

CURRICULUM VITAE

OURANIA PAVLOU

PERSONAL DATA

Date of birth: January 19, 1966
Place of birth: Thessaloniki
Citizenship: Greek
Work address: Division of Genetics, Cell and Developmental Biology
Department of Biology
School of Natural Sciences
University of Patras
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EDUCATION

9/87-8/94 Doctorate of Philosophy (Ph.D.)
Graduate program in Genetics
Dept. of Genetics and Cell Biology
University of Minnesota, Minneapolis,
Minnesota, U.S.A.
Thesis title: "Investigation of the regulation of
calbindin-D28k in the mammalian central nervous system".

9/83-5/87 Bachelor of Arts in Biochemistry and Mathematics.
Smith College, Northampton, Massachusetts, U.S.A.
Biochemistry honors thesis title:
"Cloning and analysis of *HhaI* repeated DNA sequences from a
periodic and a subperiodic strain of the human filarial parasite
Brugia malayi".

EMPLOYMENT

12/09-today Laboratory Teaching Personnel
Division of Genetics, Cell and Developmental Biology
Department of Biology
School of Natural Sciences
University of Patras

03/07-02/10 Non-tenured teaching personnel
Department of Biological Applications and Technologies,
School of Sciences and Technologies,
University of Ioannina

01/02-08/09	Non-tenured teaching personnel Department of Materials Science, School of Natural Sciences University of Patras
11/06-01/07	Non-tenured teaching personnel Department of Pharmacy, School of Natural Sciences University of Patras
10/01-01/02	Non-tenured teaching personnel Technological Institute of Crete
01/95-07/01	Postdoctoral fellow Institute of Molecular Biology and Biotechnology and Department of Basic Sciences, School of Medicine University of Crete
9/87-8/94	Research Assistant Department of Genetics and Cell Biology and Institute of Human Genetics, University of Minnesota, Minneapolis, Minnesota, U.S.A.

TEACHING EXPERIENCE

- A. Laboratory Teaching Personnel**, Department of Biology, University of Patras. Instructing laboratory exercises in the following courses: Genetics I and II, Microbiology, Applied Microbiology, Biochemistry
- B.** Non-tenured teaching personnel, Department of Biological Applications and Technologies, University of Ioannina. Taught the following courses: Developmental Biology, Cell Biology, Animal Physiology I and II.
- C.** Non-tenured teaching personnel, Department of Materials Science, University of Patras. Taught the following courses: Cell Biology I and II, Cell Biology Laboratory, Introduction to Biomaterials, Advanced Biomaterials.
- D.** Non-tenured teaching personnel, Department of Pharmacy, University of Patras. Instructed laboratory exercises in Instrumental Pharmaceutical Analysis.
- E.** Non-tenured teaching personnel, Technological Institute of Crete. Instructed laboratory exercises in Genetics.
- F.** Teaching assistant, Department of Genetics and Cell Biology, University of Minnesota. Instructing laboratory exercises in the following courses: Introductory Genetics, Laboratory Genetics.
- G.** Teaching assistant in Linear Algebra, Department of Mathematics, Smith College.
- H.** Tutor for Mathematics and Chemistry, Center for Academic Assistance, Smith College.

RESEARCH INTERESTS

- Investigating the neuroprotective role of proteins in animal models of Parkinson's disease

- Cell-biomaterial interactions

PARTICIPATION IN RESEARCH PROGRAMS

2009-today	"Toxic Environmental Factors, Natural pharmaceuticals and Protective Defense Mechanisms". University of Patras Intra-University Network (Neurotox) (http://www.neurotox.upatras.gr/).
2003-2006	"Study of the signal transduction pathways in the striatum of dopamine-depleted mice and examination of the neuroprotective role of glutathione in transgenic mice", K.Karatheodoris grant from the University of Patras.
2000-2001	"Molecular mechanisms of cerebellar development". Greek Secretariat for Research and Technology (PENED 99).
1999-2000	"Evaluation of the role of Fc-chimeric adhesion molecules of the Ig superfamily in modulating neural cell interactions". BIOTECHNOLOGY (BIO4-CT98-0329), European Union.
1997-1999	"Study of the expression patterns and interactions of human neuronal cell adhesion molecules and relation to nervous system disorders". PLATON Greek-French collaborative program.
1996-1999	"Neuronal Plasticity". BIOMEDICINE II (BMH4-CT95-0524) European Union.

MEMBERSHIPS

- Sigma Xi Scientific Research Society (U.S.A.) (1987)
- Hellenic Society for Biochemistry and Molecular Biology (1996)
- Hellenic Society for Neuroscience (1997)
- International Brain Research Organization (1997)
- Federation of European Neuroscience Societies (1997)
- Society for Neuroscience (U.S.A.) (1998)

HONORS AND DISTINCTIONS

- Bachelor of Arts *cum laude* and with High Honors in Biochemistry, Smith College (1987)
- C. Pauline Burt Prize from Smith College for research and academic excellence in Biochemistry (1987)
- Dean's List, Smith College (1984, 1985, 1986, 1987)
- Elected associate member of Sigma Xi (1987)
- Scholarship from Smith College (9/83-5/87)

PUBLICATIONS

Ph.D. Thesis:

A1. O. Pavlou, "Investigation of the regulation of calbindin-D28K in the mammalian central nervous system", Doctoral dissertation, Department of Genetics and Cell Biology, University of Minnesota (1994).

Research papers

B1. O. Pavlou, R. Ehlenfeldt, S. Horn, H. T. Orr, "Isolation, characterization and *in vivo* analysis of the murine *calbindin-D28K* upstream regulatory region", *Mol. Brain Res.*, **36**, 268-279 (1996).

B2. M. Buttiglione, J.M. Revest, **O. Pavlou**, D. Karagogeos, A. Furley, G. Rougon, C. Faivre-Sarrailh, "A functional interaction between the neuronal adhesion molecules TAG-1 and F3 modulates neurite outgrowth and fasciculation of cerebellar granule cells", *J. Neurosci.*, **18**, 6853-6870 (1998).

B3. O. Pavlou, C. Theodorakis, J. Falk, M. Kutsche, M. Schachner, C. Faivre-Sarrailh, and D. Karagogeos, "Analysis of interactions of the adhesion molecule TAG-1 and its domains with other immunoglobulin superfamily members", *Mol. Cell. Neurosci.*, **20**, 367-381 (2002).

B4. M. Denaxa*, **O. Pavlou***, P. Tsiotra, G.C. Papadopoulos, K.Liapaki, C. Theodorakis, C. Papadaki, D. Karagogeos, and J. Papamatheakis, "The upstream regulatory region of the human homologue of the neuronal cell adhesion molecule TAG-1 contains elements driving neural specific expression *in vivo*", *Mol. Brain Res.*, **118**, 91-101 (2003).

(* Equal contribution)

B5. K. Botsakis*, **O.Pavlou***, P.Poulou*, N. Matsokis and F. Angelatou "Blockade of adenosine A_{2A} receptors downregulates DARPP-32 but increases ERK1/2 activity in striatum of dopamine deficient "weaver" mouse", *Neurochem. Int.*, **56**, 245-249 (2010).

(* Equal contribution)

Book chapters:

C1. D. Karagogeos and **O. Pavlou**, Mouse mutations in the study of cerebellar development in "Mouse Models in the Study of Genetic Neurological Disorders", B. Popko (editor), *Advances in Neurochemistry*, vol. 9, Plenum Publishers, New York, 63-97, (1999).