

CURRICULUM VITAE

Frank Leonard Margolis, Ph.D.

Professor, Department of Anatomy and Neurobiology, Department of Psychiatry
University of Maryland School of Medicine

Date August 26, 2014

Contact Information

Business Address: Department of Anatomy and Neurobiology
20 Penn Street
HSF II, Room S203D
Baltimore, MD, 21201
Business phone number: 410-706-8913
Fax: 410-706-2512
Email: FLMOMP@gmail.com
Foreign languages: French (working knowledge)

Education

1959 B.S., Chemistry, Antioch College
1964 Ph.D. Biochemistry, Columbia University, Thesis Advisor-Philip Feigelson Ph.D.,
Title of thesis "Studies with the genetically-determined rabbit atropinesterase"

Pre-doctoral Fellowships:

1959-1960 NIH Predoctoral Trainee, Dept. of Biochemistry, Columbia University
1960-1961 NSF Cooperative Graduate Fellow, Dept. of Biochemistry, Columbia University
1961-1964 NIH. Predoctoral Fellow, Dept. of Biochemistry, Columbia University

Post Graduate Education and Training

1964 - 1965 NIH Postdoctoral Trainee, Dept. of Biochemistry, Columbia University, Mentor,
Philip Feigelson Ph.D.
1965 -1966 NIH Postdoctoral Fellow, Laboratoire de Physiologie Comparée, Université de
Paris, Mentor, Alfred Jost M.D.

Employment History

1954 - 1959 6 months as laboratory technician at each of the following:
- Ciba Pharmaceutical Corporation
- Antioch College, Dept. of Chemistry
- Scripps Institute of Oceanography
- Columbia University, Dept. of Biochemistry
1959 - 1964 Ph.D. Candidate, Department of Biochemistry, Columbia University

Academic Appointments

- 1964 Visiting Summer Investigator, The Jackson Laboratory
1965 -1966 Postdoctoral Fellow, Laboratoire de Physiologie Comparée, Université de Paris
1966 - 1969 Assistant Research Microbiologist (non-tenure track) Department of Medical Microbiology and Immunology, UCLA School of Medicine
1969 - 1971 Research Associate, Roche Institute of Molecular Biology
1971 - 1973 Assistant Member, Roche Institute of Molecular Biology
1972 - 1995 Adjunct Professor, Graduate Program in Biochemistry, City University of New York
1974 - 1980 Associate Member, Roche Institute of Molecular Biology
1981 - 1988 Full Member, Roche Institute of Molecular Biology
1987 - 1988 Acting Chairman, Department of Neurosciences, Roche Institute of Molecular Biology
1988 - 1995 Head, Laboratory of Chemosensory Neurobiology, Roche Institute of Molecular Biology
1995-present Professor, Department of Anatomy and Neurobiology, UMB School of Medicine
2005-present Professor (secondary), Department of Psychiatry, UMB School of Medicine

Professional Society Memberships

- 1970-present American Association for the Advancement of Science
1973-present American Society for Biochemistry and Molecular Biology
1980-2007 American Society for Pharmacology and Experimental Therapeutics
1970-2006 American Society for Neurochemistry
1975-2006 International Society for Neurochemistry
1975-2013 Society for Neuroscience
1964 Phi Lambda Upsilon
1970-2012 Sigma Xi
1978-present Association for Chemoreception Sciences
2005-2006 International Society for Developmental Neuroscience
2005-2007 Research Society for Alcoholism

Honors And Awards

- Listed in "American Men and Women of Science"
Listed in "Who's Who in the East"
Listed in "Who's Who in Frontier Science and Technology"
- 1985 Recipient of S. Freeman Memorial Award for "Innovative Research in the Chemoreception Sciences - 1985".
1986 Philips Memorial Lecturer in Biology, Haverford College, Haverford, Pennsylvania
1992 Medalist-LVMH Award «Science pour l'art »
1993 Recipient of the "Frank Allison Linville's R.H. Wright Award in Olfactory Research".
1995 Recipient of the "Scientific Sense of Smell Award for 1995", Olfactory Research Fund.
2004 Visiting Professor: Kansas State University, NSF-ADVANCE Program, Manhattan KS
2007 Visiting Professor University of Torino, Italy

