Yes
Funding Competitive?: No

2020/2 - 2023/1
Co-investigator
Early mechanistic biomarkers for late epilepsy and long-term brain injury outcome, Grant, Operating

Funding Sources:

2020/2 - 2023/1
Network of European Funding for Neuroscience Research
NEURON
Total Funding - 675,000 (Canadian dollar)
Portion of Funding Received - 224,760
Funding Competitive?: Yes

Co-investigator : AnnaMaria Vezzani; Jens Dreier

2021/1 - 2022/12
Principal Investigator
Ramsay Grant Program Blood-Brain Barrier Imaging as a Biomarker for ME/CFS, Grant
Clinical Research Project?: No

Funding Sources:

2021/1 - 2022/12
Ramsay
Ramsay Grant Program
Total Funding - 53,000 (Canadian dollar)
Portion of Funding Received - 53,000 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

Funding by Year:

2021/1 - 2022/12
Total Funding - 53,000 (Canadian dollar)
Portion of Funding Received - 53,000 (Canadian dollar)

2018/3 - 2022/9
Co-investigator
Characterization of Brain Dysfunction with Multi-Modal Functional Neuroimaging in Patients with SLE and Cognitive Impairment, Grant, Operating

Funding Sources:

2018/4 - 2022/9
Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 600,000 (Canadian dollar)
Portion of Funding Received - 45,000 (Canadian dollar)
Funding Renewable?: No
Funding Competitive?: Yes

Funding by Year:

2018/4 - 2022/9
Total Funding - 600,000 (Canadian dollar)
Portion of Funding Received - 45,000 (Canadian dollar)

Co-investigator : Javeria Hashmi.; John Fisk; Steven Beyea;

Principal Investigator : John Hanly

2017/10 - 2021/7
Principal Investigator

TGF-beta Signaling in Post-Traumatic Epileptogenesis: A Critical Role in Post-Traumatic Epilepsy, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2017/10 - 2020/9
Department of Defense (USA)
Foundation Award
Total Funding - 765,315 (Canadian dollar)
Portion of Funding Received - 362,508
Funding Competitive?: Yes

Co-investigator : Daniela Kaufer

2016/7 - 2021/6
Principal Investigator

Microvascular injury and blood-brain barrier dysfunction as novel biomarkers and targets for treatment in traumatic injury, Grant, Operating

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

Co-investigator : Christopher Bowen; David Clarke; Matthias Schmidt; Rob Green

2015/10 - 2020/9
Principal Investigator

The Blood-Brain Barrier as a Target for the Diagnosis and Treatment of Acquired Brain Injuries, Grant, Operating

Funding Sources:

2015/10 - 2020/9
Israel Science Foundation (Israel)
Regular Research Program
Total Funding - 230,000 (Israeli new sheqel)
Portion of Funding Received - 230,000
Funding Competitive?: Yes

Co-investigator : Merav Shamir

2018/4 - 2019/3
Principal Investigator

Mechanisms underlying neural activity-dependent albumin transport across brain endothelium, Grant, Operating

Funding Sources:

2018/4 - 2019/3
Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grants Program
Total Funding - 29,000 (Canadian dollar)
Portion of Funding Received - 29,000
Funding Competitive?: Yes

2014/12 - 2018/12
Principal Investigator

The Role of the Blood-Brain Barrier Dysfunction in Acquired Epilepsy, Grant, Equipment
Clinical Research Project?: No

Research Settings: Canada (Urban)

Funding Sources:

2014/12 - 2018/12 Canada Foundation for Innovation (CFI)
John Evans Leaders Fund
Total Funding - 493,527 (Canadian dollar)
Portion of Funding Received - 493,527
Funding Renewable?: No
Funding Competitive?: Yes
Funding Reference Number: 32806

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

2017/11 - 2018/10
Principal Investigator

Therapeutic efficacy of ultra-low dose of cannabinoids in a rat repetitive mild brain injury model, Contract
Clinical Research Project?: No

Funding Sources:

2017/11 - 2018/10 Therapix
Contract
Total Funding - 66,760 (Canadian dollar)
Portion of Funding Received - 66,760
Funding Renewable?: No
Funding Competitive?: Yes

2015/9 - 2018/8
Principal Investigator

The Role of Blood-Brain Barrier Dysfunction and TGF-beta Mediated Signaling in Post-Traumatic Epileptogenesis, Grant, Establishment
Clinical Research Project?: No

Research Settings: Canada (Urban)

Funding Sources:

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

Funding by Year:

2015/9 - 2018/8 Total Funding - 144,851 (Canadian dollar)
Portion of Funding Received - 144,851 (Canadian dollar)

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Fields of Application: Biomedical Aspects of Human Health

2016/12 - 2018/7
Principal Investigator

Development of Image Analysis Technology for the Early Stage Diagnosis of Diabetes Retinopathy, Grant

Funding Sources:

2016/12 - 2018/1 Innovacorp
Early Stage Commercialization Fund
Total Funding - 45,000 (Canadian dollar)
Portion of Funding Received - 45,000
Funding Competitive?: Yes

2013/1 - 2017/12
Principal Investigator

Targets and biomarkers for anti epileptogenesis, Grant, Operating

Funding Sources:

2013/1 - 2017/12 7th Framework Programme: Collaborative Project
EPITARGET
Total Funding - 300,000 (United States dollar)
Portion of Funding Received - 300,000 (United States dollar)
Funding Competitive?: Yes

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Fields of Application: Pathogenesis and Treatment of Diseases

2014/10 - 2017/9
Co-investigator

Transforming Growth Factor Beta Signaling Following Traumatic Brain Injury as a Target for the Prevention of Acquired Epilepsy, Grant, Operating

Funding Sources:

2014/10 - 2017/9 CURE Foundation, USA
Cure for Epilepsy
Total Funding - 250,000 (United States dollar)
Portion of Funding Received - 110,000 (United States dollar)
Funding Competitive?: Yes

Co-investigator : Daniela Kaufer

2016/4 - 2017/4
Principal Investigator

Customization, implementation and testing of an image analysis algorithm in regards to UWFFA data, Grant, Operating

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
Co-investigator

Structural and functional connectivity alterations in stress exposed individuals, Grant

Funding Sources:

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

2014/1 - 2016/12
Co-investigator

The role of blood-brain barrier dysfunction and albumin-induced TGF-beta signaling in neuronal plasticity and associated network modifications, Grant, Operating

Funding Sources:

2014/1 - 2016/12 German Science Foundation (DFG)
Research
Total Funding - 313,000 (Euro)
Portion of Funding Received - 100,000
Funding Competitive?: Yes

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Fields of Application: Pathogenesis and Treatment of Diseases

Co-investigator : Uwe Heinemann

2013/1 - 2015/12
Co-investigator

Victims of War: Contribution of the Cholinergic System to the Development of PTSD in Palestine and Israel, Grant, Operating
Clinical Research Project?: Yes

Research Settings: Israel, Germany

Funding Sources:

2013/1 - 2015/12 German Science Foundation
Trilaterial Program
Total Funding - 300,000 (Euro)
Portion of Funding Received - 60,000
Funding Competitive?: Yes

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

2012/1 - 2015/12
Co-investigator

Spreading Depolarization in Small Vessel Disease, Grant, Operating

Funding Sources:

2012/1 - 2015/12 ERA-NET
SDSVD European Research Projects on Cerebrovascular diseases
Total Funding - 180,000 (Euro)
Portion of Funding Received - 60,000
Funding Competitive?: Yes

Co-investigator : Brian MacVicar; Jens Dreier

2014/11 - 2015/10
Co-investigator

TGF-beta Mediated Inflammatory Signaling: a critical role in epileptogenesis, Grant

Funding Sources:

2009/1 - 2012/1 National Institute of Health (RO1)
Neurology / Epileptology
Total Funding - 494,000 (United States dollar)
Portion of Funding Received - 100,000
Funding Competitive?: Yes

