

Hermona Soreq*Curriculum Vitae*

The Alexander Silberman Institute of Life Sciences
Slesinger Chair of Molecular Neuroscience
The Edmond and Lily Safra Center for Brain Science
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Short Biography

(H-Factor: ISI: H-index = 66, No. of citations without self citations: 14,727)

Google Scholar: (includes conference papers) H-index = 83, No. of citations 26,232)

Hermona Soreq was trained at The Weizmann Institute of Science and the Rockefeller University. She joined the faculty of The Hebrew University in 1986, where she holds a University Slesinger Chair in Molecular Neuroscience and is also a founding member of the Edmond and Lily Safra Center for Brain Science. Soreq's research is centered on acetylcholine functioning; she pioneered the application of molecular biology and genomics to the study of cholinergic signaling, with a recent focus on its microRNA regulation. Her work spans both basic and biomedical studies on cholinergic signaling in health and disease, particularly on anxiety-related topics and she is the elected President of the International Organization of Cholinergic Mechanisms. Soreq served as the elected Dean of the Faculty of Science (2005-2008), authored hundreds of publications, including 56 published in *Science*, *Nature*, *PNAS*, *Neuron* and other high-impact journals and has been the recipient of co-recipient of significant funding from US, European and Israeli National and private foundations including an Advanced ERC Award and an Israeli I-Core Center of Excellence on mass trauma. She is a member of The Hebrew University's Board of Governors and scientific advisory boards for national and international bodies with major interests in life sciences. Her honors include Honorary PhDs from the Universities of Stockholm (1996), Ben-Gurion University (2007), and Erlangen (2008), Teva Founders' Award (2006), The Lise Meitner Alexander von Humboldt Award, Germany (2009), a Miller Fellowship at US UC Berkeley (2009), a Berlin NeuroCure visiting fellowship (2015-2017), a Rappaport prize for bio-medical research (2015), an International Psychoneuroimmunology Award (2016) and the ILANIT-Katzir Prize for outstanding research achievements in the Life Sciences (2017). She also contributes to the Neuro-Cure Center, Berlin, the Immunosensation Center, Bonn and the International Advisory Boards of the UK-Israel Council and BGU's Center of Biotechnology. Notably, 25 of Soreq's trainees are faculty members in Israel (In Jerusalem, Tel Aviv, Haifa, the Galilee and Beer Sheva) and overseas (UC Berkeley, Maryland, Halifax, Ann Arbor, Paris, Tours, Gottingen, London). Others contribute to government and private biotechnology organizations and companies involved in Life Sciences.

MAJOR RESEARCH INTERESTS

MicroRNAs (miRs) rapidly emerge as global regulators of gene expression, yet the full scope of their roles in brain functioning is largely unknown. Soreq combines advanced sequencing technologies with computational neuroscience and transgenic engineering tools to investigate miRNA functions in the healthy and diseased brain, with a focus on acetylcholine-related processes. Her studies discovered cholinergic brain-to-body regulation of anxiety and inflammation (Soreq, Trends Neurosci., 2015) and found "CholinomiR" silencers of multiple genes that compete with each other on suppressing their targets (Nadorp and Soreq, Frontiers, 2014). Specifically, Soreq tests intervention with diseases involving impaired ACh signaling via studying CholinomiR interactions with a focus on anxiety, epilepsy, metabolism and neurodegeneration. In human volunteers, she finds cholinergic-associated pulse increases under fear of terror (Shenhar-Tsarfaty et al., PNAS 2015); and elevated liver fattening, trait anxiety, blood pressure and inflammation under inherited interference with acetylcholinesterase (AChE)-targeting CholinomiRs (Hanin et al., Gut 2018). In engineered mice, she studies CholinomiR increases under stress, epilepsy (Bekenstein et al., PNAS 2017), inflammation and ischemic stroke, whereas in Alzheimer's brains she sees massive CholinomiRs decline (Barbash et al., Neurobiol. Disease 2017), accompanying modifications in pseudogenes expression (Barbash et al., Transl.Psych 2017) and transcript processing that differs from those of Parkinson's disease (Simchovitz et al., J Neurochem. 2017).

The major recent landmarks of the Soreq group in the cholinergic field involve:

1. **MiR-132 regulation of cholinergic signaling:** In 2009, miR-132 was found to suppress AChE levels and activities, controlling neuro-immune signaling from brain to body (Shaked et al., Immunity 2009; Barbash et al., Evol & Mol Biol, 2014), with a pronounced impact on liver hyperlipidemia (Hanin et al., Gut 2018).
2. **CholinomiRs-mediated suppression of stress reactions:** In engineered mice with intra-hippocampal lentiviral injection, post-stress increases of miR-132 cause cognitive impairments through AChE suppression (Shaltiel et al., Brain Struct Funct 2013). Also, human carriers of a single nucleotide polymorphism (SNP) that modifies miR-608-binding site in AChE mRNA show elevated brain AChE, blood pressure and inflammation but not PTSD (Hanin et al., Hum Mol Gen 2014; Lin et al., Trans Psych 2016); and miR-211 was identified as attenuator of epileptic seizures (Bekenstein et al., PNAS 2017).
3. **CholinomiRs-associated changes in stroke, cardiac and inflammatory bowel disease:** Together with clinician collaborators, Soreq observed serum AChE changes that predict recovery and survival from ischemic stroke (Shenhar-Tsarfaty et al., Science eLetter 2012); drastic miR-132 increases in inflamed, but not non-inflamed intestinal biopsies (Maharshak et al., Inflamm Bowel Dis 2013), and risk of non-survival in cardiac patients with low AChE levels (Arbel et al., Mol Med 2014).
4. **Finding cholinergic-mediated RNA metabolism impairments in the Alzheimer's brain:** Soreq found the decline in Alzheimer's cholinergic neurons to be accompanied by RNA metabolism-related brain damages in human donors and cholinergic-deprived mice (Berson et al., EMBO Mol Med 2012; Kolisnyk et al., J Neurosci 2013; Kolisnyk et al., Cereb. Cortex 2016).
5. **Developing Quantum Dot labeling tools for recombinant human cholinesterases:** Nanoscience-based approach enabled linking recombinant human AChE (Diamant et al., PNAS 2006) and BChE (Podoly et al., J Biol Chem 2009) to quantum dots for following cholinesterases and detecting their properties in live cell milieu (Waiskopf et al., ACS Chem Neurosci 2012, Waiskopf et al., Nano Letters, 2016).
6. **Implicating cholinergic mechanisms to our stress-related daily life:** The impact of stress-induced processes on our daily life in 2018 Israel is notably increasing the risk of disease; in a collaborative Big-Data study with clinical experts, Soreq and colleagues established this aspect by combining machine learning with patient serum tests (Shenhar-Tsarfaty et al., PNAS 2015). Yet more recently, they linked anxiety and metabolism regulating miRs (Meydan et al., Trends Mol Med 2016). **Soreq thus brought the translational biomedicine aspects of the cholinergic system, with the miR focus to scientific discussion at both the basic research and biomedical aspects.**

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HERMONA SOREQ

I. PERSONAL INFORMATION:

FAMILY Spouse (Tuvi) and 3 sons

II. EDUCATION:

1979	Rockefeller University	Fogarty Fellow	Molecular Cell Biology
1976	The Weizmann Institute of Science	PhD	Biochemistry
1970	Tel Aviv University	MSc	Biochemistry, Chemistry teaching
1967	The Hebrew University of Jerusalem	BSc	Biochemistry & Microbiology

III. ACADEMIC POSITIONS:

2010- The Edmond and Lily Safra Center for Brain Sciences (ELSC), founding member
 2005 - 2008 Elected Dean, Faculty of Mathematics and Natural Sciences, The Hebrew University
 2005 - 2017 Non-Resident Research Professor, The Bio-Design Institute, Arizona State University
 2000 -2005 Head, The Eric Roland Center for Neurodegenerative Diseases, The Hebrew University
 1995 - 1999 Head, the Alexander Silberman Institute of Life Sciences, The Hebrew University
 1992 -1995 Head, Dept. of Biological Chemistry, The Hebrew University
 1989 - On Professor of Molecular Neuroscience, Department of Biological Chemistry, The Hebrew University of Jerusalem
 1986 - 1988 Associate Professor of Molecular Neuroscience, Department of Biological Chemistry, The Hebrew University of Jerusalem.
 1983 – 1986 Associate Professor, Neurobiology Department, Weizmann Institute
 1979 - 1983 Senior Scientist, Neurobiology Department, Weizmann Institute
 1977 – 1979 Fogarty Fellow, Department of Molecular Cell Biology, The Rockefeller University.