Administrative Service

Institutional Service

Roche Institute of Molecular Biology

1975-1995 Ph.D. Thesis Oversight Committees
1977-1978, 1994 Staff Senate President
1976-1985 Departmental Seminar Committee
1992-1993 Departmental Seminar Committee
1978-1990 Chair, Animal Care Committee
1976-1980 Safety Committee
1980-1988 Library Committee
1985-1994 Institute and Departmental Search Committees
1984-1988 Neuron Journal Club Organizer
1988-1989 Acting Chairman, Department of Neurosciences
1988-1994 Supervisor, Departmental DNA sequencing and oligonucleotide synthesis facility

Hoffmann-La Roche Inc.

1978-1991 Institutional Animal Care and Use Committee
1982-1985 Chairman, Committee on Animal Research Protocol Review
1986-1991 Member, Committee on Animal Research Protocol Review
1982-1985 Mentor, High School Science Teacher Training Program

City University of New York, NY

1979 Co-organizer Graduate Neurochemistry Course
1978-1990 Second Level Examining Committee and Ph.D. Thesis Committees

University of Maryland School of Medicine

2000 Intramural Grant Review Committee (REEF)
2001 GRA Allocation Advisory Committee
2003 REEF Instrumentation Award Committee
1996-2005 Faculty Search Committee, Dept. of Anatomy & Neurobiology
(Chair, 1996, 2000, 2005)
1996-2002 Space and Resources Committee, Dept. of Anatomy & Neurobiology
(Chair, 2000-2002)
1996-2004 Graduate Committee, Dept. of Anatomy & Neurobiology
1996-present Chairman's Advisory Committee, Dept. of Anatomy & Neurobiology
1997 Alternate, Faculty Council
1997 Seminar Committee, Dept. of Anatomy & Neurobiology
1997-present Training Committee, Program in Neuroscience
1998 Representative, Faculty Council
1998 Dept. Biochemistry and Molecular Biology Advisory Committee on Molecular Structure
1999-2010 Transgenic Advisory Committee
2000-2005 Dept. Biochem/Molec.Biol.NMR protein structure facility advisory Committee
2000-2003 Executive Committee, Faculty Representative
2001-2009 Curriculum Committee, Program in Neuroscience
2001-2003 UMB SOM Appointments, Promotions and Tenure Committee

2001-present	Promotion and Tenure Committee, Dept. of Anatomy & Neurobiology (Chair, 2004, 2005)
2001-2002	Biopolymer Facility Oversight Committee
2002	Search for Chair, Dept. Physiology ad hoc member
2002	Co-organizer, Symposium "Frontiers in Sensory Biology: Translation to Therapy", Program in Neuroscience
2002	Discussion leader, Tri-Campus PIN meeting
2002-2003	Chair, Search for Director of Transgenic Facility
2002-2003	Space Allocation Advisory Committee HSF-2, Dept. of Anatomy & Neurobiology
2002-2013	Qualifying Examination Committees, Program in Neuroscience
2003	Chair, Session on Transgenics, SOM-Research Retreat
2003-2010	Chair, Faculty Advisory Committee Transgenic Core Facility
2004	Dept. of Psychiatry Faculty Search ad hoc member
2004-2005	Co-chair, Faculty Search Committee, Dept. of Anatomy & Neurobiology
2005, 2007	RAAC Core Facility Review Committee
2005-2006	Member Search Comm. for Chair of Dept. Biochem. Molec. Biol.
2006-2009	GPILS Curriculum Development Committee
2006-2008	GPILS Training Grant Committee
2006-2010	Director of Graduate Studies, Program in Neuroscience
2007- 2009	Dean's Scientific Advisory Council
2009	Internal Advisory Board Metabolic and developmental aspects of mental retardation, Mary C. McKenna, Ph.D., P.I.
2010-2014	Chair, Departmental mentoring committee for pre-tenured faculty member
2012	Member Committee on Research Misconduct
2012-present	Member UMB IACUC
2012-present	Director Graduate Studies Molecular Medicine MS Program

