

EVGENIA SALTA

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Laboratory of Neurogenesis & Neurodegeneration
Netherlands Institute for Neuroscience
Meibergdreef 47, 1105 BA Amsterdam, Netherlands

CURRENT POSITION

Laboratory of Neurogenesis & Neurodegeneration, NIN Amsterdam, Netherlands
Group leader 2020-Present

EDUCATION

Aristotle University of Thessaloniki, School of Health Sciences Thessaloniki, Greece
Department of Pharmaceutical Sciences
PhD, *magna cum laude*, Molecular Pharmacology 2005-2009
Aristotle University of Thessaloniki, School of Health Sciences Thessaloniki, Greece
Department of Pharmaceutical Sciences
BS, Pharmacy 1999-2005

RESEARCH EXPERIENCE

VIB-KU Leuven Center for Brain & Disease Research Leuven, Belgium
Laboratory for the Research of Neurodegenerative Diseases
Staff scientist 2016-2020
VIB-KU Leuven Center for Brain & Disease Research Leuven, Belgium
Laboratory for the Research of Neurodegenerative Diseases
Postdoctoral Fellow; Advisor: Bart De Strooper 2010-2015
Marine Biological Laboratory: Zebrafish Development and Genetics MA, USA, 2011
EMBO: Practical Course in Methods for miRNA Discovery and Analysis Galway, Ireland, 2011
Aristotle University of Thessaloniki, School of Health Sciences Thessaloniki, Greece
Department of Pharmaceutical Sciences, Prion Diseases Group
Graduate Researcher; Advisor: Theodoros Sklaviadis 2005-2010
Institute of Virology, Technical University of Munich Munich, Germany
Exchange Student; Advisor: Hermann Schätzl 2006
Aristotle University of Thessaloniki, School of Health Sciences Thessaloniki, Greece
Department of Pharmaceutical Sciences, Prion Diseases Research Group 2002-2005
Undergraduate Student; Advisor: Theodoros Sklaviadis

GRANTS AND AWARDS

Public-Private Partnership Allowance, Health Holland / J&J [EUR 330K] 2020
Major Grant, Alzheimer Nederland [300K] 2020
Major Grant, Alzheimer Nederland [Co-PI; 300K] 2020
Research Grant, Research Foundation – Flanders [EUR 40K] 2018
Standard Project Grant, Alzheimer's Research Foundation [EUR 150K] 2018
Research Fellowship, Research Foundation – Flanders [EUR 200K] 2019-2021
Science Communication Academic Award, 2017
Royal Belgian Academy for Sciences and Arts
Research Fellowship, Alzheimer's Association [USD 150K] 2016-2019
Brain-Specific, Modular and Active RNA Therapeutics Grant [EUR 200K] 2016-2020
Research Project Grant, Research Foundation – Flanders [EUR 300K] 2017-2020
Postdoctoral Fellowship, Research Foundation – Flanders [EUR 200K] 2016-2018
Travel Grant, Research Foundation – Flanders 2014
PhD Fellowship, Greek National Scholarship Foundation [EUR 20K] 2006-2008
Innovative Ideas on Applied Research Award [EUR 10K] 2008
Central Macedonia Department for Innovation

CONFERENCE PRESENTATIONS

Invited Oral Presentations

Adult Neurogenesis (Abcam)	Virtual, 2021
EuroNeurotrophin Conference (Plenary talk)	Virtual, 2021
Lowlands Molecular Neuroscience meeting	Turnhout, Belgium, 2019
F-Prime Biomedical Research Initiative (FBRI)	Kronberg, Germany
Workshop on Alzheimer's Disease and Related Disorders	2017
International Society for Developmental Neuroscience (ISDN)	Antibes, France
21st Biennial Meeting	2016
Immunoprion	Brussels, Belgium
Exploring Foreseen Impact on Risk Assessment and regulation of discoveries in TSEs Workshop	2009

Abstract-selected Oral Presentations

Eurogenesis	Bordeaux, France
4 th Conference	2019
Adult Neurogenesis	Dresden, Germany
2018 Conference	2018
AD/PD	Vienna, Austria
13 th International Conference	2017
Alzheimer's Association International Conference (AAIC)	London, UK
Annual Conference	2017

Posters

Keystone Symposia	Stockholm, Sweden
Adult Neurogenesis	2014
Keystone Symposia	Santa Fe, NM, USA
Joint Meeting: Neurogenesis/New Frontiers in Neurodegenerative	2012
Keystone Symposia	Banff, AB, Canada
MicroRNAs and Human Disease	2011
Zebrafish Genetics and Development	Edinburgh, Scotland
7 th European Meeting	2011
Neuroprion	Chalkidiki, Greece
Prion 2009	2009
Neuroprion	Madrid, Spain
Prion 2008	2008
Neuroprion	Edinburgh, Scotland
Prion 2007	2007

SUPERVISION

2 postdocs, 4 PhD students, 8 Master students, 3 Bachelor students	2014-present
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TEACHING

1st & 2nd year Master Degree, KUL: Advanced Biology of Cell/Neuron	2018-2020
2nd year Master Degree, KUL: Research Track in Neurodegeneration	2019-2020

Ad hoc REVIEWER

Science, Cell, Dev Cell, Neuron, Nature Reviews Neurology, Nature Communications, Alzheimer's and Dementia, Acta Neuropathologica, EMBO Journal, EMBO Mol Med, Cell Reports, eLife, Biol Psychiatry, J. Alzheimer's Disease, PLoS One, J. Neurochemistry, Cell Signaling, Non-coding RNA