IV. OTHER CAMPUS APPOINTMENTS

BOARDS OF DIRECTORS

2011-2018 The Hebrew University of Jerusalem
 2008-2019 Yissum, The Hebrew University's Technology Transfer Company
 HEBREW UNIVERSITY COMMITTEES (Past 5 years)
 2014-2018 Executive Committee, Committee for Academic Policy
 2011-2014 Israel Institute for Advanced Studies (IAS)
 2010-2017 Chair, Appointment Committee for Tenure Positions in the Experimental Sciences
 2008-2018 The Academic Committee of The Center for Rationality and Interactive Decision Theory, The Faculty of Social Sciences

V. AWARDS AND HONORS

2017 ILANIT-Katzir Prize for 2017 for exceptional achievements in the Life Sciences
 2016 PsychoNeuroInflammation Society (PNIRS) award
 2014

- Fellow, NeuroCure Charité - Universitätsmedizin Berlin Cluster
- FEBS National Lecturer, Zadar, Croatia
- The Rappaport Prize for Bio-Medical Research, Israel

 2013-2019

- Advanced ERC Research Awards
- Israeli National Center of Excellence (I-Core) on Trauma, member of leadership team

 2010 Guest scholar (July-Sept.), Humboldt University's Brain and Mind Institute, Berlin
 2009

- The Lise Meitner Alexander von Humboldt Foundation Award, Germany
- Guest Researcher, (June-Sept.) Max Planck Institute for Microbiology, Berlin
- Miller Fellowship, University of California, Berkeley

 1999, 2008 Kay Prize for Innovative research, The Hebrew University
 2007

- Doctor of Philosophy *honoris causa* in Medicine, Friedrich-Alexander-University Erlangen-Nürnberg
- Doctor of Philosophy *honoris causa* in Neuroscience, Beer-Sheva University of the Negev

 2006 Teva's Founders Award in Molecular Medicine
 2005 Landau Prize for Biomedical Research
 2001 Honorary Professorship, The Maimonides University, Buenos Aires
 2000 Research Prize by the Israeli Minister of Health
 1996 Doctor of Philosophy *honoris causa* in Chemistry, University of Stockholm, Sweden
 1995 Visiting Professor, College de France, Paris
 1992 U.S. Army Science Award of excellence, Miami
 1990- The Charlotte Slesinger Chair on Molecular Neuroscience, The Hebrew University of Jerusalem
 1986 - 1989 Berman Fellowship, The Hebrew University
 1985 Chancellor's Distinguished Lectureship, The University of California, Berkeley
 1982 Honorary Medal, The European Society for Neurochemistry, Katania
 1980 - 1983 Charles Revson Career Development Chair, The Weizmann Institute

VI. INTERNATIONAL PLENARY LECTURES (Past 3 years)

2019

International Society for Autonomic Neuroscience (ISAN) (July) USA

Carving the molecular landscape of cholinergic signalling in anxiety and metabolic stresses

12th Symposium on Catecholamines and Other Neurotransmitters in Stress (June) Slovakia**Spring Hippocampal Research Conference (June) Sicily***Dynamic changes in murine hippocampal miR-211 expression associate with cholinergic imbalances and epileptiform activity***14th International Conference on Alzheimer's and Parkinson's Diseases Portugal (March)***NEAT1 protects nuclear paraspeckles in Substantia nigra neurons of Parkinson's patient brains via simvastatin-inducible LRRK2-mediated signaling***85th Annual Meeting of the German Society for Experimental and Clinical Pharmacology and Toxicology (DGPT) and 21st Annual Meeting of the Association of the Clinical Pharmacology (VKIpha) with contribution of the AGAH Germany (February)***Non-coding RNAs in neurodegenerative disease***2018****Wellcome Trust India Alliance – EMBO symposium on “Memory Formation: RNA based regulatory mechanisms” New Delhi, India (October)***Non-coding RNAs and Traumatic memories***31st ECNP Congress, Barcelona, Spain (October)***Single nucleotide polymorphisms co-modulating anxiety and metabolic disorders***NIDDK ANS meeting - Autonomic Nervous System: Role in the Regulation of Peripheral Metabolism and Pathophysiology of Metabolic Disease, Bethesda, USA (September)***MicroRNAs in Cholinergic Signaling, Fatty Liver Disease, and Metabolic Risk***Ageing BIRAX conference at Kings College, London, England (September)***Aging-related changes in acetylcholine signaling implicate non-coding RNA regulators***UK-ISR Conference on Precision Ageing and Medicine at King's College London (September)***Short non-coding whole blood RNAs from ischemic stroke patients reflect a circadian-dependent context***Seminar in Cambridge, England (June)***The complexity and evolutionary advantages of cholinergic regulating microRNAs***ELSC Conference – What Makes Us Human: From Genes to Cognition, The Hebrew University, Jerusalem Israel (June)***Carving the cholinergic landscape in the human brain***Neurizons 2018 fire . wire . inspire, Gottingen, Germany (May-June)***The impact of non-coding RNAs on cholinergic reactions to trauma***'The Neurobiology of PTSD – a challenge to be met' Wilton Park, England (April-May)****The joint CIFAR-Jacobs-Foundation-Conference “Reconciling Genes and Contexts” 2018 at Schloss Marbach, Germany (April)****One-day symposium: ‘Neuroinflammation meets cholinergic inflammatory pathway’, University of Heidelberg, Germany (April)***Role of microRNAs in the regulation of cholinergic processes***EMBO Workshop - Noncoding RNAs in embryonic development and cell differentiation, Weizmann Institute, Rehovot, Israel (April)***The promises and challenges of neuronal microRNAs***AAT-AD/PD Focus Meeting 2018, Torino, Italy (March)***Identifying disease-related Circular RNAs (circRNAs) in the Parkinson's disease brain***EMBO Workshop "Noncoding RNAs in Embryonic Development and Cell Differentiation" Israel (April)***The promises and challenges of neuronal microRNAs***European Crohn's and Colitis Organisation (ECCO) Austria (February)***Stress-induced controllers of intestinal inflammatory reactions***2017****14th Advanced School - International Society for Neurochemistry „The Energetic Brain“France (August)***microRNA contributions to the links between anxiety and metabolic disorders***University of Virginia lecture, USA (August)****University of Pennsylvania lecture, USA (July)****Non-coding RNAs in Nervous System Development, Plasticity and Disease, Marburg, Germany (June)***Short and Long Non-coding RNA Controllers of Cholinergic Signaling Contribute to Anxiety-related and Metabolic Disorders**The impact of trauma, from brain to body***NeuroCure Cluster of Excellence Charite Hospital Berlin, (March)***Micromanagement of stress and metabolic reactions***12th Göttingen Meeting of the German Neuroscience Society (March)***Long non-coding pseudogene transcripts compete with mRNAs that share microRNA recognition elements with them in human brain neurons***13th International Conference on Alzheimer's and Parkinson's Diseases and Related Neurological Disorders, Vienna (March)***Inter-related RNA and Lipid processing changes in cognitively declined Alzheimer's brains***2016****Dalhousie University Medical Neuroscience Forum & Grand-Round Physicians, Halifax (January)***Medical Neuroscience-From mice to men: cholinergic regulators of stress signalling**MicroRNA checks and balances in human mental health and disease***Boston University Medical School (March)***RNA metabolism impairments in Alzheimer's disease: from exon inclusion to mis-regulated non-coding RNA***The International Organization for the Study of Inflammatory Bowel Diseases (IOIBD) Annual General Meeting, Truelove Lecture: Tel-Aviv (April)***microRNA-relevance to intestinal inflammation***Frontiers in PsychoNeuroimmunology Conference, Brighton (UK) (June)***MicroRNA-mediated cholinergic control of inflammation and anxiety in mice and men***FENS International Conference, Copenhagen (July)***Neuronal-expressed MicroRNA-targeted Pseudogenes Compete with Coding Genes in the Human Brain***OMICS 4th International Conference on Integrative Biology, Berlin, Germany (July)***Non-coding RNAs - an integrative biology hope for anxiety-related syndromes*