Local and National Service

1970-present	External or Ad Hoc Reviewer for Grant Proposals: NIH, NSF, VA, Research Corp., U.S. Army, Hoffmann-La Roche-CMDNJ Foundation, Alzheimer's Disease Foundation Tobacco Research Council, NIH Special Study sections(2x/year)
1970-present	Advisory Consultant: NIH Site Visit Teams, Ad hoc reviewer for various NIH Study Sections.(2x/year)
1970-present	Reviewer for manuscripts: <i>Brain Research; J. Neurochem.; Arch. Biochem. Biophys., Proc. Natl. Acad. Sci., J. Biol. Chem., Anal. Biochem, Science, Nature, J. Neurosci., J. Comp. Neurol.</i> etc. (3-5x/year).
1975-1981	<i>Neurochemical Research</i> Editorial Advisory Board
1977	Member NSF Select Panel: "Assessment of Needs of the Chemosensory Research Community in the United States"
1978	Association for Chemoreception Sciences (AChemS): Organizing Committee
1979-1981	Member Grants Review Panel: NSF Sensory Physiology and Perception Program
1979, 1981	American Society for Neurochemistry: Program Committee
1981-1982	International Society for Neurochemistry: Committee on Nominations
1981	Sigma Xi Nominating Committee
1979-1983	American Society for Neurochemistry Councilor
1983, 1990-1991	Sigma Xi: Admissions Committee
1984-1994	American Society for Neurochemistry, Fundraising Committee on Travel for Young Investigators
1982-1994	<i>Chemical Senses</i> Editorial Board
1986	Sigma Xi: Treasurer

1990 AChemS Awards Committee
 1990, 1992, 1996, 2013 Member: NSF Graduate Fellowship Panel
 1991 National Science Scholars Program, N.J. State Nominating Committee
 1992, 2009-2012 AChemS Program Committee
 1993 Member: Smell, Taste and Touch and Chemosensory Disorders Expert Panel To Update The National Strategic Research Plan, NIH/NIDCD
 1993 Special Member: Sensory Disorders and Language Study Section, NIH/NIDCD
 1993 *Neurobiology* Editorial Board
 1993 Member: External Advisory Committee, Smell and Taste Center, Univ. of Pa.
 1994 Member: External Advisory Committee, Monell Center for the Chemical Senses
 1994 Member: Panel on ONR Research Opportunities in Biology and Medicine/Naval Studies Board, National Research Council
 1994-1996 Governing Committee for the R.H. Wright Award in Olfactory Research
 1999-2004 Internal Advisory Committee, Howard University SNRP NINDS
 2003-2004 External Advisory Committee Dept. Biochem SUNY Buffalo PPG
 2004-2006 External Advisory Committee, Howard University SNRP NINDS
 2004-2006 Scientific consultant Drinker, Biddle and Reath LLP
 2005-2006 Eligibility Consultant: NSF Graduate Research Fellowship Program
 2007 Scientific Consultant Telethon Foundation, Italy
 2008-2013 Scientific Consultant AgraQuest Inc.
 2009 External consultant NIH SEP SRG ZRG1 F01-E
 2009 Fellowship review Panel Brain Disorders and related Neuroscience, BPNS ZRG1 F01W
 2009 Internal reviewer UM Dental School T32 Training Grant
 2009 External reviewer Univ. of Utah Program in Neuroscience
 2010 NIH CDRC Fellowship Review Panel
 2012 Reviewer AIBS Military Medical Research and Development
 2013 Scientific consultant Patton Boggs LLC
 2014 Scientific consultant US Army Corps of Engineers, Engineer Research and Development Center (ERDC)

Teaching Service

Teaching

Medical Student Teaching

1998-2000 Medical Neuroscience Group leader “Neuronal Stem Cells”
 UMB School of Medicine
 2010-present Structure and Development, “Epithelium”, UMB School of Medicine