Principal Applicant : Daniela Kaufer

2014/7 - 2015/6
Principal Investigator

In-vivo Seizure Recording, Grant, Equipment
Clinical Research Project?: No

Research Settings: Canada (Urban)

Funding Sources:

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

Funding by Year:

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

Research Disciplines: Neurosciences

Areas of Research: Convulsive Disorders/ Epilepsy

Courses Taught

	Lecturer-Instructor, Dalhousie University Course Title: Principles of Neuroscience Course Level: Graduate Number of Students: 10 Lab Hours Per Week: 4
	Lecturer-Instructor, Dalhousie University Course Title: Principles of Medical Neuroscience Course Level: Graduate Number of Students: 10 Lecture Hours Per Week: 2
2021/01/01 - 2021/04/30	, Medical Neuroscience, Dalhousie University Course Title: Graduate Neuroanatomy Course Code: ANAT 5100 Course Level: Graduate Academic Session: Winter Number of Students: 10 Lecture Hours Per Week: 2
2020/09/01 - 2020/12/31	, Medical Neuroscience, Dalhousie University Course Title: Current topics in Neuroscience Course Code: NESC 6100 Course Level: Graduate Academic Session: Fall Number of Students: 13 Lecture Hours Per Week: 4

Student/Postdoctoral Supervision

Bachelor's Honours [n=14]

2024/9 - 2025/4
Principal Supervisor
Madison Dunbar (In Progress) , Dalhousie University
Student Degree Start Date: 2024/9
Thesis/Project Title: Does memantine, losartan, or a combination decrease fibrinogen leakage from the blood-brain barrier and microglial reactivity in a rat model of traumatic brain injury.
Present Position: Honours Student

2023/9 - 2024/4
Principal Supervisor
Sophie Orr (Completed) , Dalhousie University
Student Degree Start Date: 2023/9
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Mitochondrial Functional Adaptation to Neuronal Activation
Present Position: Research Assistant, Dalhousie University

2023/9 - 2024/4
Principal Supervisor
Linzhi Wu (Completed) , Dalhousie University
Student Degree Start Date: 2023/9
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Mitochondrial function as a target in post-traumatic epilepsy
Present Position: Research Assistant

2022/8 - 2023/5
Principal Supervisor
Sammy Pham (Completed) , Dalhousie University
Student Degree Start Date: 2022/9
Student Degree Received Date: 2023/4
Student Canadian Residency Status: Student Work Permit
Thesis/Project Title: The effect of neuroinflammation on blood-brain barrier repair after traumatic brain injury
Present Position: Graduate Student, Dalhousie University

2022/8 - 2023/5
Principal Supervisor
Sina Lash (Completed) , Dalhousie University
Specialization: EEG Analysis
Student Degree Start Date: 2022/9
Student Degree Received Date: 2023/4
Student Canadian Residency Status: Permanent Resident
Thesis/Project Title: Sudden slow electroencephalography (EEG) activity in untreated epilepsy patients in Zambia compared to treated epilepsy patients in the United States
Present Position: Research Staff, Friedman Lab Dalhousie University

2022/8 - 2023/5
Principal Supervisor
Keiran Andrews (Completed) , Dalhousie University
Student Degree Start Date: 2022/9
Student Degree Received Date: 2023/4
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Mitochondrial dysfunction and oxidative stress – Na+/K+ ATPase activity during neurometabolic challenges
Present Position: Research Assistant, Dalhousie University

2022/8 - 2023/5
Principal Supervisor
Caitlin McKenna (Completed) , Dalhousie University
Degree Name: BSc. Nursing
Specialization: Health
Student Degree Start Date: 2022/9
Student Degree Received Date: 2023/4
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: The effect of hypoxia on blood-brain barrier opening following traumaticbrain injury
Present Position: Nursing Degree, Dalhousie University

2021/7 - 2022/5
Principal Supervisor
Anna Minarik (Completed) , Dalhousie University
Student Degree Start Date: 2021/9
Student Degree Received Date: 2022/5
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: The effects of spreading depolarization following traumatic brain injury on cell morphology and function
Present Position: Clinical Research Coordinator, Department of Epileptology- University of Bonn

2019/9 - 2020/8
Principal Supervisor
Nofar Shemen (Completed) , Ben-Gurion University
Student Degree Start Date: 2019/9
Student Degree Received Date: 2021/8
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Blood-brain barrier dysfunction and MRI analysis
Project Description: Undergraduate Research Project
Present Position: Graduate Student, Weizmann Institute
Student Country of Citizenship: Israel

2019/9 - 2020/9
Principal Supervisor
Alaa Abu Ahmad (Completed) , Ben-Gurion University
Student Degree Start Date: 2019/9
Student Degree Received Date: 2020/9
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The Role of Blood-Brain Barrier Dysfunction in Traumatic Stress-Induced Neural Complications
Present Position: Graduate Student PhD, Ben-Gurion University-Dalhousie University
Student Country of Citizenship: Israel

2019/4 - 2020/4
Principal Supervisor
Griffin Mumby (Completed) , Dalhousie University
Student Degree Start Date: 2019/9
Student Degree Received Date: 2020/4
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: TGF-beta inhibition as a treatment for blood-brain barrier and cortical network slowing in repetitive mild traumatic brain injury
Present Position: Medical Resident, University of Calgary
Student Country of Citizenship: Canada

2019/3 - 2020/4
Principal Supervisor
Isabelle Roach (Completed) , Dalhousie University
Student Degree Start Date: 2019/9
Student Degree Received Date: 2020/4
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: The retinal blood barrier and traumatic brain injury
Present Position: Rhodes Scholar Graduate Student, Oxford University
Student Country of Citizenship: Canada

2018/6 - 2019/5
Principal Supervisor
Klara Doelle (Completed) , Dalhousie University
Student Degree Start Date: 2018/9
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Acute Convulsive Seizures, Blood-Brain Barrier Disruption, and Cognitive Impairment in a Rat Model of Moderate Traumatic Brain Injury
Present Position: PhD Graduate Student, University of Ottawa
Student Country of Citizenship: Canada

2017/9 - 2018/4
Principal Supervisor

Jillian Newton (Completed) , Dalhousie University
Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/4
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Early onset brain pathology as a biomarker for sensitivity to traumatic brain injury
Present Position: Lawyer, Dalhousie University
Student Country of Citizenship: Canada

Master's Thesis [n=33]

2024/9 - 2026/8
Principal Supervisor

Aminat Mustapha (In Progress) , Dalhousie University
Student Degree Start Date: 2024/9
Student Canadian Residency Status: Study Permit
Thesis/Project Title: The endocannabinoid system as it pertains to BBB leakage in TBI and epilepsy models.
Student Country of Citizenship: Nigeria

2024/9 - 2026/8
Principal Supervisor

Joshua-Adache Ojile (In Progress) , Dalhousie University
Student Degree Start Date: 2024/9
Student Canadian Residency Status: Study Permit
Thesis/Project Title: Human imaging for traumatic brain injury
Student Country of Citizenship: Nigeria

2023/9 - 2025/8
Principal Supervisor

Laith Alhadeed (In Progress) , Dalhousie University
Student Degree Start Date: 2023/9
Student Degree Expected Date: 2025/8
Student Canadian Residency Status: Permanent Resident
Thesis/Project Title: Paraoxomal Slow Wave Events in a TBI Study
Present Position: Graduate Student MSc, Dalhousie University
Student Country of Citizenship: Jordan

2023/9 - 2025/8
Principal Supervisor

Abdulla AlShanti (In Progress) , Dalhousie University
Student Degree Start Date: 2023/9
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Diagnosis and Treatment of Blood-Brain Barrier Leakage in Repetitive Mild Traumatic Brain Injury
Present Position: Graduate MSc Student, Dalhousie University

2023/9 - 2025/8
Principal Supervisor

Sammy Pham (In Progress) , Dalhousie University
Degree Name: MSc
Student Degree Start Date: 2023/9
Student Canadian Residency Status: Study Permit
Thesis/Project Title: TBI Microvessel Isolation
Present Position: Graduate Student, Dalhousie University
Student Country of Citizenship: Viet Nam