XVth International Symposium on Cholinergic Mechanisms Keynote Lecturer, Marseille (Sept)*The Cholinergic tradeoff of stress micromanagement: CholinomiR suppressors of anxiety-related inflammation in metabolic disorder***First International Caparica Conference in Splicing 2016 Lisbon, Portugal***Capturing alternative splicing patterns in the human degenerating brain***29th Congress of Applied and Translational Neuroscience (ECNP) Congress Vienna, Austria, (Sept)***Long non-coding Pseudogene transcripts Compete with mRNAs that share microRNA recognition elements with them in Human Brain neurons***World Congress of Psychiatric Genomics, Jerusalem (October)***MicroRNA-reacting Pseudogenes Control Cholinergic Signaling in Brain Neurons***VII. SERVICE**

INTERNATIONAL SOCIETIES AND COMMITTEES (Past 5 years) –

2018	<ul style="list-style-type: none"> •Member, CIFAR's International Assessment Panel (IAP) (Canada) •Member, the International Advisory Committee of the 12th Symposium on Catecholamines and Other Neurotransmitters in Stress (to be held Slovakia)
2017-2019	<ul style="list-style-type: none"> •European Research Council (ERC) Panel Member, the Consolidator Grant 2018 - Neuroscience Panel •World Congress of Psychiatric Genetics, Program Committee World Congress (2019) •Member, Academic Board of MIGAL (Galilee Research Institute)
2017	Member, Academia Europaea
2015-2019	International Society for Neurochemistry (ISN) Council Member
2014	<ul style="list-style-type: none"> •FEBS International Scientific Committee for the 2016-2017 FEBS Conferences •European Research Council (ERC) Panel Member in Neurosciences and Neural Disorders for the Consolidator Grant 2014 •Chair, US-Israel Binational Science Foundation's Transformative Science Program •German Research Foundation (DFG) Grant Review Panel member in Emerging roles of non-coding RNAs
2014-2018	Austrian K-Project Panel member, Competence Centers of Excellence Grant (COMET)
2013-2014	Israel Science Foundation (ISF) Committee
2013	<ul style="list-style-type: none"> •Chair, International Advisory Board for the International Symposia on Cholinergic Mechanisms •Elected International member of German Research Foundation; Immunosensation Center of Excellence, Bonn
2011-2014	Israel Science Foundation (ISF) Review Committees for the Regular and the Legacy Heritage Biomedical Science Grants (Chair)
2011-2015	Federation European Biochemical Societies (FEBS) Fellowship Committee

Member, European Molecular Biology Organization (EMBO), Human Genome Organization (HUGO), Federations of American and Israeli Societies for Experimental Biology (FASEB, FISEB), American Societies for Neuroscience & for Pharmaceutical & Experimental Therapeutics, Society of Controlled Release, Oligonucleotide Therapeutics Society (OTS), Society of Neuroscience.

NATIONAL COMMITTEES (Past 5 years)

2016-	Israel Science Foundation Committee for Institutional Equipment in Life Sciences, Chairperson
2018-	Azrieli Faculty Newly Recruited Faculty Awards, Chairperson of the life sciences awards committee
2016	Israel Science Foundation Professional Course Committee
2015-	Azrieli College of Engineering, Board of Trustees
2015--	Adam's Fellowship Committee
2015	Tel Aviv University Life Sciences Review
2014	The Late President Peres' Committee for PhD Fellowships of Excellence in Neuroscience
2010-2011	National Council for Higher Learning, Steering Committee for Centers of Excellence
2010-2014	Life Sciences Committee of the Clore Scholars Programme, Chairperson
2009-2014	Technion's Academic Development Committee

VIII. STUDENTS AND POSTDOCTORAL ASSOCIATES TRAINED**STUDENTS AND POST-DOCTORAL FELLOWS****A. M.Sc. Students**

1. **Daniel Eliyahu**, 1980-1982.
2. **Ruti Parvari**, 1980-1983 (Co-supervisor: I. Silman). Feinberg Graduate School Award, 1982. *Assoc. Prof. of Genetics, Ben-Gurion University*.
3. **Anat Safran**, 1981-1983. Feinberg Graduate School Award, 1983.
4. **Margit Burmeister**, 1982-1984 (Co-supervisor: J. Schlesinger). Minerva Fellowship. *Professor of Genetics, Ann Arbor, MI*
5. **Adi Avni**, 1983-1984. Feinberg Graduate School Special Award, 1984. *Professor of Biology, Tel Aviv University*
6. **Ronit Zamir**, 1986-1988.
7. **Nilli Galyam**, 1997-1999. Pollack Award, 1998. Wolf Award, 1999. Faculty member, *Tel Hai College*.
8. **Nadav Livny**, 1998-1999.
9. **Nelly Gluzman**, 1997-2000.
10. **Danijel Albajari**, 1997 – 2000. Boehringer-Ingelheim Fellowship, 1998-2000.
11. **Alastaire Grant**, (BSc University College, London), 1999-2001. UK Friends of HUJ fellowship, 1999-2001. *Ph.D. student, University College, London*.
12. **Boris Bryk**, (The Hebrew University), Haselkorn Fellowship, 2002 – 2003; Dean's Award, 2002-2003. *Biotechnology Co., Germany*.
13. **Ran Avni**, (The Hebrew University), 2005-2007. *Biotechnology Company*.
14. **Tal Bruck**, (The Hebrew University), 2006-2008. PhD student at Nissim Benvenisty's lab, HUJ
15. **Yochai Wolf** (The Hebrew University), 2008-2010. PhD student at Stephen Jung's lab, the Weizmann Institute.