Post-Graduate Teaching

1979 Co-organizer and instructor: Graduate Neurochemistry Course
 City University of New York, 25 students, 2 contact hours per week
 1999 Lecturer: Developmental Neurobiology Course UMB School of Medicine, 15 students, 3-5 contact hours/year
 2001-present Discussion group leader: CIPP 907 Research Ethics, 12 students 2-4 contact hours/year
 2004-2007 Co-course master: CIPP 907 Research Ethics, 40 students, 15-20 contact hours/year
 2001 Molecular Neurobiology Section Head, Intro to Neurosciences NACS 641, UMB School of Medicine, 15 students, 5-10 contact hours/year
 2002 Group leader, “Intro to Grantspersonship” 30 students, 2-3 contact hours/year

- 2002-2013 GPLS-737 Proseminar, UMB School of Medicine, 10 students, 40-50 contact hours/year
- 2006-2009 Organizer "Alternate Careers in Biological Science" 25 students, 5-10 contact hours/year
- 2014 Organizer, Brown Bag Research Rounds Mol. Med. MS Program, 10 students, 25 contact hours /year

Ph.D. THESES SUPERVISED

- 1970-1975 Angelica Keller: "Studies with a Protein Purified from Rat Olfactory Bulbs That is Specific to the Olfactory Chemoreceptor Neuron", Graduate Department of Biochemistry, City University of New York
- 1977-1981 Sarah Rochel: "Biochemical Events Associated with Neuronal Regeneration and Synaptic Function in the Olfactory Pathway", Graduate Department of Biochemistry, City University of New York
- 1996-2001 Martina Pyrski: "Characterization of the OR-Z6 gene" – Department of Anatomy and Neurobiology, UMB School of Medicine, Baltimore MD
- 1996-2004 Walter Kostich: "Characterization of primate corticotrophin releasing factor receptors", Department of Anatomy and Neurobiology, UMB School of Medicine, Baltimore MD
- 2001-2005 Yiling Nie – "Taste transduction." Department of Anatomy and Neurobiology, UMB School of Medicine, Baltimore MD (co-Mentor with S. Munger).
- 2003-2006 Hyun Hee Kim- Transynaptic effects in piriform cortex of olfactory nerve lesion" Department of Anatomy and Neurobiology, UMB School of Medicine, Baltimore MD

EXAMINING COMMITTEES

Ph.D. Theses

- 1979-1982 George Bobotas: Doctoral Thesis Committee, Graduate Department of Biochemistry, City University of New York
- 1979-1981 Stanley Kirschenbaum: Doctoral Thesis Committee, Graduate Department of Biochemistry, City University of New York
- 1980-1983 Thomas O'Hara: External Examiner, Doctoral Thesis Committee, Department of Anatomy, Wayne State University, School of Medicine
- 1978-1980 Peter Simmons: External Examiner, Doctoral Thesis Committee, Department of Physiology, Yale University, School of Medicine
- 1986 Akira Hishinuma: External Examiner, Doctoral Thesis Committee, Department of Biology, Columbia University
- 1986 Diptendu Chattopadhyaya: External Examiner, Doctoral Thesis, Department of Biochemistry, University of Calcutta
- 1987-1992 Maureen Talbot: Chair-Doctoral Thesis Committee, Graduate Department of Biochemistry, City University of New York
- 1992 Christopher Turner: External Examiner, Doctoral Thesis Committee, Department of Neurosciences, University of Texas Medical Branch, Galveston
- 1993 Yongquan Lo: External Examiner, Doctoral Thesis Committee, Department of Anatomy and Cell Biology, SUNY Health Science Center
- 1996 Wei Zhang: External Examiner, Doctoral Thesis Committee, Graduate Department of Biochemistry, City University of New York
- 1996 Michael Hayward: External Examiner, Doctoral Thesis Committee, Department of Biology, Columbia University
- 1996 Heidi Clariss:- External examiner, Doctoral Thesis, University of Melbourne, Australia

