

Cover Page



Universiteit Leiden



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Author: Zalachoras, Ioannis

Title: Targeting the brain under stress : selective glucocorticoid receptor modulation

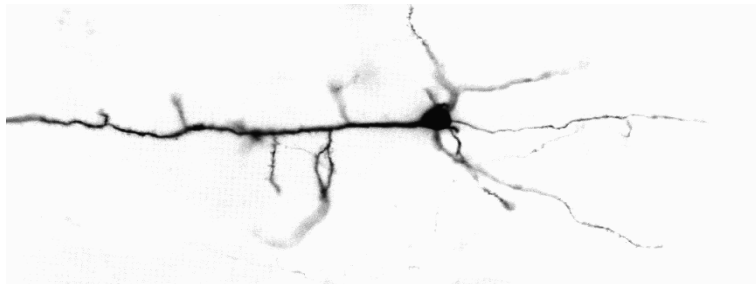
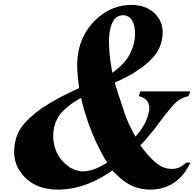
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Addendum

Publication List

Curriculum Vitae

Travel Grants - Awards



Publication List

Evers MM, Tran HD, **Zalachoras I**, Meijer OC, den Dunnen JT, van Ommen GJ, Aartsma-Rus A, van Roon-Mom WM. “Preventing formation of toxic N-terminal huntingtin fragments through antisense oligonucleotide-mediated protein modification.”

Nucleic Acid Therapeutics 2014, doi:10.1089/nat.2013.0452

Zalachoras I, Houtman R, Atucha E, Devos R, Tijssen AMI, Hu P, Lockey PM, Datson NA, Belanoff JK, Lucassen PJ, Joëls M, de Kloet ER, Roozendaal B, Hunt H, Meijer OC. “Differential targeting of brain stress circuits with a selective glucocorticoid receptor modulator.”

Proceedings of National Academy of Science 2013 May 7;110(19):7910-5. doi: 10.1073/pnas.1219411110

Zalachoras I, Houtman R, Meijer OC. “Understanding stress-effects in the brain via transcriptional signal transduction pathways.”

Neuroscience 2013 Jul 9;242:97-109. doi: 10.1016/j.neuroscience.2013.03.038

Evers MM, Tran HD, **Zalachoras I**, Pepers BA, Meijer OC, den Dunnen JT, van Ommen GJ, Aartsma-Rus A, van Roon-Mom WM. “Ataxin-3 protein modification as a treatment strategy for spinocerebellar ataxia type 3: Removal of the CAG containing exon.”

Neurobiology of Disease 2013 May 6;58C:49-56. doi: 10.1016/j.nbd.2013.04.019

Zalachoras I, Grootaers G, van Weert LT, Aubert Y, de Kreij SR, Datson NA, van Roon-Mom WM, Aartsma-Rus A, Meijer OC. “Antisense-mediated isoform switching of steroid receptor coactivator-1 in the central nucleus of the amygdala of the mouse brain.”

BMC Neuroscience 2013; 14:5

Fitzsimons CP, van Hooijdonk LW, Schouten M, **Zalachoras I**, Brinks V, Zheng T, Schouten TG, Saaltink DJ, Dijkmans T, Steindler DA, Verhaagen J, Verbeek FJ, Lucassen PJ, de Kloet ER, Meijer OC, Karst H, Joels M, Oitzl MS, Vreugdenhil E. “Knockdown of the glucocorticoid receptor alters functional integration of newborn neurons in the adult hippocampus and impairs fear-motivated behavior.”

Molecular Psychiatry 2013 Sep;18(9):993-1005

Zalachoras I, M. M. Evers, W. M. C. van Roon-Mom, A. M. Aartsma-Rus, O. C. Meijer. “Antisense-mediated RNA targeting: Versatile and expedient genetic manipulation in the brain.”

Frontiers in Molecular Neuroscience 2011; 4:10

Zalachoras I, A. Kagiava, D. Vokou and G. Theophilidis. “Assessing the local anesthetic effect of five essential oil constituents.”

Planta Medica 2010; 76: 1647–1653

Curriculum Vitae

Ioannis Zalachoras was born on 18th April 1984, in Thessaloniki, Greece. In 2002 he graduated from the 16th Lyceum (high school) of Thessaloniki and started his studies at the School of Biology, Faculty of Science, Aristotle University of Thessaloniki. During his Bachelor studies he followed the specialization “Molecular Biology, Genetics and Biotechnology” and completed a research internship at the Laboratory of Animal Physiology, Department of Zoology, School of Biology, Faculty of Science, Aristotle University of Thessaloniki on the project “A comparative study of the effects of five terpenes (linalool, fenchone, p-cymene, a-pinene, cineol) on the isolated sciatic nerve of the frog *Rana ridibunda*” under the supervision of Prof. Dr. George Theophilidis. In July 2007 he obtained his Bachelor’s degree in Biology.

Following his graduation, he moved to Nijmegen, the Netherlands to enroll in the Master’s program “Cognitive Neuroscience” at the Faculty of Social Sciences, Radboud University Nijmegen and followed the track “Neurocognition”. From September 2008 till July 2009 he worked as intern at the Department of Molecular Animal Physiology, Donders Institute of Brain, Cognition and Behaviour, Nijmegen Centre for Molecular Life Sciences, Faculty of Science, Radboud University Nijmegen on the research project “Morphological and molecular dissection of the APO-SUS/UNSUS rat model for neurodevelopmental disorders” under the supervision of Prof. Dr. Gerard Martens and Dr. Michel Verheij. After the completion of this internship he obtained his Master’s degree in Cognitive Neuroscience.

In September 2009, he embarked on the PhD project “Glucocorticoid receptor effector mechanisms for regulation of stress pathways in the brain” under the supervision of Dr. Onno C. Meijer and Prof. Dr. E. Ron de Kloet, initially at the Division of Medical Pharmacology of the Leiden/Amsterdam Center for Drug Research, Faculty of Science, Leiden University and after the closure of the Division of Medical Pharmacology (June 2012) at the Department of Endocrinology at the Leiden University Medical Center, until April 2014. The results of this project are reported in the present thesis.

Travel Grants - Awards

Participated in the paper that received the Top Paper award in the 2014 ENP meeting “Knockdown of the glucocorticoid receptor alters functional integration of newborn neurons in the adult hippocampus and impairs fear-motivated behavior” *Molecular Psychiatry* 2013 Sep;18(9):993-1005.

Received a FENS-Forum travel grant to attend the 9th FENS forum, Milan, Italy, in 2014.

Awarded best abstract prize Dutch Endocrine Society, NVE/ESE Basic Endocrinology course, Amsterdam, the Netherlands, 15-17/01/2014.

Received a Leiden University Fund/Nypels van der Zee travel grant to attend the 43rd Society for Neuroscience annual meeting, in 2013.

Received a travel grant from the Dutch foundation for Pharmaceutical Sciences to attend the 45th European Brain and Behaviour Society meeting, in Munich, Germany, in 2013.

Received a travel grant from the Dutch Foundation for Pharmaceutical Sciences to attend the workshop “Conceptual issues in stress research”, in Erice, Italy, in 2011.