16. **Yael Goll**, (The Hebrew University), 2010-. PhD student Eli Geffen's lab, Tel Aviv University.
 17. **Lyndon Friedson** (Israel Institute of Technology) Cholinergic transcript alterations in Alzheimer's disease, 2014-.
 18. **Rotem Haviv** (The Hebrew University) 2015-2017.
 19. **Eden Oz** (The Hebrew University) 2015-2017.
 20. **Rotem Maoz** (The Hebrew University), 2016-2017 Systems approach to Alzheimer's disease.
 21. **Naomi Niederhoffer, (Canadian new immigrant, The Hebrew University), 2017-**
- B. Ph.D. Students (Faculty members highlighted in color)**
1. **Averell Gnat**, 1985-1990. Landau Award, 1990. Assoc. Prof. in Pharmacology, University of Maryland.
 2. **Revital Ben-Aziz Aloya**, 1989 - 1993. Landau Award, 1991. Biotechnology Company.
 3. **Gal Ehrlich**, 1989-1993. Golda Meir Award, 1989, Pollack Award, 1990. Owner of a Patents in Biotechnology Company.
 4. **Shlomo Seidman**, 1990-1994. Magna Cum Laude. Landau Award, 1995, deceased.
 5. **Yael Loewenstein-Lichtenstein**, 1990 - 1996. Pollack Award, 1991, Landau Award, 1994, Human Frontiers Post-doctoral Fellowship, 1996-1998.
 6. **Rachel Beeri-Leibson**, 1991-1997. European Neurobiology Network Award, 1995, Lady Davis Post-doctoral Fellowship, 1997. Head, the Genomics lab, Shaarei Zedek Medical Center.
 7. **Efrat Lev-Lehman**, 1992-1997. Golda Meir Award, 1990. B. de Rothschild Post-doctoral Fellowship, 1997-1999.
 8. **Mirta Grifman**, 1993-1998. ISN Travel Fellowship, 1995. Mexican HUJ Friends Fellowship, 1996. Pharmaceutics Consultant, Pfizer.
 9. **Meira Sternfeld**, 1992-1999. Pollack Award, 1993. Lady Davis Post-doctoral Fellowship, 1999. Lecturer, Oranim College.
 10. **Daniela Kaufer**, 1994 –1999. Pollack Award, 1996. ISN Travel Fellowship, 1997. EMBO Post-doctoral Fellowship, 1999 (declined). Human Frontiers Post-doctoral Fellowship, 1999. LSRF Fellowship, 2002. Prof., U.C. Berkeley.
 11. **Michael Shapira**, 1994 – 2000. Pollack Award, 1995. Maria-Ascoli Award, 1999. Deans' Post-doctoral Fellowship, 2001. LSRF Fellowship, 2004. Associate Professor, UC, Berkeley.
 12. **Osnat Cohen**, DVM (HUJ) 1997 -2004. ASPET Fellowship and Best Paper Award, 2000. Head, HUJ-society interactions.
 13. **Noa Farchi**, 1998-2004. Dean's Award, 1999, 2000, Pollack Award, 1999 (Co-supervisor: B. Hochner, Neurobiology).
 14. **Inbal Mor**, M.Sc. (HUJ), Dean's Award, 2000. Pollack Award, 2001, 1998-2006. Post-Doctoral Fellow, Weizmann, Rehovot and Glazgo, UK. Lab manager, The Technion.
 15. **Tama Evron**, B.Sc. (HUJ) 1999 – 2006. Post-Doctoral Fellow, Duke University Durham, N.C. Biotechnology Company, Boston; Praxis Precision Medicine (Clarus) and Teleos.
 16. **Ella H. Sklan**, M.Sc. (Ben Gurion University), 1999 – 2004. Lichtenstein Award, 2002 Assoc. Professor, Dept of Human Microbiology, Tel Aviv University.
 17. **Eran Meshorer**, M.Sc. (HUJ), 1999-2003. ISN Travel Award, 2001, 2003; Lichtenstein Award, 2001.; ICNC Fellowship, 2002, Rector's Award, 2002-2003; ISBMB Prize, 2003. Professor of Genetics, HUJ.
 18. **Marjorie Pick**, M.Sc. (University of Melbourne), (Co-supervisor: A. Eldor, TAU), 2000-2005. Research Associate, Dept. of Oncology, Hadassah Hospital.
 19. **Irit Shapira**, B.Sc. (in psychology, HUJ), (Co-supervisor: R. Yirmiya, Psychology), 2000-2005. Staff Scientist, Beilinson Medical Center.
 20. **Erez Podoly**, M.Sc. (HUJ Co-Supervisor: Oded Livnah), 2003- 2008. Eshkol Fellowship, 2007. Post-Doctoral Fellow, Stanford University. Entrepreneur.
 21. **Liat BenMoyal-Segal**, Haselkorn Fellowship, 2001-2002, Eshkol Fellowship, 2005, Adam's Fellowship, 2006-2010. 2014 Appointment Department of Oral & Maxillofacial Surgery, Beilinson Medical Center.
 22. **Deborah Toiber**, (The Hebrew University), 2002 – 2008. Post-Doctoral Fellow, Harvard University. Lecturer, Department of Life Sciences, Ben-Gurion University.
 23. **Adi Geffen-Gilboa**, 2002-2011. Eshkol Fellowship, 2007, 2011, FEBS. Post-doctoral Fellow, Univ. of Bonn; Harvard University. Owner of a Biotechnology Company, Boston.
 24. **Ari Meerson**, MSc (Weizmann Institute), 2004-2008. Post-Doctoral Fellow, NIH, Phoenix Arizona. Researcher at MIGAL, lecturer in Tel Hai College.
 25. **Gabi Zimmerman**, 2004-2010. Computational Neuroscience Fellowship. Tel HaShomer Ventures.
 26. **Keren Ailon-Ofek**, 2004-2013. Biotechnology Fellowship, 2004. Meidan Fellowship, 2010-2012. Medical equipment company.
 27. **Shani Ben-Arie**, 2004-2010. Dean's Fellowship, 2004; Wolf Fellowship, 2005; Meidan Fellowship, 2007. Bioinformatics Company. 2017- Post-doctoral fellow, Weizmann Institute.
 28. **Amit Berson**, 2004-2011. Dean's Fellowship, 2004; Eshkol Fellowship, 2007, Cornelli Travel Award for the 9th International Conference on ADPD, 2009. Post-doctoral fellow, University of Pennsylvania
 29. **Mor Hanan**, 2007- (HUJ, Co-supervisor: Sebastian Kadener) The Eric Roland Interdisciplinary Program in Neurodegenerative Diseases Scholarship, 2010. Teva Neuroscience pre-doctoral fellowship, 2016.
 30. **Shahar Barbash**, **2009-2015** (HUJ, Computational Neuroscience (ICNC)). Teva Pre-doctoral fellowship, 2013-2014, Rothschild Post-doctoral fellowship, 2015-2018, Rockefeller University, NY, USA.
 31. **Nir Waiskopf**, **2012-** (The Hebrew University) (Co-supervisor: Uri Banin, Chemistry). **2009-2016.** Einstein Pre-doctoral fellowship, 2013-
 32. **Geula Hanin**, (The Hebrew University) **2009-2017** MicroRNA-312 as a metabolic amplifier. Kay prize, 2015. Newton Post-doctoral fellowship, Cambridge UK.
 33. **Uriya Bekenstein**, **2008-2017** (The Hebrew University), MicroRNA-211-mediated epilepsy and cholinergic dis-regulation in Alzheimer's disease. Patents in Biotechnology company.
 34. **Nadav Yayon** (The Hebrew University), **2012-**. Synaptic complexity of cholinergic functioning.
 35. **Bettina Nadorp** (Ulm University), **2014-2018** CholinomiR regulators of cholinergic signaling.
 36. **Rivka Zangen**, (The Hebrew University) **2016-** miRNA regulators of pain in mice and men.
 37. **Yonat Tzur** (The Hebrew University) **2015-2017-** The primate-specific miR-608 hyper-activates cholinergic brain reactions in humanized female mice while maintaining balanced inflammation
 38. **Shani Vaknin (the Hebrew University) 2018-**
 39. **Nimrod Madrer (The Hebrew University) 2018-**

C. M.D. Ph.D. Students

1. **Patrick Dreyfus**, M.D. (The University of Paris), 1986-1989. [INSERM exchange visitor](#). INSERM Fellow, Paris
2. **Yaron Lifson-Lapidot**, M.D. (Ben-Gurion University), 1989-1991. [Levi Eshkol Fellowship](#). Biotechnology Company.
3. **Daniel Grisaru**, M.D. (Tel Aviv University), 1996-2001. (Co-supervisor: A. Eldor, TAU). [Meirbaum award, 1998](#). *Assoc. Prof., Tel-Aviv University*.
4. **Chava Perry**, M.D. (HUJ), 2000-2005 (Co-supervisor: A. Eldor, TAU) [Meirbaum Award, 2000](#). [Long-term Ministry of Health Fellowship, 2001-2002](#). [Bat-Sheva de Rothschild Fellowship, 2005-2007](#). *Senior Lecturer, Tel-Aviv University*.
5. **Rinat Kahat**, M.D. (Technion), (Co-supervisor with Ido Perlman, Rapaport Institute), 2001-2007. *Post-Doctoral Fellow, St. Louis, US*.
6. **Asher Salmon**, M.D., (Technion, Haifa), 2001 – 2007. *Vice-President Hadassah Hospital, Ein Kerem*
7. **Alon Simchovitz** (The Hebrew University), 2016- non-coding RNAs in mental impairments. *Clore PhD fellowship, 2017-2019*.