2023/5 - 2025/4
Principal Supervisor

Wali Khan (In Progress) , Dalhousie University
Degree Name: MSc
Student Degree Start Date: 2023/5
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Stress and Corticosterone levels in a Female TBI Model
Present Position: Graduate MSc Student, Dalhousie University
Student Country of Citizenship: Canada

2023/3 - 2025/6 Principal Supervisor	Mazal Partook (In Progress) , Ben Gurion University Student Degree Start Date: 2023/3 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Biochemical, neuroanatomical and behavioral correlates of stress susceptibility in rats Present Position: Graduate MSc Student BGU
2023/1 - 2025/12 Principal Supervisor	Sheizaf Shpilberg (In Progress) , Ben Gurion University Student Degree Start Date: 2023/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: - Neuroanatomical and neurofunctional assessment in acquired brain injury.- Imaging BBB breakdown as a diagnostic and predictive biomarker in age-related cognitive impairments.- R406H mutation in STXBP1 gene as a target for therapy in epileptic encephalopathies and related neurodevelopmental disorders. Present Position: Graduate Student, Ben Gurion University Student Country of Citizenship: Israel
2022/1 - 2024/12 Principal Supervisor	Sol Amara (In Progress) , Ben Gurion University Student Degree Start Date: 2022/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Electroencephalogram data-based analysis of paroxysmal slow wave events patterns in brain pathologies Present Position: Graduate Student, Ben Gurion University Student Country of Citizenship: Israel
2021/9 - 2024/8 Principal Supervisor	Mila Gelfond (In Progress) , Ben Gurion University Student Degree Start Date: 2021/9 Student Degree Expected Date: 2024/11 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Imaging BBB permeability in MCI patients Present Position: Graduate Student MSc, Ben-Gurion University Student Country of Citizenship: Israel
2020/10 - 2023/6 Principal Supervisor	Alaa Abu Ahmad (Completed) , Ben-Gurion University Degree Name: PhD Student Degree Start Date: 2020/10 Student Degree Received Date: 2023/6 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The Role of Blood-Brain Barrier Dysfunction in Traumatic Stress-Induced Neural Complications Present Position: Graduate PhD Student, Ben-Gurion University-Dalhousie University Student Country of Citizenship: Israel
2019/10 - 2021/10 Principal Supervisor	Ayala Tabak (Completed) , Ben-Gurion University Degree Name: MSc Student Degree Start Date: 2019/10 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Age-dependent changes in regional blood-brain barrier permeability: A contrast-enhanced MRI study Present Position: Graduate Student, Ben-Gurion University Student Country of Citizenship: Israel

2019/9 - 2021/8 Principal Supervisor	Lior Schori (Completed) , Ben-Gurion University Student Degree Start Date: 2019/9 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Hypertensive rats as a model for blood-brain barrier disruption Present Position: Research Associate, Kadimastem-Biotechnology Company, Nes-Ziona, Israel Student Country of Citizenship: Israel
2018/10 - 2021/4 Principal Supervisor	Uri Monsonego (Completed) , Ben-Gurion University Student Degree Start Date: 2018/10 Student Degree Received Date: 2021/4 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The mechanisms underlying blood-brain barrier modulation in response to neuronal activation Present Position: Israeli Army, Israeli Government Student Country of Citizenship: Israel
2017/9 - 2019/8 Principal Supervisor	Olumide Adegunna (Completed) , Dalhousie University Student Degree Start Date: 2017/9 Student Degree Received Date: 2019/8 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: The role of blood-brain barrier pathology in post-traumatic epilepsy and its co-morbidities Present Position: PGY4 Neurology resident, University of Toronto/University Health Network
2015/10 - 2018/12 Principal Supervisor	Dror Rosenbach (Completed) , Ben-Gurion University Student Degree Start Date: 2015/10 Student Degree Received Date: 2018/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Mechanisms underlying neurodegeneration following mild traumatic brain injury Present Position: PhD Graduate Student Ben-Gurion University Student Country of Citizenship: Israel
2015/10 - 2017/10 Principal Supervisor	Netta Elazari (Completed) , Ben-Gurion University Student Degree Start Date: 2015/10 Student Degree Received Date: 2017/10 Student Canadian Residency Status: Not Applicable Thesis/Project Title: MRI Study Present Position: Research Associate, Ben-Gurion University Student Country of Citizenship: Israel
2015/1 - 2018/1 Principal Supervisor	Evyatar Swissa (Completed) , Ben-Gurion University Student Degree Start Date: 2015/1 Student Degree Received Date: 2018/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: New approaches for pharmacological prevention of paraoxon-induced brain damage Present Position: Post-Doctorial Fellow, Ben-Gurion University Student Country of Citizenship: Israel

2010/1 - 2013/12 Principal Supervisor	Chen Tiferet (Completed) , Ben-Gurion University Student Degree Start Date: 2010/1 Student Degree Received Date: 2013/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The effect of stress and perceptual load on selective attention using behavioural and EEG measurements The effect of stress on the interaction between attention and emotion perception using a cognitive load paradigm to find the role of attention in emotional visual perception, in stressed and non-stressed healthy subjects and to look for the electrical pattern underlying the emotional perception under these conditions Present Position: Professor in the Psychology Department at CUNY Queens College, CUNY Queens College Student Country of Citizenship: Israel
2009/8 - 2011/9 Principal Supervisor	Lavi Shachar (Completed) , Ben Gurion University Student Degree Start Date: 2009/8 Student Degree Received Date: 2011/9 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Clinical research, signal processing and data analysis with humans Location of participating areas of the brain that help processing unconsciously perceived visual stimuli, the order of their activation, and the relevant frequencies used in this process. Present Position: Product Manager-Algorithm Engineer, Applied Materials, Israel Student Country of Citizenship: Israel
2009/1 - 2012/12 Co-Supervisor	Etti Ashkenazi (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 Signal processing, EEG signals, to predict epileptic seizures, using methods from both EEG and speech processing fields Present Position: Biomedical Engineer, Israel Student Country of Citizenship: 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 Present Position: Tel-Aviv University Student Country of Citizenship: Israel
2009/1 - 2012/12 Co-Supervisor	Netalee 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 The improvement of Interictal Epilpetiform Discharges (IEDs) detection and classification increases the efficiency of combined EEG source localization and fMRI as complementary methods for non-invasive localization of the epileptic source Automated IED classification can result in objective BOLD response models of IEDs and lead to improvement of non-invasive pre surgical localization of interictal epileptiform activity Present Position: Weizmann Institute Student Country of Citizenship: Israel

2009/1 - 2012/12 Principal Supervisor	Lyna Kamintsky (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 The development of technologies for the research and treatment of epilepsy, focused on the development of a reliable and unbiased system for the detection of epileptic seizures in real time. Present Position: Post-Doctoral Fellow Dalhousie University Student Country of Citizenship: Canada
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 with the focus on *in-vivo* electrophysiological recordings and molecular assays of epileptogenic processes and pathologies associated with blood-brain barrier dysfunction. a study of the mechanisms regulating BBB permeability and the following effects leading to potential therapeutic treatments for BBB-related processes, with the emphasis on post-traumatic epilepsy and other epileptogenic syndromes. Present Position: Executive Director of Research & Strategy, Neurocentria Inc 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 Present Position: Researcher Optoelectronics, The Institute of Photonic Sciences, Barcelona, Spain
2007/1 - 2009/1 Principal Supervisor	Yehudit Gnatek (Completed) , Ben-Gurion University Student Degree Start Date: 2007/1 Student Degree Received Date: 2010/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Cholinergic Modifications in Stress and Epileptogenesis Present Position: Senior Research Assistant, Sheba Tel Hashomer Hospital, Israel Student Country of Citizenship: 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: Signal processing and pattern recognition Present Position: Senior Computer Vision Researcher, Medtronic, Israel Student Country of Citizenship: Israel
2006/1 - 2010/1 Principal Supervisor	Yifat Bitan (Completed) , Ben-Gurion University Student Degree Start Date: 2006/1 Student Degree Received Date: 2010/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Stress-induced altered cholinergic-glutamatergic interactions in the mouse hippocampus Present Position: Surgical Neurophysiologist, Tel Aviv Sourasky Medical Center, Israel Student Country of Citizenship: Israel