- 1997 Helen Treloar: External examiner, Doctoral Thesis, University of Melbourne, Australia
- 1998 Simone Zehnter: External examiner, Doctoral Thesis, Griffith University, Queensland, Australia
- 1996-2000 Gregory Carlson: Doctoral Thesis Committee, Department of Anatomy and Neurobiology, UMB
- 1998-2002 Tian Shu-Doctoral Thesis Committee, Department of Anatomy and Neurobiology, UMB
- 2003-2007 Jill Sharifi-Silverman: Doctoral Thesis Committee, UMB Program in Neuroscience
- 2003-2008 Renee Cockerham: Doctoral Thesis Committee, UMB Program in Neuroscience
- 2004 Aubrey Shoko: External examiner, Doctoral Thesis, University of Cape Town
- 2001-2005 Yiling Nie: Doctoral Thesis Committee UMB Program in Neuroscience
- 2003-2005 Ted Nelson: Doctoral Thesis Committee UMB Program in Neuroscience
- 2005 Kathleen McBride: Member, Doctoral Thesis examining committee, Dept of Psychology, American University
- 2005-2009 Mihyun Bae: Doctoral Thesis Committee UMB Program in Neuroscience
- 2005-2008 Peter Murray: Doctoral Thesis Committee UMB Program in Neuroscience
- 2007-2008 Cigdem Tosun: Doctoral Thesis Committee UMB Program in Neuroscience
- 2006-2008 YiChun Hsieh: Doctoral Thesis Committee UMB Program in Neuroscience
- 2006-08 Nathan Wright: Doctoral Thesis Committee UMB Program in Biochemistry and Molecular Biology
- 2007-2011 Amanda Elson: Doctoral Thesis Committee UMB Program in Neuroscience
- 2008-2009 Jennifer Laing: Doctoral Thesis Committee UMB Program in Microbiology
- 2008-2012 Stephanie Parrish-Aungst: Doctoral Thesis Committee UMB Program in Neuroscience
- 2008-2012 Melissa Liriano: Doctoral Thesis Committee UMB Program in Biochemistry and Molecular Biology
- 2008 Jana Vukovic: External examiner, Doctoral Thesis 2008 University of Western Australia
- 2009-2014 Dushon Riley: Doctoral Thesis Committee UMB Program in Neuroscience
- 2009-2013 Katelyn Niu: Doctoral Thesis Committee UMB Program in Neuroscience
- 2009-2011 Sara Shelton Taylor: Doctoral Thesis Committee UMB Program in Neuroscience
- 2009-2012 Akina Hoshino: Doctoral Thesis committee UMB Program in Neuroscience
- 2009-2012 Bridget Nugent-: Doctoral Thesis Committee UMB Program in Neuroscience
- 2010-2013 Cedric Uytingo: Doctoral Thesis Committee UMB Program in Neuroscience
- 2011-2014 Adam Clark: Doctoral Thesis committee UMB Program in Toxicology
- 2013 Tom Fuller: Doctoral Thesis Committee Program in Molecular Medicine
- 2013 Tyler Demarest: Doctoral Thesis Committee UMB Program in Neuroscience
- 2014-present Sarah Rudzinkas: Doctoral Thesis Committee UMB Program in Neuroscience

Masters Theses

- 1978-1981 Victoria Olejer: External Member, Masters Thesis Committee, Department of Biochemical Nutrition, Rutgers University
- 1981-1984 Steven Greene: External Member, Masters Thesis Committee, Department of Biochemical Nutrition, Rutgers University (1981-1984).
- 1996 Tanya Foster: Member, Masters Thesis Committee, Department of Anatomy and Neurobiology, UMB
- 1999 Shen Du: Member, Masters Thesis Committee, Department of Anatomy and Neurobiology, UMB
- 2002 Kathleen McBride-Member, Master's Thesis examining committee, Dept of Psychology, American University
- 2013 Mary Sedegagh: Masters Thesis Committee, Program in Molecular Medicine UMB
- 2013 Aparna Baxi: Masters Thesis Committee, Program in Molecular Medicine UMB
- 2013 Ankit Bhatta: Masters Thesis Committee, Program in Molecular Medicine UMB