D. M.D. Basic Research Fellows

1. **Nissim Razon**, M.D., (Tel Aviv University) 1982. [Bornstein Award, 1982](#). *Prof., Tel Aviv University*.
2. **Avi Matzkel**, M.D., (Tel Aviv University), 1983.
3. **Gustavo Malinger**, M.D., (Tel Aviv University), 1986. [Israel Fertility Association Award, 1986](#), *Prof., Tel-Aviv University*.
4. **Eduardo Schejter**, M.D., (Tel Aviv University), 1987.
5. **Ari Ayalon**, M.D., (Tel Aviv University), 1988.
6. **Adrian Katz**, M.D., (Tel Aviv University), 1989.
7. **Tatiana Wender**, M.D., (Ben Gurion University), 2001.
8. **Naama Orpaz**, M.D., (Hebrew University-Hadassah Medical School), 2010
9. **Yael Lewis**, M.D., (Hebrew University-Hadassah Medical School), 2010

E. Post-Doctoral Fellows

1. **Sherena Cedar**, Ph.D. (in Immunology, London University) 1983 - 1984. [EMBO Post-Doctoral Fellowship](#). *Senior Lecturer South Bank University, London*.
2. **Catherine Prody**, Ph.D. (in Biochemistry, University of California, Berkeley) 1984-1988. [MDA Fellow](#).
3. **Judy Lieman-Hurwitz**, Ph.D. (in Virology, Weizmann Institute) 1987-1989. [Levi Eshkol Fellowship](#). *Lab manager, Hebrew University*.
4. **Lewis Neville**, Ph.D. (in Neurobiology, University of Southampton) 1989-1991. [Golda Meir Fellowship](#). *Biotechnology Co.*
5. **Rachel Karpel**, Ph.D., (in Ecology, Hebrew University), 1991-1994. [ICRF Fellowship](#). *Head, Ministry of Health's Unit for New Medications. President, Israel PDA Chapter*.
6. **Mikael Schwarz**, Ph.D. (in Botany, Hebrew University), 1992-1994. [Levy Eshkol Fellowship](#). *Biotechnology Company*.
7. **Ellen Chaikin**, Ph.D. (in Developmental Biochemistry, Hebrew University), 1993. [Golda Meir Fellowship](#). *Blood Bank*.
8. **Christian Andres**, M.D., Ph.D (in Neurochemistry, University of Strasbourg), 1993-1995. [INSERM & NCRD-Israel Ministry of Science Exchange Fellowships](#). *Professor of Genetics, University of Tours, France*.
9. **Alon Friedman**, M.D., Ph.D. (in Neurobiology, Ben Gurion University), 1996-1998. [Smith Psychobiology Post-doctoral Fellowship](#). [Foulkes Prize, 1997](#). [Teva Prize, 1997](#). *Professor of Neuroscience, Ben-Gurion University and Dalhousie University, Canada*.
10. **Ron Broide**, Ph.D. (in Neurobiology, University of CA., Irvine), 1995-1997. [Valazzi - Pikovsky Fellowship](#). *Biotechnology company*.
11. **Christina Erb**, Ph.D. (in Pharmacology, University of Mainz), 1999-2000. [Long-Term Minerva Fellowship](#). *Drug Company*.
12. **Klara Birikh**, Ph.D. (in Molecular Biology, Moscow University), 1999 – 2000. [Long-Term EMBO Fellowship 1999 – 2000](#), [ENN Travel Fellowship, 2002](#). *2008- Senior Project Manager, MetGen Finland*.
13. **Cesar Flores Flores**, Ph.D. (in Biochemistry, Univ. of Murcia, Spain) 1999 – 2000. [Golda Meir Fellowship \(declined\)](#); [Long-term FEBS Fellowship](#). *Researcher, The University of Murcia, Spain*.
14. **Amir Dori**, MD, PhD (in Physiology, BGU), 2002-2003. [Smith Psychobiology Post-doctoral Fellowship](#). [Segol Fellowship](#), [Talpiot Fellowship](#), [SHEBA Medical Center](#), [Neurologist, Sheba Medical Center](#).
15. **Cinthya Assuncao Guimaraes**, Ph.D. (in Neurogenetics, University Rio de Janeiro, Brazil) [EMBO New World Fellowship, 2002](#). [Lady Davis Fellowship, 2003-2004](#). *Staff Scientist CPQ- National Institute of Cancer (INCA), Rio de Janeiro*.
16. **Yoram Ben-Shaul**, PhD. (in Computational Neuroscience, HUJ) 2003-2005. [Interdisciplinary Center for Neural Computation Post Doctoral Fellowship 2004-2006](#). *Post-Doctoral Fellow, Duke Univ., St. Louis; Harvard, Boston*. *Senior Lecturer in Medical Neurobiology, The Hebrew University*.
17. **Iftach Shaked**, PhD (in Neuro-immunology, WIS), 2005 – [Psychobiology Fellowship, 2005-2007](#), [Lady Davis Fellowship, 2008](#); *Post-Doctoral Fellow, Scrips Institute, La-Jolla*. *Neurophysics Lab, Physics Department, UCS*.
18. **Galit Shaltiel**, PhD (in Neuroscience, Ben-Gurion University). 2007 [Lady Davis Fellowship](#); [Levi Eshkol Fellowship](#). 2013 *Head of R&D, Amorphical Ltd., Ben Gurion University*, *Senior lecturer in Physiological Psychology, Department of Psychology at Achva Academic College, Israel*
19. **Song-Hua Lee** PhD (in Biochemistry) National University of Malaysia. 2013 [EMBO short term Postdoctoral Fellowship](#). *Paris Biotechnology startup*.
20. **Nibha Mishra**, PhD (in Pharmacology) Birla Institute of Technology, Mesra, **2014-2016** [The Edmond and Lily Safra Center for Brain Science Postdoctoral Fellowship](#). 2014 [The PBC Postdoctoral Fellowship for Outstanding students](#). *Harvard 2nd Post-doc*.
21. **Shani Shenhar-Tsarfaty**, PhD (Tel Aviv University), 2011-2015. [ELSC post-doctoral fellowship](#), [Eshkol Post doctoral fellowship](#). *Tel Aviv University, Senior lecturer*.
22. **Katarzyna Winek**, MD PhD (The Charité – Universitätsmedizin Berlin) **2018**- [ELSC post-doctoral fellowship](#)
23. **Mohammed Amir Husain**, PhD (Aligarh Muslim University, Aligarh, India) **2018**- [PBC post-doctoral fellowship](#)

F. MAJOR EXTRAMURAL COLLABORATIONS

1. **David A. Bennett**, Director, Alzheimer's Disease Center, Rush University Medical Center, Chicago
2. **Shlomo Berliner**, Chairman, Department of Internal Medicine, Sourasky Medical Center, Tel Aviv.
3. **Andreas Meisel**, Department of Neurology, Charité-University of Medicine, Berlin
4. **Michaela Kress**, University of Innsbruck, FP7 project on nociceptive ncRNAs, 2013-2018.
5. **Gunther Hartmann**, University of Bonn, Germany, 2011; [ImmunoSensation DFG center of excellence](#), 2012-2017.