INVITED GRANT PROPOSAL REVIEWER

Premio Crioestaminal 2017

EU Joint Programme – Neurodegenerative Diseases Research 2020

French National Research Agency – Generic Call 2021

SCIENCE COMMUNICATION

Webinar: ‘How to keep your brain young?’ (with D. Swaab & E. Scherder)	2021
Short movie: ‘Alzheimer’s research using human brain’	2021
https://www.linkedin.com/posts/deborah-alfarez-42b3a56_alzheimersdisease-alzheimer-hersendonor-ugcPost-6790602624077963264-jQxW	
Science Day , KU Leuven, Neuroscience Workshop	2018
Science Communication PhD Workshop , VIB Seminar, Veldhoven, Netherlands	2017
Science Day , KU Leuven, Children’s Neuroscience Workshop	2017
Children’s University , KU Leuven, Children’s Neuroscience Workshop	2016
Science Day , KU Leuven, Children’s Neuroscience Workshop	2016
Science Day , KU Leuven, Children’s Neuroscience Workshop	2015
Biotechnology Day , VIB, Children’s Neuroscience Workshop	2015
Science Day , KU Leuven, Children’s Neuroscience Workshop	2014
Children’s University , KU Leuven, Children’s Neuroscience Workshop	2014
Wetenschap op Stap , VIB, Children’s Neuroscience Workshop	2014
Children’s University , KU Leuven, Children’s Neuroscience Workshop	2013
Biotechnology Day , VIB, Children’s Neuroscience Workshop	2012
Founding member, Inclusion & Diversity Committee , KU Leuven/VIB	2018-2020

PUBLICATIONS

- Penning A, Tosoni G,, Fitzsimons C*, **Salta E***. Adult Neural Stem Cell Fate Determination by Small Non-Coding RNAs: Implications for Physiological Aging and Aging-related Neuropathologies. ***co-corresponding authors. In submission**
- Walgrave H, Zhou L, De Strooper B, **Salta E***. The potential of microRNA-based therapies in Alzheimer’s disease. ***corresponding author. In revision**
- Walgrave H, Balusu S,, De Strooper B*, **Salta E***. Restoring miR-132 expression rescues adult hippocampal neurogenesis and memory deficits in Alzheimer’s disease. *Cell Stem Cell*. 2021 ***co-corresponding authors**.
- Chen W, [...], **Salta E**, [...], De Strooper B. Spatial Transcriptomics and In Situ Sequencing to Study Alzheimer’s Disease. *Cell*. 2020
- Sierksma A, Lu A, Mancuso R, Fattorelli N, Thrupp N, **Salta E**, et al. Novel Alzheimer risk genes determine the microglia response to amyloid- β but not to TAU pathology. *EMBO Mol Med*. 2020
- Lucassen P, Fitzsimons C, **Salta E**, Maletic-Savatic M. Adult Neurogenesis, Human After All (Again): Classic, Optimized, and Future Approaches. *Behav Brain Res*. 2020
- Samaridou E, Walgrave H, **Salta E**, et al. Nose-to-brain Delivery of Enveloped RNA - Cell Permeating Peptide Nanocomplexes for the Treatment of Neurodegenerative Diseases. *Biomaterials*. 2020
- Sachse SM, Lievens S, Ribeiro LF, Dascenco D, Masschaele D, Horr  K, Misbaer A, Vanderroost N, De Smet AS, **Salta E**, et al. Nuclear import of the DSCAM-cytoplasmic domain drives signaling capable of inhibiting synapse formation. *EMBO J*. 2019
- Sierksma A, Lu A, **Salta E**, et al. Deregulation of neuronal miRNAs induced by amyloid- β or TAU pathology. *Mol Neurology*. 2018
- **Salta E***, De Strooper B*. Noncoding RNAs in neurodegeneration. *Nat Rev Neurosci*. 2017. ***co-corresponding authors**
- **Salta E***, De Strooper B*. microRNA-132: a key noncoding RNA operating in the cellular phase of Alzheimer’s disease. *FASEB J*. 2017. ***co-corresponding authors**
- **Salta E**, et al. miR-132 loss de-represses ITPKB and aggravates amyloid and TAU pathology in Alzheimer’s brain. *EMBO Mol Med*. 2016
- **Salta E, et al.** Assessing Proteinase K Resistance of Fish Prion Proteins in a Scrapie-Infected Mouse Neuroblastoma Cell Line. *Viruses*. 2014
- **Salta E**, et al. A self-organizing miR-132/Ctbp2 circuit regulates bimodal notch signals and glial progenitor fate choice during spinal cord maturation. *Dev Cell*. 2014
- Sala Frigerio, Lau P, **Salta E**, et al. Reduced Expression of hsa-miR-27a-3p in CSF of patients with Alzheimer disease. *Neurology*. 2013

- Lau P, Bossers K, Janky R, **Salta E**, et al. Alteration of the microRNA network during the progression of Alzheimer's disease. EMBO Mol Med. 2013
- Koukouli F, Paspaltsis I, **Salta E**, et al. Inhibition of PrP(Sc) formation in scrapie infected N2a cells by 5,7,8-trimethyl-3,4-dihydro-2H-1,4-benzoxazine derivatives. Prion. 2012
- **Salta E**, De Strooper B. NcRNAs with essential roles in neurodegenerative disorders. Lancet Neurol. 2012
- Málaga-Trillo E*, **Salta E***, et al. Fish models in prion biology: underwater issues. Biochim Biophys Acta. 2011. **equally contributing authors*
- **Salta E**, et al. Evaluation of possible transmission of BSE and scrapie to gilthead sea bream. PLoS One. 2009