2013 Laura Shoop: Masters Thesis Committee, Program in Molecular Medicine UMB

Mentor:

1989 Thomas V. Getchell PhD: NRSA Senior Research Fellowship, "Molecular Neurobiology of Olfactory Reception,"
1993-1995 Angela R. Porta PhD: NINDS Re-entry into Neurological Sciences Fellowship Award, "CASH: A Novel bHLH Protein: Role in Gene Transcription,"
2006-2007 Mark Smiley BS: NIH-Minority Supplement 2006-2007

Pre-candidacy student advisory committees (Program in Neuroscience):

2000 Brian Polster
2001 Renee Cockerham
2002 Jimok Kim
2002 Alexis Hattox
2002 Erica Martin
2004 Jennifer Mackes
2004-2006 Aubrey Siebert
2006-2007 Stephanie Cerceo
2008-2009 Bryan Chai
2009-2010 Roger Mullins
2009-2011 Katherine Friel Gilpin
2011-2013 Nisha Pulimood
2011-2013 Sarah Ransom
2011-2012 Adam Clark-(Program in Toxicology)
2011-2013 David Kurland
2012-2013 Jonathan Van Ryzin
2012-2013 Janell Payano Sosa

Student advisory committees (Dept. Anatomy/Neurobiology):

1996 Tanya Foster
1998-1999 Tian Shu
2003-2004 Hyun Hee Kim
2003 Ted Nelson
2004 Mei Hyun Bae

Lab. Rotation students-(UMB)

1997 Zheng Xu
1997 David Freilich
1998 Brian Rash
1999 Yuan Tian
1999 Eric Lancaster
2001 Yiling Nie
2002 Gregory Bell
2003 Hyun Hee Kim
2002 Renee Cockerham
2004 Carey Stamps
2004 Shannon Campbell-MEDT
2008 Sylvina Mullins

Grant Support:

Completed Grants

1997 – 2012	PI 45% effort “OMP: Role in olfactory signal detection and transduction” NIH/NIDCD 1RO 1DC03112 Total Direct Costs awarded Year 15 \$ 355,000 Total Direct Costs \$ 4,100,000 Supplement 1 Total Direct Costs Awarded \$34,000 Supplement 2 Total Direct Costs Awarded \$16,000
1999-2004	Eric Walters PI FLM Co-I/Mentor 20% effort Program Director: Musa Haxhiu Program Title: “Neuronal and chemical control of breathing and airway functions.” Project 3 “Gene regulation involved in plasticity of the olfactory system” 1U54 NS39407 Total Direct Costs Awarded \$130,000
1999-2003	PI: S.L. Youngentob FLM Co- I 10% effort “A Behavioral Analysis of OMP’s Role in Odor Processing” NIH/DCD 1R01 DC03904 Total Direct Costs Awarded \$42,000
2000-2005	M. Shipley PI FLM PI Project 3 15% effort “Chemoreception: From Molecules to Networks” Project 3 “Afferent regulation of developing mitral cell phenotype” NIH/NIDCD 2 P01 DC00347 Total Direct Costs Awarded \$754,200
2001-2004	R. Gitti PI FLM Co-I 5% effort “Structural and Dynamical Studies of OMP using NMR” NIH/DCD 1RO3 DC04752 Total Direct Costs Awarded \$150,000
2002-2007	PI (no salary; 5 %effort) “Training Program in Chemosensory Neuroscience” NIH- NIDCD 5T32 DC00054 Total Direct Costs Awarded \$ 330,000
2005-2006	Linda Richards PI FLM Co-I 5% effort “Molecular regulation of human callosal development” NIH-NINDS R21 NS045841 Total Direct Costs Awarded \$142,500
2006-2008	PI 15% effort “Neuronal loss and replacement after ethanol and abstinence” ABMRF Total Direct Costs Awarded \$100,000
2012-2014	Steven Munger PI FLM Co-I 5% effort “Mechanisms of odor detection and transduction” NIH/NIDCD R21 DC012501 Total Direct Costs Awarded \$274,746