2005/1 - 2008/12
Principal Supervisor

Shy Hefetz (Completed) , Ben-Gurion University
Student Degree Start Date: 2008/1
Student Degree Received Date: 2010/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: EEG Analysis and Signal Processing
Present Position: Chief Sicientist, Head of Bio-Medical Engineering, Hi-Sense, Israel
Student Country of Citizenship: Israel

2005/1 - 2010/12
Principal Supervisor

Assaf Kreh (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 Quantitative assessment of vascular permeability using dynamic contrast-enhanced MR imaging
Present Position: Chief MR Radiographer, Assuta Medical Center, Israel
Student Country of Citizenship: Israel

2003/1 - 2008/12
Principal Supervisor

Haviv Levi (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 protection in the photothrombotic stroke model
Present Position: Biomedical Engineer, R&D researcher in Pharmacology Department, Teva Pharmaceuticals, Israel

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: Director of the Intraoperative Neurophysiology Service Tel Aviv Sourasky Medical Center
Student Country of Citizenship: Israel

Doctorate [n=33]

2023/9 - 2027/8
Principal Supervisor

Alaa Abu Ahmad (In Progress) , Ben Gurion University
Student Degree Start Date: 2023/9
Student Degree Expected Date: 2027/8
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The Role of Blood-Brain Barrier Dysfunction in Traumatic Stress-Induced Neural Complications
Present Position: Graduate PhD Student, Ben-Gurion University

2022/8 - 2026/7
Principal Supervisor

Moussa Hamati (In Progress) , Dalhousie University
Student Degree Start Date: 2022/9
Student Degree Expected Date: 2026/7
Thesis/Project Title: Microvascular pathology as a therapeutic target for epilepsy
Present Position: Graduate Student PhD, Dalhousie University

2021/9 - 2025/8 Principal Supervisor	Hamza Imtiaz (In Progress) , Dalhousie University Student Degree Start Date: 2021/9 Student Degree Expected Date: 2025/8 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Biomarkers for brain disorders Present Position: Graduate Student PhD, Dalhousie University
2021/8 - 2025/8 Principal Supervisor	Jamil Muradov (In Progress) , Dalhousie University Student Degree Start Date: 2021/8 Student Degree Expected Date: 2025/7 Student Canadian Residency Status: Study Permit Thesis/Project Title: Exploring mechanisms underlying traumatic brain injury-related microvasculopathy Present Position: Graduate Student PhD, Dalhousie University Student Country of Citizenship: Azerbaijan
2020/9 - 2025/8 Principal Supervisor	Sheida Mirloo (In Progress) , Dalhousie University Student Degree Start Date: 2020/9 Student Degree Expected Date: 2025/8 Student Canadian Residency Status: Student Work Permit Thesis/Project Title: Processing, analyzing and implementing new algorithms for brain MR images Present Position: Graduate Student PhD, Dalhousie University Student Country of Citizenship: Iran
2020/7 - 2025/12 Principal Supervisor	Saara Mansoor (In Progress) , Dalhousie University Student Degree Start Date: 2020/7 Student Degree Expected Date: 2025/6 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Exploring the therapeutic effect of corticosterone to reduce repetitive mild TBI susceptibility Present Position: Graduate Student PhD, Dalhousie University Student Country of Citizenship: Canada
2019/9 - 2025/12 Principal Supervisor	Florent Boyer-Ayme (In Progress) , Ben-Gurion University Student Degree Start Date: 2019/9 Student Degree Expected Date: 2025/2 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Spreading depression in models of epilepsy Present Position: Graduate Student PhD, Ben-Gurion University Student Country of Citizenship: France
2018/9 - 2024/12 Principal Supervisor	Pooyan Moradi (In Progress) , Dalhousie University Student Degree Start Date: 2018/9 Student Degree Expected Date: 2025/9 Student Canadian Residency Status: Study Permit Thesis/Project Title: TGFß signalling and blood-brain barrier dysfunction as targets for treatment for repetitive mild traumatic brain injury Present Position: Graduate Student PhD, Dalhousie University

2017/9 - 2024/7 Principal Supervisor	Shayna Cort (Completed) , Dalhousie University Student Degree Start Date: 2017/9 Student Degree Received Date: 2024/7 Student Canadian Residency Status: Permanent Resident Thesis/Project Title: Blood-brain barrier Pathology as a Bio-markerand Target for Treatment of Traumatic Brain Injury and Post-traumatic epilepsy Present Position: Graduate Student PhD, Dalhousie University Medical School Student Country of Citizenship: Antigua and Barbuda
2017/1 - 2022/4 Principal Supervisor	Evyatar Swissa (Completed) , Ben-Gurion University Student Degree Start Date: 2017/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: BBB modulation in health and disease Present Position: Post Doctoral Fellow, Ben-Gurion University
2016/9 - 2020/3 Principal Supervisor	Refa't Abo Ghazleh (Completed) , Dalhousie University Student Degree Start Date: 2016/8 Student Degree Received Date: 2020/3 Student Canadian Residency Status: Study Permit Thesis/Project Title: The Role of Cortical Spreading Depolarizations in Traumatic Brain Injury Outcome Present Position: Lecturer Al-Balqa Applied University Jordan, Al-Balqa Applied University Student Country of Citizenship: Jordan
2016/9 - 2019/7 Principal Supervisor	Ellen Parker (Completed) , Dalhousie University Student Degree Start Date: 2016/8 Student Degree Received Date: 2019/7 Thesis/Project Title: Pro-inflammatory Transforming Growth Factor Beta Signalling as a Therapeutic Target for Repetitive Mild Traumatic Brain injury Present Position: Resident QE11, Dalhousie University Student Country of Citizenship: Canada
2015/9 - 2021/4 Principal Supervisor	Lyna Kamintsky (Completed) , Dalhousie University Specialization: MRI Student Degree Start Date: 2015/9 Student Degree Received Date: 2021/4 Student Canadian Residency Status: Permanent Resident Thesis/Project Title: Neuropsychiatric Correlates of Blood-Brain Barrier Leakage Present Position: Post-Doctoral Fellow, Dalhousie Univ. & Emagix Inc. (Mitacs Fellow), Dalhouise University Student Country of Citizenship: Canada
2015/1 - 2019/8 Principal Supervisor	Svetlana Lublinsky (Completed) , Ben-Gurion University Student Degree Start Date: 2015/1 Student Degree Received Date: 2019/8 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Dedicated image processing algorithm for quantitative assessment of BBB damage Present Position: Biomedical Engineer, Intel. Israel Student Country of Citizenship: Israel

2014/9 - 2019/9
Principal Supervisor

Yehuda Vazana (Completed) , Ben-Gurion University
Student Degree Start Date: 2014/9
Student Degree Received Date: 2019/9
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Glutamatergic modulation of Blood-Brain Barrier Permeability: Underlying Mechanisms and Therapeutic Implications
Present Position: Head of Directed Studies, Lahav Contract Research, Israel, Lahav Contract Research, Israel
Student Country of Citizenship: Israel

2012/10 - 2020/4
Principal Supervisor

Ronel Veksler (Completed) , Ben-Gurion University
Student Degree Start Date: 2012/10
Student Degree Received Date: 2020/4
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Development, Implementation and Evaluation of Imaging-Based Methods for Quantifying Blood-Brain Barrier Integrity in Human Patients: Towards a Routine Clinical Use in Neurological Disorders
Present Position: Co-Founder and CEO@ Promise Bio, Promise Bio
Student Country of Citizenship: Israel

