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Vanja Nagy, PhD

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EDUCATION:

MOUNT SINAI SCHOOL OF MEDICINE, NY (2000-2006)
Doctor of Philosophy, Basic Biomedical Sciences- June 2006

- Thesis: "Novel Role and Regulation of the Matrix Metalloprotease Family During Long-Lasting Hippocampal Synaptic and Behavioral Plasticity"
- Thesis advisor: George W. Huntley

STATE UNIVERSITY OF NEW YORK AT ALBANY, NY (1995-1998)
Bachelor of Science, Biological Sciences- May 1998

UNIVERSITY OF MASSACHUSETTS AT AMHERST, MA (1994-1995)

WORK EXPERIENCE:

Mediterranean Institute for Life Sciences, Split, Croatia (Oct. '07-Present)
Postdoctoral Fellow – Laboratory of Dr. Ivan Dikic, Tumor Biology Program

Mount Sinai School of Medicine, NY (June '06- June '07)
Postdoctoral Fellow- Laboratory of Dr. George W. Huntley, Neuroscience Dept.

- Investigating a novel role for a family of proteases in functional and structural synaptic plasticity in the hippocampus

New York University School of Medicine, NY (Aug. '99- Jun. '00)
Laboratory Technician- Laboratory of Dr. Lakshmi Devi, Pharmacology Dept.

- Maintained and organized laboratory equipment, inventoried supplies, prepared solutions
- Elucidated the biochemical and functional consequences of heterodimerization of G-protein coupled receptors

Nathan Kline Institute for Psychiatric Research, NYU, NY (Sept. '98- Aug. '99)
Research Assistant- Laboratory of Dr. Samuel Gandy, Dementia Research

- Ordered laboratory supplies and prepared solutions
- Responsible for inventory and genotyping of several transgenic mouse lines
- Studied the neuroprotective effects of estrogen in Alzheimer's disease animal models

State University of NY at Albany, NY (Oct. '95- May'98)
Independent Study, Research Assistant- Laboratory of Dr. Joseph Mascarenhas, Biology Dept.

- Characterized various maize pollen-specific promoter elements in *Arabidopsis thaliana*

University of Massachusetts at Amherst, MA (Jan. '95- May '95)
Independent Study, Research Assistant- Laboratory of Dr. Peter Alpert, Biology Dept

- Responsible for data collection, entry and greenhouse maintenance

PUBLICATIONS:

- **Nagy, V**., Bozdagi, O., and Huntley GW., Extracellular protease matrix metalloprotease-9 is activated by inhibitory avoidance memory and required for long-term memory., Learn Mem. In Press.

- Bozdagi, O., **Nagy, V**., Kwei, K., and Huntley GW., *In vivo* roles for matrix metalloprotease-9 in mature hippocampal synaptic physiology and plasticity. J Neurophys. In Press.

- Bekirov, IH., **Nagy, V.,** Svoronos, A., Huntley, GW., Benson, DL. Cadherin-8 and N-Cadherin differentially regulate pre- and postsynaptic development of the hippocampal mossy fiber pathway. Submitted.

- **Nagy,V**., * Bozdagi, 0., * Matynia, A., Balcerzyk, M., Okulski, P., Dzwonek J., Costa, RM., Silva, AJ., Kaczmarek, L., and Huntley GW. Matrix Metalloproteinase-9 Is Required for Hippocampal Late-Phase Long-Term Potentiation and Memory. J Neurosci., 2006, 26(7):1923-1934.

- Marambaud P, Shioi J, Serban G, Georgakopoulos A, Sarner S, **Nagy V**, Baki L, Wen P, Efthimiopoulos S, Shao Z, Wisniewski T, Robakis NK. A presenilin-1/gamma-secretase cleavage releases the E-cadherin intracellular domain and regulates disassembly of adherens junctions. EMBO J. 2002 Apr 15;21(8):1948-56.

- Gomes I, Jordan BA, Gupta A, Trapaidze N, **Nagy V**, Devi LA. Heterodimerization of mu and delta opioid receptors: A role in opiate synergy. J Neurosci. 2000 Nov 15;20(22)

- Petanceska SS, **Nagy V**, Frail D, Gandy S., Ovariectomy and 17beta-estradiol modulate the levels of Alzheimer's amyloid beta peptides in brain. Neurology. 2000 Jun 27;54(12):2212-7.

RECENT POSTER PRESENTATIONS:

- **Nagy,V**., Bozdagi, O., and Huntley GW. MMP-9 regulates hippocampal synaptic physiology and plasticity. Gordon Research Conference : Matrix Metalloproteases, 2005, Big Sky, MT

- **Nagy, V**., Bozdagi, O., and Huntley GW. LTP-Associated Regulation of Matrix Metalloproteinases. Society for Neuroscience Meeting, San Diego, 2004

- Bozdagi, O., **Nagy, V**., and Huntley, GW. Matrix metalloproteinase- 9 is associated with late-phase long-term potentiation. Society for Neuroscience Meeting, San Diego, 2004

- **Nagy, V**., Bozdagi, O., and Huntley GW. LTP-Associated Regulation of Matrix Metalloproteinases. Axon Guidance & Neural Plasticity, Cold Spring Harbor, NY, 2004

HONORS AND AWARDS:

- Terry Ann Krulwich Doctoral Dissertation Prize, Mount Sinai School of Medicine, NY 2007
- Gordon Research Conference Poster Award, Gordon Conference: Matrix Metalloproteases, Big Sky, MT 2005
- Graduate School Service Award, Mount Sinai School of Medicine, NY, 2002
- Presidential Undergraduate Research Award, SUNY Albany, 1998
- Presidential Undergraduate Research Award, SUNY Albany, 1997
- Howard Hughes Scholarship for Undergraduate Research, SUNY Albany, 1997
- Howard Hughes Scholarship for Undergraduate Research, SUNY Albany, 1996

PROFESSIONAL SOCIETIES:

- Croatian Society of Biochemistry and Molecular Biology
- Molecular and Cellular Cognition Society
- Society for Neuroscience