6. **Reinhard Luehrmann**, MPI Gottingen, Eurasnet, 2007-2011; GIF Grant, 2011-2015.
7. **The late Uwe Heinemann**, Department of Pathology, Charité-University of Medicine, Berlin.
8. **Charles J. Arntzen**, Director, Arizona Biodesign Institute, Arizona State University, Member, US President's Advisory Council on Science. DARPA grant 2001-2005
9. **Alon Friedman**, Department of Physiology, Ben-Gurion University, Beer Sheva. US Army Medical Research and Development Grant, 1999-2004. DFG grant 2010-2016.
10. **James Patrick**, Vice President and Dean of Research, Baylor Medical School, Houston, Texas. BSF Grants, 1989-1992, 1993-1996, 1997-1999, 2000-2002.
11. **Fritz Eckstein**, Max Planck Institut for Experimental Medicine, Gottingen, W. Germany. Ministry of Science grant, 1991 - 1994; GIF grant, 1994-1997; (Joels Visiting Professor November 1997 - February 1998, Hebrew University of Jerusalem; honorary PhD, Hebrew University, 2007).
12. **Gene Robinson**, Dept. of Entomology, University of Illinois, Urbana, IL, U.S.A.. Molecular Genetics approach to Honey Bee Acetylcholinesterase. Fullbright Fellow, 1996. Smith Psychobiology Fund, 1996.
13. **Israel Hanin**, Chairman, Department of Pharmacology & Experimental Therapeutics, Loyola University, Chicago. Lady Davis Fellow, 1993. Smith Psychobiology Fund, 1993.
14. **Haim Zakut**, The Sackler Faculty of Medicine, Tel Aviv University. ISF grant, 1994-1996; Ministry of Health grant, 1995-1996.
15. The late **Amiram Eldor**, Chairman, Department of Hematology, Sourasky Medical Center, Tel Aviv.

IX. COURSES TAUGHT (Past 5 years)

HEBREW UNIVERSITY:

- 2015- Advanced techniques in molecular neuroscience (post-graduate course, English)
- 2014 The Road to Successful Publications (post-graduate course, English)
- 2010- The Degenerating Brain: From Research to Hope, Cornerstone course for B.A. Humanities and Social Science students. (English)
- 2009- The Biological Basis for Neurodegenerative Diseases (The Interdisciplinary Center for Neural Computation. (post-graduate course, English)
- 2004- Molecular Neuroscience lectures to Computational Neuroscience PhD students

INTERNATIONAL:

- 2017 Lecturer, ISN Advanced School, Varennes Jarcy, France
- 2013 Teacher, RNA and the Etiology of Brain Disease, Cortona, Italy
Teacher, Shanghai Summer Class Shanghai Jiao Tong University, China

X. LIST OF PUBLICATIONS

TOTAL PUBLICATIONS TRACK-RECORD

>300 publications, cited 26,232 times in international peer-reviewed journals including 3 in Nature, 4 in Nature Medicine, one each in Science, Nature Genetics, Brain, Trends in Neuroscience, Nature Reviews Neuroscience, Immunity, Evolution and Molecular Biology, Current biology, Neuron, 2 in Blood, 3 in Mol Psych, 27 in Proceedings of the National Academy of Sciences, 4 in J. Neuroscience, 2 in EMBO Molecular Medicine and 3 in EMBO J. Google Scholar H-index is 83.

BOOKS AND MONOGRAPHS

- 2012 Tsim, K. and Soreq, H. Eds.
Special Topic: Acetylcholinesterase: Old Questions and New Developments
Frontiers in Molecular Neuroscience
- 2009 Soreq, H., Kaufer, D. and Friedman, A. Eds.
STRESS: from molecules to behaviour. A comprehensive analysis of the neurobiology of stress responses'
Wiley, Mannheim, Germany
- Sklan, E.H. and Soreq, H.
Cholinergic Stress and Anxiety Signals involve Alternative Splicing
VDM Publishing House Ltd., Saarbrücken 125p.
- 2004 Meshorer, E. and Soreq, H.
Stressed Out Towards the Molecular Biology of Stress Responses.
The United Kibbutz Publishers, Jerusalem (Hebrew).
- 2004 Silman, I. Soreq, H. Fischer, A. Anglister, L. and Michaelson, D., Eds.
Cholinergic Mechanisms.
Martin Dunitz, London
- 1996 Seidman S. and Soreq, H.
Transgenic *Xenopus*: Microinjection Methods and Developmental Neurobiology
Humana Press, Totowa, NJ: Neuromethods vol. 28. A. Boulton and G.B. Baker, Series Eds. 225p.
- 1993 Soreq, H. and Zakut, H.
Human Cholinesterases and anticholinesterases.
Academic Press, San Diego 300 p.
- 1990 Soreq, H. and Zakut, H.
Cholinesterase genes: Multileveled regulation
Monographs in Human Genetics, Vol. 13
Karger, Basel (R.S. Sparkes, ed.) 120 p.

PEER REVIEWED RESEARCH PAPERS

- Soreq H (2019) Fear, Fat, and Genes: New Answers to Old Questions. *Front. Young Minds* 6:76. doi: 10.3389/frym.2018.00076.
- Kalozoumi, G., Kel-Margoulis, O., Vafiadaki, E., Greenberg, D.S., Bernard, H., Soreq, H., Depaulis, A. & Sanoudou, D. (2018) Glial responses during epileptogenesis highlights promising new therapeutic targets. **PLOS ONE**: 16;13(8):e0201742. doi: 10.1371/journal.pone.0201742. eCollection 2018.
- Shaheen, M., Schindler, L., Saar-Ashkenazy, R., Odeh, K.B., Soreq, H., Friedman, A. & Kirschbaum, C. (2018) Victims of War – Psychoendocrine Evidence for the Impact of Traumatic Stress on Psychological Well-Being of Adolescents Growing Up during the Israeli-Palestinian Conflict. **Psychophysiology** e13271. <https://doi.org/10.1111/psyp.13271>.
- Meydan, C., Bekenstein, B. & Soreq, H. (2018) Molecular Regulatory Pathways Link Sepsis With Metabolic Syndrome: Non-coding RNA Elements Underlying the Sepsis/Metabolic Cross-Talk. **Front. Mol. Neurosci.** 11:189. doi: 10.3389/fnmol.2018.00189.
- Yayon, N., Dudai, A., Vrieler, N., Amsalem, O., London, L. & Soreq, H. (2018) Intensify3D: Normalizing signal intensity in large heterogenic image stacks. **Scientific Reports** 8:4311. doi:10.1038/s41598-018-22489-1.
- Deshaies, J.E., Shkreta, L., Moszczynski, A.J., Sidibe', H., Semmler, S., Fouillen, A., Bennett, E.R., Bekenstein, U., Destroismaisons, L., Toutant, J., Delmotte, Q., Volkening, K., Stabile, S., Aulas, A., Khalfallah, Y., Soreq, H., Nanci, A., Strong, M.J., Chabot, B. & Vande Velde, C. (2018) TDP-43 regulates the alternative splicing of hnRNP A1 to yield an aggregation-prone variant in amyotrophic lateral sclerosis. **Brain**: 141; 1320–1333
- Haviv, R., Oz, E. & Soreq, H. (2018) The Stress-Responding miR-132-3p Shows Evolutionarily Conserved Pathway Interactions. **Cell Mol Neurobiol** 38: 141-153. <https://doi.org/10.1007/s10571-017-0515-z>
- Tafazzoli, A., Forstner, A. J., Broadley, D., Hofmann, Silke Redler, A., Petukhova, L., Giehl, K.A., Kruse, R., Blaumeiser, B., Böhm, M., Bertolini, M., Bartels, N.G., Lutz, G., Wolff, H., Blume-Peytavi, U., Soreq, H., Christiano, A.M., Botchkareva, N.V., Nöthen, M.M., Betz, R.C. (2017) Genome-wide microRNA analysis implicates *miR-30b/d* in the etiology of alopecia areata. **Journal of investigative dermatology**, 138(3) 549-556.
- Barbash, S., Garfinkel, B. Maoz, R., Simchovitz, A., Nadorp, B., Guffanti, A., Greenberg, D.S., Bennett E.R., Seitz, A., Nadeau, C., Türk, A., Paul, L., Reda, T., Buchman, A.S., Bennett, D.A. and Soreq, H. (2017) Alzheimer's brains show inter-related changes in RNA and lipid metabolism. **Neurobiology of disease**, Jun 17;106:1-13. doi: 10.1016/j.nbd.2017.06.008. [Epub ahead of print].
- Barbash, S., Simchovitz, A., Buchman, A.S., Bennett, D.A., Shifman, S. and Soreq, H. (2017) Neuronal-expressed MicroRNA-targeted Pseudogenes Compete with Coding Genes in the Human Brain. **Translational psychiatry**, 7(8):e1199. doi: 10.1038/tp.2017.163.