2012/1 - 2019/11
Principal Supervisor

Dan Milikovsky (Completed) , Ben-Gurion University
Student Degree Start Date: 2012/1
Student Degree Received Date: 2019/11
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The role of the blood-brain barrier in neurodegeneration and epileptogenesis. To uncover mechanisms of interactions between albumin and white matter and an investigation of inflammatory processes underling epileptogenesis.
Present Position: Neurology Resident & Researcher, Tel-Aviv Medical Center
Student Country of Citizenship: Israel

2010/10 - 2014/12
Principal Supervisor

Guy Bar-Klein (Completed) , Ben-Gurion University
Specialization: CEO and Co-Founder, Obex Therapeutics
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: Executive Director of Research and Strategy, Neurocentria Inc.
Student Country of Citizenship: Israel

2010/1 - 2015/8
Principal Supervisor

Mike Fassler (Completed) , Ben-Gurion University
Student Degree Start Date: 2010/9
Student Degree Received Date: 2015/8
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The development of efficient lentiviral-mediated methods for specific gene targeting of cells from the rodent central nervous system (CNS). A novel approach in a model of epilepsy to study the role of astrocytes in the pathogenesis of the disease and challenge its use as a therapeutic tool.
Present Position: Head of Cardiology Research Laboratory, Kaplan Medical Center, Kaplan Medical Center
Student Country of Citizenship: Israel

2009/1 - 2017/1 Principal Supervisor	Karl Schoknecht (Completed) , Charité Medical University Student Degree Start Date: 2009/1 Student Degree Received Date: 2017/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-brain barrier and epileptogenesis following cerebro-vascular injury Present Position: Researcher, Carl-Ludwig-Institute for Physiology, Medical Faculty, University of Leipzig, Germany Student Country of Citizenship: Germany
2009/1 - 2014/12 Principal Supervisor	Rotem Saar-Ashkenazy (Completed) , Ben-Gurion University Student Degree Start Date: 2009/1 Student Degree Received Date: 2014/12 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Structural and functional brain alterations and their relation to emotion regulation and memory deficits in post-traumatic patients using cognitive experimental psychology behavioral tasks. Present Position: Senior Lecturer Ashkelon Academic College, Israel, Ashkelon Academic College, Israel Student Country of Citizenship: Israel
2008/10 - 2012/10 Co-Supervisor	Maya Ketzef (Completed) , Ben-Gurion University Student Degree Start Date: 2008/10 Student Degree Received Date: 2012/10 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The development of epilepsy (epileptogenesis) in a genetic model for epilepsy - the Synapsin triple knock out (TKO) mice using in-vitro intra and extra cellular recordings, RT-PCR, immunohistology, single channel surface and depth electrode EEG recordings Present Position: Researcher, Assistant Professor Karolinska Institute Stockholm, Sweden, Karolinska Institute Sweden Student Country of Citizenship: Israel
2008/9 - 2014/10 Principal Supervisor	Itai Weissberg (Completed) , Ben-Gurion University Student Degree Start Date: 2008/9 Student Degree Received Date: 2014/10 Student Canadian Residency Status: Not Applicable Thesis/Project Title: The mechanisms connecting brain insults to epilepsy and the role of albumin in EEG analysis, epileptogenesis and seizure detection (MD-PhD) Present Position: Cardiology Fellow - Soroka Medical Center, Soroka Medical Center,Israel Student Country of Citizenship: Israel
2008/1 - 2015/12 Co-Supervisor	Nitzan Levy (Completed) , Ben-Gurion University Student Degree Start Date: 2008/1 Student Degree Received Date: 2015/1 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis Present Position: Business Development Associate at Octomera, Octomera, Israel Student Country of Citizenship: Israel

2007/1 - 2015/12
Principal Supervisor

Ofer Prager (Completed) , Ben-Gurion University
Student Degree Start Date: 2007/1
Student Degree Received Date: 2015/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Neurovascular Coupling under Blood-Brain Barrier Injury: Focus on *in-vivo* imaging and quantification of dynamic changes in cerebral blood flow and blood-brain barrier (BBB) permeability under normal and pathological brain conditions, including a study of the mechanism underlying the relationship between the integrity of the BBB and neurovascular-coupling function
Project Description: blood-brain barrier and epileptogenesis
Present Position: Laboratory Manager and Research Associate, BGU Israel, Ben-Gurion University
Student Country of Citizenship: Israel

2006/1 - 2011/12
Principal Supervisor

Yaron David (Completed) , Ben-Gurion University
Student Degree Start Date: 2003/1
Student Degree Received Date: 2011/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: The mechanisms of epileptogenesis following blood-brain barrier disruption and the effects of TGF-beta on the brain. Examined the role of the blood-brain barrier in various diseases and in particular, its role in the pathogenesis in secondary epilepsies. (MD-PhD)
Present Position: CTO & Co-Founder at BioRaptor.AI, Israel, BioRaptor, Israel
Student Country of Citizenship: Israel

2003/1 - 2006/12
Principal Supervisor

Sebastian Ivens (Completed) , Charite Medical University
Student Degree Start Date: 2003/1
Student Degree Received Date: 2006/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Focal blood-brain-barrier disruption induces epileptiform activity in the rat neocortex
Present Position: Physician, Researcher at Charité Medical University, Berlin, Germany
Student Country of Citizenship: Germany

2002/1 - 2010/12
Principal Supervisor

Jonathan Cohen (Completed) , Ben-Gurion University
Specialization: Senior Lecturer at Hebrew University, Israel
Student Degree Start Date: 2002/10
Student Degree Received Date: 2010/11
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Biochemical, Neuroanatomical and Neurophysiological Characteristics of the Stress Response The role of acetylcholinesterase in adult murine dentate gyrus neurogenesis and post traumatic stress disorder: genetic, biochemical, neuroanatomical, neurophysiological and cognitive aspects.
Present Position: Director of Clinical Research at the Sharett Institute of Oncology Senior Lecturer in Hebrew Uni, Sharett Institute, Israel
Student Country of Citizenship: Israel

2002/1 - 2005/12
Principal Supervisor

Ernst Seiffert (Completed) , Charite Medical University
Student Degree Start Date: 2002/1
Student Degree Received Date: 2005/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Blood-Brain Barrier and Epileptogenesis: TGF-β receptor-mediated albumin uptake into astrocytes is involved in neocortical epileptogenesis
Present Position: MD Berlin-Brandenburg Germany
Student Country of Citizenship: Germany

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
Present Position: Regional Medical Director at Physicians Immediate Care Israel
Student Country of Citizenship: Israel

2000/1 - 2010/12
Principal Supervisor
Oren Tomkins-Netzer (Completed) , Ben-Gurion University
Specialization: Retina and Uveitis Consultant
Student Degree Start Date: 2001/1
Student Degree Received Date: 2011/12
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: TGF- receptor-mediated albumin uptake into astrocytes is involved in neocortical epileptogenesis
Present Position: Associate Professor of Ophthalmology, Faculty of Medicine, Technion, Israel, and Director of Ophthalmology, Carmel Medical Center Israel
Student Country of Citizenship: Israel

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
Present Position: Clinical Associate Professor of Dermatology at Tel Aviv University's Medical School, Tel Aviv University's Medical School, Israel
Student Country of Citizenship: 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
Present Position: Medical Doctor, Department of Dermatology, Sheba Medical Center, Ramat Gan, Israel
Student Country of Citizenship: Israel

Post-doctorate [n=10]

2023/9 - 2025/8
Principal Supervisor
Hannah Reid (In Progress) , Dalhousie University
Student Degree Start Date: 2023/9
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: CB2 and the blood-brain barrier
Present Position: Post-Doctorial Fellow, Dalhousie University

2022/2 - 2023/1
Principal Supervisor
Yonatan Serlin (Completed) , Dalhousie University
Student Degree Start Date: 2022/2
Student Degree Received Date: 2023/1
Thesis/Project Title: Canadian League Against Epilepsy Epilepsy Post-Graduate Training Fellowship Award
Present Position: Fellowship, NIH Maryland, Dalhousie University/QE11Hospital