Publications:**Peer-reviewed journal articles**

1. Feigelson, P., Dashman, T. and **Margolis, FL.**: The half lifetime of induced tryptophan peroxidase *in vivo*. Arch. Biochem. Biophys. 85 : 478 (1959).
2. **Margolis, FL.** and Feigelson, P.: Purification and characterization of a genetically-determined rabbit serum esterase. J. Biol. Chem. 238 : 2620 (1963).
3. **Margolis, FL.** and Feigelson, P.: Atropinesterase, a sialoprotein. Biochem. Biophys. Acta 89 : 357-360 (1964).
4. **Margolis, FL.** and Feigelson, P.: Genetic expression and developmental studies with rabbit serum atropinesterase. Biochem. Biophys. Acta 90 : 117 (1964).
5. **Margolis, FL.**: Studies with the genetically-determined rabbit atropinesterase. Ph.D. Thesis 1964 (Dissert. Abstr. 26 : No. 5, 1965).
6. **Margolis, FL.** and Russell, ES.: D-Aminolevulinate dehydratase activity in mice with hereditary anemia. Sci. 150 : 496 (1965).
7. **Margolis, FL.**, Roffi, J. and Jost, A.: Norepinephrine methylation in fetal rat adrenals. Sci. 154 : 275-276 (1966).
8. Roffi, J. and **Margolis, FL.** : Synthese d'adrenaline dans le tissu chromaffine extra-surrenalien, chez le Rat nouveau-ne, sous l'effet de l'hydrocortisone ou de la corticostimuline. C. R. Acad. Sci. (Paris) 263 : 1496-1499 (1966).
9. Zamenhof, S., van Marthens, E. and **Margolis, FL.**: DNA (cell number) and protein in neonatal brain: Alteration by maternal dietary protein restriction. Sci. 160 : 322-323 (1968).
10. **Margolis, FL.**: DNA and DNA-polymerase activity in chicken brain regions during ontogeny. J. Neurochem. 16 : 447-456 (1969).
11. **Margolis, FL.** and Bondy, S.: Unilateral visual deprivation and avian optic lobe development. Life Sci. 8 : 1195-1199 (1969).
12. Bondy, S. and **Margolis, FL.**: Effects of unilateral visual deprivation on the developing avian brain. Exp. Neurol. 25 : 447-459, 1969.
13. Bondy, S. and **Margolis, FL.**: Effect of unilateral enucleation on protein and ribonucleic acid metabolism of avian brain. Exp. Neurol. 27 : 344-352 (1970).
14. **Margolis, FL.** and Bondy, S.: Effect of unilateral visual deprivation by eyelid suturing on protein and ribonucleic acid metabolism of avian brain. Exp. Neurol. 27 : 353-358 (1970).
15. **Margolis, FL.**: Regulation of porphyrin biosynthesis in the harderian gland of inbred mouse strains. Arch. Biochem. Biophys. 145 : 373-381 (1971).
16. **Margolis, FL.**: A brain protein unique to the olfactory bulb. Proc. Nat. Acad. Sci. 69 : 1221-1224 (1972).
17. **Margolis, FL.**: Solid-phase radioimmune assay using ³H-labeled antigen for the mouse olfactory bulb specific protein. Anal. Biochem. 50 : 602-607 (1972).
18. **Margolis, FL.** and Tarnoff, J.: Site of biosynthesis of the mouse brain olfactory bulb protein. J. Biol. Chem. 248 : 451-455 (1973).
19. **Margolis, FL.**: Carnosine in the primary olfactory pathway. Sci. 184 : 909-911 (1974).
20. **Margolis, FL.**, Roberts, N. Ferriero, D. and Feldman, J.: Denervation in the primary olfactory pathway of mice: Biochemical and morphological effects. Brain Res. 81 : 469-483 (1974).
21. Keller, A. and **Margolis, FL.**: Immunological studies of the rat olfactory marker protein. J. Neurochem. 24 : 1101-1106 (1975).
22. Ferriero, D. and **Margolis, FL.**: Denervation in the primary olfactory pathway of mice II. Effects on carnosine and other amine compounds. Brain Res. 94 : 75-86, (1975).
23. Hartman, B. and **Margolis, FL.**: Immunofluorescence localization of the olfactory marker protein. Brain Res. 96 : 176-189 (1975).