11. Bekenstein, U.*, Mishra, N.*, Millikovskiy, D., Hanin, G., Zelig, D., Sheintuch, L., Berson, A., Greenberg, D.S., Friedman, A. and Soreq, H. (2017) Dynamic changes in murine forebrain miR-211 expression associate with cholinergic imbalances and epileptiform activity. **Proceedings of the National Academy of Sciences**, 114(25):E4996-E5005.
12. Hanin, G., Yayon, N., Tzur, Y., Haviv, R., Bennett, E.R., Krishnamoorthy, Y.R., Kotsiliti, E., Zangen, R., Tam, Y., Udi, S., Efron, B., Shteyer, E., Pappo, O., Pikarsky, E., Heikenwalder, M., Greenberg, D.S., and Soreq H. (2018) miRNA-132 induces hepatic steatosis and hyperlipidemia by synergistic multi-target suppression. **Gut**, 67:1124–1134. doi:10.1136/gutjnl-2016-312869.
13. Simchovitz, A., Heneka, M. and Soreq, H. (2017) Personalized genetics of the cholinergic blockade of neuro-inflammation. **Journal of neurochemistry**, 142 Suppl 2:178-187.
14. Pienica, C. and Soreq, H. (2016) MicroRNA regulators of cholinergic signaling link neuromuscular cardiac and metabolic systems. **Periodicum Biologorum**, Vol 118, No 4, 77-83.
15. Mishra, N., Friedson, L., Hanin, G., Bekenstein, U., Geula Hanin, Volovich, M., Bennett, E.R., Greenberg, D.S. and Soreq, H. (2017) Antisense miR-132 blockade via the AChE-R splice variant avoids cortical inflammation. **Scientific reports**, 7, 42755 13 pp.
16. Lasser-Katz, E., Simchovitz, A., Chiu, W.-H., Oertel, W.H.K, Sharon, R., Soreq, H., Roeper J. and Goldberg J.A. (2016) Mutant α -Synuclein overexpression induces stressless pacemaking in vagal motoneurons at risk in Parkinson's disease. **Journal of neuroscience**, 37,47-57 DOI: <http://dx.doi.org/10.1523/JNEUROSCI.1079-16.2016>
17. Dotan, I., Levy-Nissenbaum, E., Chowers, Y., Fich A., Israeli, E., Adar, T., Shteingart, S., Soreq, H. and Goldin, E. (2016) Ameliorating active ulcerative colitis via an orally available toll-like receptor-9 modulator (BL-7040): A prospective open-label, multi-center phase II trial. **Digestive Diseases and Sciences**, 61, 3246-3254
18. Garfinkel, B.P., Arad, S.; Neuner, S., Netser, S., Wagner, S., Kaczorowski, C.C., Rosen, C.J., Gal, M., Soreq, H. and Orly, J. (2016) HP1BP3 expression determines maternal behavior and offspring survival. **Genes Brain and Behavior**, 15, 678-688.
19. Pinho, R., Guedes, L.C., Soreq, L, Lobo, P.P., Mestre, T. Coelho, M. Rosa, M.M., Gonçalves, N., Wales, P., Mendes, T., Gerhardt, E., Fahlbusch, C., Bonifati, V., Bonin, M., Miltenberger-Miltényi, G., Borovecki, F., Soreq, H., Ferreira, J.J. and F. Outeiro, T. (2016) Gene expression differences in peripheral blood of Parkinson's disease patients with distinct progression profiles. **PLoS ONE** 11, 1 9pp. e0157852. doi:10.1371/journal.pone.0157852
20. Waiskopf, N., Ben Shahar, Y., Galchenko, M., Carmel, I., Moshitsky, G., Soreq, H.* and Banin, U.* (2016) Photocatalytic reactive oxygen species formation by semiconductor-metal hybrid nanoparticles: towards light-induced modulation of biological processes. **Nano letters**, 16, 4266-4273.
21. Kolisnyk, B., Al-Onaizi, M., Soreq, L., Barbash, S., Bekenstein, U., Haberman, N., Hanin, G., Kish, M. T., da Silva, J. S., Fahnstock, M., Ule, J., Soreq, H., Vania F. Prado, V. F., Prado, M. A. M. (2016) Cholinergic surveillance over hippocampal RNA metabolism and Alzheimer's-like pathology. **Cerebral cortex**, 27, 3553–3567.
22. Shenhar-Tsarfaty, S., Shapira, I., Toker, S., Rogowski, O., Berliner, S., Ritov, Y. and Soreq, H. (2016) Weakened Cholinergic Blockade of Inflammation Associates with Diabetes-Related Depression. **Molecular medicine**, 22, 156-161.
23. Kolisnyk, B., Al-Onaizi, M. A., Xu, J., Parfitt, G., Ostapchenko, V., Hanin, G., Soreq, H. Prado, M. A. M. and Prado V. F. Cholinergic Regulation of hnRNPA2/B1 Translation by M1 Muscarinic Receptors. **Journal of neuroscience**, 36, 6287-6296.
24. Lin, T.*, Simchovitz, A.*, Shenhar-Tsarfaty, S.*, Admon R., Vaisvaser S., Kessler, E., Hanin G, Hanan, M., Shomron, N., Fernandez, G., Fruchter E., Hendler T. and Soreq H. (2016) Intensified vmPFC surveillance over PTSS under perturbed microRNA-608/AChE interaction. **Translational psychiatry**, 6:e801, 8pp.
25. Lykhmus, O., Mishra, N., Koval, L.M., Kalashnyk, O.M., Gergalova, G.L., Uspenska, K.R., Komisarenko, S.V., Soreq, H., and Skok, M.V. (2016) Molecular Mechanisms Regulating LPS-Induced Inflammation in the Brain. **Frontiers in molecular neuroscience** <http://dx.doi.org/10.3389/fnmol.2016.00019>.
26. Cooper, G., Lasser-Katz, E., Simchovitz, A., Sharon, R., Soreq, H., Surmeier, J. D. and Goldberg, J. A. (2015) Functional segregation of voltage-activated calcium channels in motoneurons of the dorsal motor nucleus of the vagus. **Journal of neurophysiology**, 114,1513-1520.
27. Atsmon, J., Brill-Almon, E., Nadri-Shay, C., Chertkoff, R., Shaikevich, D., Volokhov, I., Haim, K. Y., Bartfeld, D., Shulman, A., Ruderfer, I., Ben-Moshe, T., Shilovitzky, O., Soreq, H. and Shaaltiel, Y. (2015). Preclinical and first-in-human evaluation of PRX-105, a PEGylated, plant-derived, recombinant human acetylcholinesterase-R. **Toxicology and applied pharmacology**, 287, 202-209.
28. Nadorp, B. and Soreq H. (2015) Gut feeling: MicroRNA discriminators of the intestinal TLR9-cholinergic links. **International immunopharmacology**, 29, 8-14. doi: 10.1016/j.intimp.2015.04.058.
29. Blohberger, J., Kunz, L., Einwang, D., Berg, U., Berg, D., Ojeda, S. R., Dissen, G., Fröhlich, T., Arnold, G., Soreq, H., Lara, H. and Mayerhofer, A. (2015) Readthrough acetylcholinesterase (AChE-R) and regulated necrosis: Pharmacological targets for the regulation of ovarian functions? **Cell death and disease**, 6, e1685 10 pp. doi: 10.1038/cddis.2015.51.
30. Shenhar-Tsarfaty, S., Yayon, N., Waiskopf, N., Shapira, I., Toker, S., Zaltser, D., Berliner S., Ritov, Y. and Soreq, H. (2015) Fear and C-reactive protein cosynergize annual pulse increases in healthy adults **Proceedings of the National Academy of Sciences of the United States of America**, 112, E467–E471. pii: 201418264. Highlighted in (1) Wood, J. (Dec.28, 2014) Fear of Terrorism Can Up Heart Rate, Risk of Death. **PsychCentral** <http://psychcentral.com/news/2014/12/28/fear-of-terrorism-increases-risk-of-death/79157.html>. (2) Tsalik, E. L. (Jan. 14, 2015) Fear as a Cardiovascular Risk Factor. 7, 270, pp. 270ec9 14 Jan 2015 **Science Translational Medicine Editors' Choice Cardiology**. <http://stm.sciencemag.org/content/7/270/270ec9>. (3) von Käne, R. Fear of terror and inflammation ignite heart health decline. **Proceedings of the National Academy of Science U S A. Commentary**. 112, 1248–1249. (4) **Research gate**. (Nov. 18, 2015). Fear of terrorism increases the risk of natural death. <https://www.researchgate.net/blog/post/fear-of-terrorism-increases-risk-of-natural-death>. (5) Blakemore, E. (December 4, 2015) Could fear of terrorism be deadlier than terrorism itself? A neuroscientist weighs in. In *Speaking of Science*. **The Washington Post**. <https://www.washingtonpost.com/news/speaking-of-science/wp/2015/12/04/could-fear-of-terrorism-be-deadlier-than-terrorism-itself-a-neuroscientist-weighs-in/>. (6) Dahl, M. (December 16, 2015) The Fear of Terrorism Is Dangerous on a Biological Level. *Science of us*. **New York Magazine** <http://nymag.com/scienceofus/2015/12/fear-of-terror-can-lead-to-biological-harm.html>.