2021/7 - 2022/6 Principal Supervisor	Mark MacLean (Completed) , Dalhousie University Student Degree Start Date: 2021/7 Student Degree Received Date: 2022/6 Thesis/Project Title: Exploring Mechanisms Underlying Mild Traumatic Brain Injury Related Microvasculopathy Present Position: MD Neurology QE11 Hospital Halifax, NS Student Country of Citizenship: Canada
2021/5 - 2024/9 Principal Supervisor	Lyna Kamintsky (In Progress) , Dalhousie University Student Degree Start Date: 2022/9 Thesis/Project Title: Biomarkers for BBB Dysfunction using MRI Analysis Present Position: Post-Doctorial Fellow, Dalhousie University
2019/8 - 2024/6 Principal Supervisor	Gerben Van Hameren (In Progress) , Dalhousie University Student Degree Start Date: 2019/8 Student Canadian Residency Status: Work Permit Thesis/Project Title: Effect of reactive oxygen species on neurovascular decoupling in epilepsy and mitochondrial functional adaptation to neuronal activation Present Position: Post-Doctoral Fellow, Dalhousie University Student Country of Citizenship: Netherlands Project Funding Sources: Cure Foundation - Taking Flight Award Amount - 125,538 (Canadian dollar) ; Mathematics of Information Technology and Complex Systems (MITACS) (Canadian dollar)
2016/1 - 2017/12 Principal Supervisor	Aaron Winter (Completed) , Dalhousie University Student Degree Start Date: 2018/9 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Vascular pathology in TBI animals Present Position: MD., Department of Ophthalmology, University of California, San Diego | UCSD · Department of Ophthalmology MD, MSc
2015/1 - 2015/8 Principal Supervisor	Guy Bar-Klein (Completed) , Ben Gurion University Specialization: CEO and Co-Founder, Obex Therapeutics Student Degree Start Date: 2014/9 Student Degree Received Date: 2015/8 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Imaging blood-brain barrier as a biomarker for epileptogenesis: a pre-clinical study. Role of TGFbeta signaling in Epileptogenesis Present Position: Executive Director of Research and Strategy, Neurocentria Inc Student Country of Citizenship: Israel Areas of Research: Convulsive Disorders/ Epilepsy
2012/10 - 2015/9 Principal Supervisor	Yoash Chassidim (Completed) , Ben-Gurion University of the Negev Student Canadian Residency Status: Not Applicable Thesis/Project Title: Blood-brain barrier imaging and development of image analysis methods for quantifying vascular permeability The image and signal analysis and algorithmic perspectives of blood brain barrier imaging, cerebral blood flow analysis methods, retinal computer aided diagnostic, dynamic contrast enhanced MRI, early detection of seizures and fetus 4th ventricle shape analysis. Present Position: Researcher and Instructor Sapir College, Israel, Sapir College, Israel Student Country of Citizenship: Israel

2008/10 - 2010/9
Principal Supervisor
Lev Pavlovsky (Completed) , Ben-Gurion University of the Negev
Student Degree Start Date: 2008/10
Student Degree Received Date: 2010/9
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Cholinergic hippocampal functional modulation under stress
Present Position: Professor Department of Dermatology Rabin Medical Center 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
Present Position: Head of the Biology Department. Academic Arab College for Education in Israel - Haifa, Arab College of Education, Haifa, Israel

Research Associate [n=6]

2022/9 - 2023/8
Principal Supervisor
Laith Alhadeed (All But Degree) , Dalhousie University
Student Degree Start Date: 2022/1
Thesis/Project Title: Exploring the therapeutic effect of corticosterone
Present Position: Graduate Student, Dalhousie University

2019/4 - 2023/5
Principal Supervisor
Rylan Smith, Dalhousie University
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Global Affairs Canada- Havana Syndrome
Present Position: Medical Student Dalhousie University

2019/4 - 2019/9
Principal Supervisor
Amanda Adams, Dalhousie University
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Environmental Enrichment in a TBI model
Present Position: Graduate Student, Mount Saint Vincent University

2018/7 - 2021/6
Principal Supervisor
Shahar Feiglin, Ben-Gurion University
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Cranial window model
Present Position: MD student, University Medical Center Israel
Student Country of Citizenship: Israel

2015/11 - 2023/3
Principal Supervisor
Daniel Zelig, Ben-Gurion University
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: MRI analysis
Present Position: MD student, University Medical Center Israel
Student Country of Citizenship: Israel

2015/2 - 2017/11
Principal Supervisor
Adiel Charbash, Ben-Gurion University
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Processing, analyzing and implementing new algorithms for brain MR images
Present Position: Biomedical Engineer, Applied Materials, Rehovot, Israel
Student Country of Citizenship: Israel

Technician [n=1]

2012/9 - 2014/10
Principal Supervisor
Liron Sheintuch, Ben Gurion University
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: MRI Analysis
Present Position: Graduate Student, Weizmann Institute
Student Country of Citizenship: Israel

Staff Supervision

Number of Scientific and Technical Staff: 16

Number of Visiting Researchers: 6

Number of Highly Qualified Personnel in Research Training: 17

Number of Employees: 7

Number of Volunteers: 9

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, Dalhousie University-Ben Gurion University-Trinity College Retreat, Workshop, Alon Friedman, 2023/9 - 2023/9
Joint lab retreat held at Trinity College in Dublin, Ireland to discuss related research and collaboration.

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 -

2022/10 - 2022/10 Organizer/Host, Organized Retreat - The Brain Injury Cluster (BRC) and The Blood-Brain Barrier Group Retreat Oak Island Resort October 21-22, 2022, Workshop, Alon Friedman

2022/5 - 2022/5 Organizer, Picchione Lecture Series, Seminar, Dalhousie University, 2022/5 - 2022/5
Organizer and speaker-Picchione Lecture Series Research and the Future of Health Care: Childhood Adversity and Consequences on the Child and Society open to the public May 2019

2020/10 - 2020/10 Organizer/Host, Organized Retreat- The Blood-Brain Barrier Groups Annual Retreat Pathogenesis of Neurological Disorders: From Blood to Brain and Back Beer-Sheva – Rehovot – Zanjan – Mfuwe - Leipzig –Halifax- Berkeley October 20-21st, 2020 Inverness Resort Cape Breton, Workshop, Alon Friedman

2020/6 - 2020/6 Organizer/Host, Presenter, Conference-The Dalhousie Medical Research Foundation Canada- Israel-Atlantic Collaboration for Brain Studies, Conference, Alon Friedman

2019/11 - 2019/11 Presenter, Cuba at 60 Conference, Conference, Dalhousie University, 2019/11 - 2019/11
Cuba at 60 Conference Dalhousie University: Speaker at 3-day symposium with forty internationally renowned Cuba scholars, policymakers and policy analysts. Open to the public November 2019

2018/9 - 2018/9	Organizer, Trans-Atlantic Blood-Brain Barrier Group, Workshop, Alon Friedman, 2018/9 - 2018/9 Presentations by collaborating labs from Berkeley, Ben Gurion and Dalhousie Universities

Editorial Activities

2014/1	Editor, 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	Editorial Board, 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

Organizational Review Activities

External Reviewer of Neuroscience grants, Canadian Institutes of Health Research

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

External Reviewer of Neuroscience Grants, Israeli Academy of Sciences
Grant Reviewer

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

External Reviewer of Neuroscience grants, National Research Council Canada

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
2022/5 - 2022/5	Presenter, "Current Challenges in Traumatic Brain Injury" Joyce Massey Traumatic Brain Injury Summit Ann Arbor, University of Michigan May 5th, 2022, Conference Panel discussion on "current challenges in TBI"
2019/11 - 2019/11	Presenter, Cuba at 60 Conference, Conference, 2019/11 - 2019/11 Havana Syndrome and low level pesticide exposure
2019/9 - 2019/9	Attendee, EPITARGET meeting, Conference, 2019/9 - 2019/9
2019/6 - 2019/6	Attendee, XV Workshop on Neurobiology of Epilepsy, Conference, 2019/6 - 2019/6 Discussion of epileptic seizure types, preclinical models and humans and highlighting possible limitations of existing approaches for seizure detection, classification and translation across species.
2019/5 - 2019/5	Attendee, Society of Biological Psychiatry, Conference, 2019/5 - 2019/5 Blood brain barrier imaging as a new biomarker in psychiatric disorders.
2019/4 - 2019/4	Attendee, London Colloquium Status Epilepticus, Conference, 2019/4 - 2019/4 The colloquium will provide an update for clinicians on cutting edge clinical practise in relation to the diagnosis and treatment of status epilepticus and acute seizures and put new developments into clinical context.

Community and Volunteer Activities

2021/6 - 2035/5 Volunteer/Research Coordinator, Mfuwe Medical Clinic-Zambia
Volunteer in a rural medical clinic in Zambia Goals of Our Project: Improve diagnosis of epilepsy and encourage correct treatment. Research to better understand the causes of high prevalence of epilepsy in the Mfuwe Region. Educate, increase awareness, and reduce stigma of epilepsy in the community. Develop new approaches to diagnose epilepsy in rural settings, including the use of telemedicine.Our team visited the Kakumbi Rural Health Clinic and focused on seeing patients to confirm their diagnosis of epilepsy and to learn about the local challenges in the diagnosis and treatment in this region. We did this by conducting a structured interview, EEG testing, providing recommendations for medications, and educating patients and their families about epilepsy. We are continuing to work with healthcare professionals so they can continue to confirm the diagnosis of epilepsy.

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 - 2030/12 Founder, Involvement in/Creation of Start-up
Target Stakeholder: Healthcare Personnel
Outcome / Deliverable: EMAGIX Inc., has commercialized patented algorithms, which will provide clinicians with a sensitive and quantitative means of evaluating the integrity of the blood-retinal barrier, as a proxy for assessing small-vessel pathology in the brain. This will enable non-invasive, inexpensive diagnosis of early brain pathology, so measures can be taken to slow down the damage.
Activity Description: Foundation of EMAGIX, a start-up company for digital image analysis for the early diagnosis of retinal and neurodegenerative disorders

International Collaboration Activities

2015/1 - 2035/12 co-Investigator, Israel
Dr. Merav Shamir, Hebrew University, continuous research collaboration with grants and journal publications.

2021/1 - 2031/12 co-Investigator, Ireland
Dr. Mathew Campbell, Trinity College, Dublin (continuous research collaboration)

2021/1 - 2031/12 co-Investigator, Italy
Dr. Annamaria Vezzani (Milan, Italy) on the role of brain pathological activity and neuroinflammation in epileptogenesis. Funded by a European grant (ERANET). continuous collaboration

2019/1 - 2031/12 co-Investigator, United States of America
Dr. Ramon Diaz-Arrastia, University of Pennsylvania (research collaboration, under NIH grant)

2019/1 - 2031/12 co-Investigator, Germany
Dr. Karl Schoknecht, Leipzig University, Germany (continuous research collaboration)

2021/1 - 2030/12	co-Investigator, Zambia Mr. Andrew Malunga – Global Health (continuous Research collaboration) on epilepsy diagnosis and awareness in Mfuwe District, Rural Zambia, joint grant
2014/7 - 2030/8	co-Investigator, Germany Continuous research collaboration with Dr. Jens Dreier (Charité, Berlin) on the role of brain pathological activity and neuroinflammation in epileptogenesis. Funded by a European grant (ERANET).
2014/1 - 2030/8	co-Investigator, United States of America Research collaboration with Dr. Daniela Kaufer (UC Berkeley) on the role of blood-brain barrier in brain pathology.
2014/7 - 2030/7	co-Investigator, United States of America Continuous research collaboration with Dr. Lee Goldstein (Boston University) on the role of blood-brain barrier dysfunction in post-traumatic complication and neurodegeneration.
2020/4 - 2030/3	co-Investigator, Jordan Dr. Refa't Abo Ghazleh, Balqa Applied University, Salt Jordan (continuous research collaboration)
2022/2 - 2026/1	co-Investigator, United States of America Longitudinal MRI Investigation of Traumatic Microvascular Injury with Dr. Jeffrey Ware, University of Pennsylvania (research collaboration under NIH grant)

Committee Memberships

2017/9	Committee Member, Dalhousie Brain Repair Executive Committee, Dalhousie University
2012/1 - 2014/7	Chair, Cognitive and Brain Sciences Teaching Program (undergraduate and graduate), Ben-Gurion University of the Negev
2011/1 - 2014/7	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

2022/1	Committee Member & Reviewer, Canadian Institute of Health Research Committee Member & Reviewer Neuroscience Panel Canadian Institute of Health Research
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 Research
2014/3 - 2016/12	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
1996/1 - 2001/12	member, European Society of Clinical Neurophysiology

Presentations

1. Mark MacLean, David Clarke. (2024). Memantine for the treatment of complicated mild traumatic brain injury: proposal for a randomized trial. 16th Canadian Traumatic Brain Injury Research Consortium Scientific Meeting Lake Louise, Alberta. February 7-8th 2024., Lake Louise, Canada
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
2. (2023). Blood-brain barrier pathology in epilepsy: from bench to bedside. 35th International Epilepsy Conference 2-6 September 2023 Dublin, Ireland New Frontiers in Blood brain barrier regulation and epilepsy, Dublin, Ireland
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
3. (2023). Neuro-glia-vascular interactions in brain disorders: From bench to bed. 15th Göttingen Meeting of the German Neuroscience Society 2023, Gottingen, Germany
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
4. (2023). Brain Mechanisms of Concussion: From Bench to Bed. Canadian Concussion Network CCN-RCC 3rd Annual Meeting June 15-16, 2023, Calgary, Canada
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
5. Mark A. MacLean , Jamil H. Muradov , Ryan Greene , Gerben Van Hameren , David B. Clarke Alon Friedman. (2023). NMDA-Receptor Antagonism for the Prevention of Neurological Dysfunction in Traumatic Brain Injury: Results of a Randomized Pre-Clinical Trial. Canadian Neurological Sciences Federation's Congress 2023, Banff, Canada
   Main Audience: Researcher, Competitive?: Yes
6. Maclean, M.A. Muradov, J. H., Pickett, G. E., Friedman, A., Weeks, A., Volders, D. (2022). Contrast-Induced Encephalopathy Following Endovascular Therapy for Cerebrovascular Disease. Clinical Neuroscience Research Day 2022, Halifax, Canada
   Main Audience: Knowledge User
   Invited?: Yes, Keynote?: No, Competitive?: No
7. Pooyan Moradi, Gerben Van Hameren, Ellen Parker, Alon Friedman. (2022). Concussion susceptibility and neurovascular dysfunction as a predictor for short- and long-term complications of repetitive mild traumatic brain injury. Dalhousie University Faculty of Medicine Research Day, Halifax, Canada
   Main Audience: Researcher
   Invited?: No, Keynote?: No
8. (2022). Exploring Mechanisms Underlying Mild and Moderate Traumatic Brain Injury-Related Microvasculopathy. Current Challenges in Traumatic Brain Injury Joyce Massey Traumatic Brain Injury Summit Ann Arbor, University of Michigan May 5th, 2022, Ann Arbor, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
9. (2022). Blood-brain barrier dysfunction and associated neuroinflammatory response in neuropsychiatric disorders: time for translation. 21st Annual Congress of the Israeli Society of NeuroImmunology, Kfar Blum, Israel
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
10. (2022). The Role of Vascular Barriers in Neurological Disorders: From Bed to Bench and Back. Clinical Neuroscience Grand Rounds Guest Speaker QEII Health Sciences Centre, Halifax, Canada
    Main Audience: Knowledge User
    Invited?: Yes, Keynote?: Yes