31. Soreq, L., Salomonis, N., Guffanti, A., Bergman, H., Israel, Z. and Soreq, H. (2015) Whole transcriptome RNA sequencing data from blood leukocytes derived from Parkinson's disease patients prior to and following deep brain stimulation treatment **Genomics data**, 3, 57-60.
32. Hanin, G., Shenhar-Tsarfaty, S., Yayon, N., Hoe, Y.Y., Bennett, E.R., Sklan, E., Rao, D.C., Rankinen, T., Bouchard, C., Geifman-Shochat, S., Shifman, S., Greenberg, D.S. and Soreq, H. (2014) "Competing Targets of microRNA-608 Modulate the Risks of Anxiety and Hypertension". **Human molecular genetics**, 23, 4569-4580.
33. Shenhar-Tsarfaty, S., Berliner, S., Bornshtein, N. and Soreq, H. Cholinesterases as biomarkers for parasympathetic dysfunction and inflammation-related disease. **Journal of molecular neuroscience** (Cholinergic issue), 53, 298-305.
34. Waiskopf, N., Ofek, K., Gilboa-Geffen, A., Bekenstein, U., Bahat, A., Bennett, E. R., Podoly, E., Livnah, O., Hartmann, G. and Soreq, H. (2013) AChE and RACK1 promote the anti-inflammatory properties of Fluoxetine. **Journal of molecular neuroscience** (Cholinergic Issue), 53, 306-315.
35. Barbash, S., Shifman, S. and Soreq, H. (2014) Global co-evolution of human microRNAs and their target genes. **Molecular biology and evolution**, 31, 1237-1247 /molbev/msu090.
36. Nadorp, B. and Soreq, H. (2014) Predicted overlapping microRNA regulators of acetylcholine packaging and degradation in neuroinflammation-related disorders. **Frontiers molecular neuroscience**, 7:9. doi: 10.3389/fnmol.2014.00009.
37. Guffanti, A., Simchovitz, A., Soreq, H. (2014) Emerging bioinformatics approaches for analysis of NGS-derived coding and non-coding RNAs in neurodegenerative diseases. **Frontiers in Cellular Neuroscience**, 8:89, 9pp. doi: 10.3389/fncel.2014.00089.
38. Arbel, Y., Shenhar-Tsarfaty, S., Waiskopf, N., Finkelstein, A., Halkin, A., Revivo, M., Berliner, S., Herz, I., Shapira, I., Keren, G. Soreq, H. and Banai, S. (2014) Decline in Serum Cholinesterase Activities Predicts 2 Year Major Adverse Cardiac Events. **Molecular Medicine**, 20, 38-45. doi: 10.2119/molmed.2013.00139.
39. Soreq, L., Guffanti, A., Salomonis, N., Simchovitz, A., Israel, Z., Bergman, H. and Soreq, H. (2014). Long Non-Coding RNA and Alternative Splicing modulations in Parkinson's Leukocytes Identified by RNA Sequencing. **Plos computational biology**, 10(3):e1003517. doi: 10.1371/journal.pcbi.1003517.
40. Goll, Y., Beckenstein, U., Barbash, S., Greenberg, D., Zangen, R., Shoham, S. and Soreq, H. (2014). Sustained Alzheimer's pathology in MyD88-deficient APP^{swe}/PS1 mice. **Neurodegenerative diseases** 13, 58-60.
41. Kolisnyk, B., Al-Onaizi, M. A., Hirata, P. H. F., Guzman, M. S., Nikolava, S., Barbash, S., Soreq, H. Bartha, R., Prado, M. A. M. and Prado V. F. (2013) Forebrain Deletion of the Vesicular Acetylcholine Transporter Results in Deficits in Executive Function and Metabolic Abnormalities in the Prefrontal Cortex. **Journal of Neuroscience** 33, 14908-14920.
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43. Soreq, L., Bergman, H., Israel, Z. and Soreq, H. (2013) Deep Brain Stimulation Modulates Nonsense-Mediated RNA Decay in Parkinson's Leukocytes. **BMC Genomics** 14, 478. DOI: 10.1186/1471-2164-14-478.
44. Barbash, S., Hanin, G. and Soreq, H. (2013) Stereotactic injection of microRNA-expressing lentiviruses to the mouse hippocampus CA1 region and assessment of the behavioral outcome. **Journal of visualized experiments** 76, e50170, doi:10.3791/50170.
45. Maharshak, N., Shenhar-Tsarfaty, S., Aroyo, N., Orpaz, N., Guberman, I., Canaani, J., Halpern, Z., Dotan, I., Berliner, S. and Hermona Soreq, H. (2013) MicroRNA-132 Modulates Cholinergic Signaling and Inflammation in Human Inflammatory Bowel Disease. **Journal of Inflammatory Bowel Disease** 19, 1346-1353.
46. Bekenstein, U. and Soreq, H. (2013) Heterogeneous nuclear ribonucleoprotein A1 in health and neurodegenerative disease: From structural insights to post-transcriptional regulatory roles. **Molecular and cellular neurosciences** 56, 436-446.
47. Shenhar-Tsarfaty, S., Waiskopf, N., Ofek, K. Shopin, L., Usher, S., Berliner, S., Shapira, I., Bornstein N.M., Ritov, Y., Soreq, H. and Ben-Assayag, E. (2013) Atherosclerosis and arteriosclerosis parameters in stroke patients associate with Paraoxonase polymorphism and esterase activities. **European journal of neurology** 20, 891-898.
48. Soreq, L., Salomonis, N., Bronstein, M., Greenberg, D.S., Israel, Z. Bergman, H. and Soreq, H. (2013) Small RNA sequencing-microarray analyses in Parkinson leukocytes reveal deep brain stimulation induced splicing changes that classify brain region transcriptomes. **Frontiers in molecular neuroscience** 6, article 10, 20 pp.
49. Waiskopf, N., Rotem, R., Shweky, I., Yedidya, L., Soreq, H. and Banin, U. (2013) Labeling acetyl- and butyrylcholinesterase using semiconductor nanoparticles for biological applications. **Bionanoscience** 3, 1-11.
50. Ofek, K. and Soreq, H. (2013) Cholinergic involvement and manipulation approaches in multiple system disorders. **Chemico-biological interactions** 203, 113-119.
51. Barbash, S and Soreq, H. (2013) Statistically invalid classification of high throughput gene expression data. **Scientific reports** 3, 1102 (DOI:10.1038/srep01102 (2013)).
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