11. (2021). Vascular dysfunction in epilepsy: a new target for diagnosis and therapy?. Canadian Epilepsy Research Initiative CERI Virtual Symposium, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

12. (2019). Neurovascular Interactions and blood-brain barrier dysfunction in neurological disorders: From bed to bench and back. Research Day, Dalhousie University Department of Physiology and Biophysics, Halifax, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

13. (2019). The Role of Blood-Brain Barrier Pathology in Post-Traumatic Epilepsy. Canadian League Against Epilepsy, Winnipeg, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

14. (2019). Imaging blood-brain barrier permeability in health and disease—A mechanism-driven biomarker in brain disorders?. Society of Biological Psychiatry, Chicago, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

15. Griffin Mumby, E. Parker, P. Moradi O. Adegunna, D. Milikovsky, N. Hacohen, E. Hanael A. Friedman. (2019). Poster title: $\mathrm{TGF}\beta$ inhibition as a treatment for blood-brain barrier dysfunction and cortical network slowing in repetitive mild traumatic brain injury. Canadian League Against Epilepsy, Winnipeg, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

16. (2019). Neurodegenerative Eye and Brain Diseases: Where do we go from here?. Innovation Conference, Halifax, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

17. (2019). Blood-brain barrier dysfunction in neurological disorders: From bed to bench and back. Rabin Medical Center Conference, Petah Tikva, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

18. (2019). Blood-brain barrier Dysfunction in Epilepsy. American Epilepsy Society Annual Meeting, Baltimore, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No

19. (2019). Role of microvascular pathology in neural dysfunction: mechanisms and clinical implications. Tel-Aviv University Conference, Tel-Aviv, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

20. (2019). Blood-Brain Barrier Dysfunction in Status Epileptics: Mechanisms and Role in Epileptogenesis. The 7th London-Innsbruck Colloquium on Status Epilepticus, London, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

21. (2018). Blood-Brain Barrier Dysfunction in Epilepsy: A Translational Approach. Gordon Research Conference, West Dover, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

22. E.Parker, V. Senatorov,, J.Newton, K.Doelle, J.Lin, E.Hanael, L.Kamintsky, M.H.Shamir, D.Kaufer, A.Friedman. (2018). Poster Title: Blood-brain barrier dysfunction, neuroinflammation and TGF-beta signalling are associated with sensitivity to traumatic brain injury. 11th Federation of European Neuroscience Societies Berlin, Germany, Berlin, Germany
Main Audience: Researcher
Invited?: No, Keynote?: No

23. (2018). Blood-brain barrier dysfunction and epileptogenesis. 13th European Congress on Epileptology, Vienna, Austria
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

24. (2018). Blood-Brain Barrier Dysfunction in Epilepsy: A Translational Approach. Mechanisms of Epilepsy and Neuronal Synchronization. Gordon Research Conference, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

25. (2018). Post-Traumatic Epileptogenesis: Lessons from Animal Studies Towards Future Clinical Studies. Canadian League Against Epilepsy, St.John's, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

26. (2018). Blood-brain barrier dysfunction and epileptogenesis. 13th European Congress on Epileptology, Vienna, Austria
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

27. (2017). “Blood-Brain Barrier Dysfunction in Neurological Injuries: A New Diagnostic Biomarker and Target for Treatment ?”. iCSD COSBID, Berlin, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

28. (2017). “Blood-Brain Barrier Dysfunction as a Diagnostic and Therapeutic Target in Traumatic Brain Injuries”. Hyperbaric Conference, Eilat, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

29. (2017). Bridging Basic with Clinical Epileptology. “Glial Functions in Epileptology”. San Servolo Epilepsy Summer Course:, San Servolo, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

30. (2017). “Blood-Brain Barrier Dysfunction in Epileptogenesis: From Bed to Bench and Back”. Grand Round, Department of Neurology University of Pennsylvania, Pittsburgh, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

31. (2017). Imaging-Based Quantitative Assessment of Blood-Brain Barrier Opening in Patients with Subarachnoid Haemorrhage. Vasospasm Conference. The 14th International Conference on Neurovascular Events after Subarachnoid Hemorrhage., San Francisco, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

32. (2017). Blood-brain Barrier Pathology in Neurological Diseases: From Bed to Bench and Back”. University of Kentucky, College of Pharmacy., Lexington, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

33. (2017). “Network Modifications During Epileptogenesis: Mechanism-Driven Biomarkers and Therapeutics”. XIV Workshop on Neurobiology of Epilepsy ? WONOEP, Barcelona, Spain
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

34. (2016). Blood brain barrier in human epilepsy, MRI imaging. ILAE - 9th International Epilepsy Colloquium, London, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

35. (2016). The Neuromuscular Unit in Aging and Epilepsy. 4th International Epilepsy Conference, Halifax, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

36. (2016). Imaging and electrophysiological biomarkers for neuroinflammation and epileptogenesis. Inflammation Meeting, Milan, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

37. (2016). Inflammation and Epilepsy. University of California Irvine lecture series, Irvine, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

38. (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

39. (2016). Blood-brain barrier in health and disease. Zlotowsoki Center for Neuroscience, Beer-Sheva, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

40. (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 of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: Yes

41. (2016). Blood-brain barrier, Neuroinflammation and Epilepsy. 7th annual Epilepsy Symposium, Calgary, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

42. (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, Competitive?: No

43. (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

44. (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

45. (2015). Blood-brain barrier dysfunctions as biomarker and target target in epileptogenesis. Department of Neurology, Winnipeg, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

46. (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

47. (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

48. (2013). Epileptogenesis: Cells, Molecules and the Blood-Brain Barrier. 30th International Epilepsy Congress, Montreal, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

49. (2013). Cerebrovascular Biology. 10th International Meeting on Cerebrovascular Biology (CVB), Montreal, Canada
Main Audience: Researcher
Invited?: Yes

50. (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

51. (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

52. (2012). Blood-Brain Barrier Failure: Mechanisms and Implications. Versailles International Neurointensive Care Symposium, Versailles, France
Main Audience: Researcher
Invited?: Yes, Keynote?: No

53. (2012). The Blood-Brain Barrier in Neurological Diseases. 4th France-Israel Binational Conference, Aussois, Israel
Main Audience: Researcher
Invited?: Yes, Keynote?: No

54. (2011). Blood-Brain Barrier Dysfunction and Epileptogenesis. 3rd London Colloquium on Status Epilepticus, Oxford, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

55. (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

56. (2011). Blood-brain barrier, immune response and seizures. Mario Negri Institute, Milan, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

57. (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

58. (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

59. 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)

60. 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)

61. 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)

62. 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)

63. (2010). Blood-Brain Barrier Breakdown and Brain Dysfunction. 9th European Congress on Epileptology, Rhodes, Greece
Main Audience: Researcher
Invited?: Yes

64. (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

65. (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

66. (2010). Blood-Brain Barrier in Stroke and its Role in Epileptogenesis. Gordon Conference,
Main Audience: Researcher
Invited?: Yes

67. 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)

68. (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

69. 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

70. (2009). TGF beta Signaling in Epilepsy. 28th International Epilepsy Congress, Budapest, Hungary
    Main Audience: Researcher
    Invited?: Yes, Keynote?: No

71. 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

72. (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

73. 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

74. (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

75. (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

76. 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

77. Ketzef,M., Friedman,A. and Gitler,D. (2008). Age-dependent cortical plasticity in synapsin knockout epileptic mice. European Epilepsy Meeting, Berlin, Germany
    Main Audience: Researcher

78. (2008). Astrocytic-Neuronal Interactions in Epileptogenesis. European Epilepsy Meeting, Berlin, Germany
    Main Audience: Researcher
    Invited?: Yes, Keynote?: No

79. 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

80. Ketzef,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

81. (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

82. (2008). The Neurovascular Unit in Epileptogenesis. The American Epilepsy Society Meeting, Seattle, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

83. (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

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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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