24. Harding, J. and **Margolis, FL.**: Denervation in the primary olfactory pathway of mice. III. Effect on enzymes of carnosine metabolism. *Brain Res.* 110 : 351-360 (1976).
25. Baxter, C. F. and **Margolis, F.L.**: Nomenclature proposal for proteins of the nervous system. *Neurochem. Res.* 1 : 229-231 (1976).
26. Keller, A. and **Margolis, FL.**: Isolation and characterization of rat olfactory marker protein. *J. Biol. Chem.* 251 : 6232-6237 (1976).
27. Agrawal, H. C., Hartman, B. K., Fujimoto, K., Shearer, W. T., Kalmbach, S. and **Margolis, FL.**: Purification and immunohistochemical localization of rat brain myelin proteolipid protein. *J. Neurochem.* 28 : 495-508 (1977).
28. Brown, C. E., **Margolis, FL.**, Williams, T., Pitcher, R. and Elgar, G.: Carnosine in Olfaction. Proton magnetic resonance spectral evidence for tissue-specific carnosine binding sites. *Neurochem. Res.* 2 : 555-579 (1977).
29. **Margolis, FL.** and Grillo, M.: Axoplasmic transport of carnosine (b-alanyl-L-histidine) in the mouse olfactory pathway. *Neurochem. Res.* 2 : 507-519 (1977).
30. Harding, J., Graziadei, P. P. C. and **Margolis, FL.**: Denervation in the primary olfactory pathway of mice. IV. Biochemical and morphological evidence for neuronal replacement following nerve section. *Brain Res.* 132 : 11-28 (1977).
31. Monti-Graziadei, GA., **Margolis, FL.**, Harding, JW. and Graziadei, PC.: Immunocytochemistry of the olfactory marker protein. *J. Histochem. Cytochem.* 25 : 1311-1316 (1977).
32. Harding, J. W., Getchell, T. V. and **Margolis FL.**: Denervation of the primary olfactory pathway in mice. V. Long-term effect of intranasal ZnSO₄ irrigation on behavior, biochemistry and morphology. *Brain Res.* 140 : 271-285 (1978).
33. Horinishi, H., Grillo, M. and **Margolis, FL.**: Purification and characterization of carnosine synthetase from mouse olfactory bulb. *J. Neurochem.* 31 : 909-919 (1978).
34. Hirsch, J. D., Grillo, M. and **Margolis, FL.**: Ligand binding studies in the mouse olfactory bulb: Identification and characterization of L-[³H]carnosine binding site. *Brain Res.* 158 : 407-422 (1978).
35. Nadi, N. S. and **Margolis, FL.**: A simple method for the elimination of amine contaminants in buffers for single column amino acid analysis in physiological samples at picomole levels. *Anal. Biochem.* 91 : 180-185 (1978).
36. **Margolis, FL.**: Carnosine. *Trends in Neurosci.* 1 : 42-44 (1978).
37. Hirsch, J. D. and **Margolis FL.**: Cell suspensions from rat olfactory neuroepithelium: Biochemical and histochemical characterization, *Brain Res.* 161 : 277-292 (1979).
38. Hirsch, J. D. and **Margolis, FL.**: L-[³H]Carnosine binding in the olfactory bulb. II. Biochemical and biological studies. *Brain Res.* 174 : 81-94 (1979).
39. Brown, C. E., **Margolis, FL.**, William, TH., Pitcher, RG. and Elgar, GJ.: Carnosine binding: Characterization of steric and charge requirements of ligand recognition. *Arch. Biochem. Biophys.* 193 : 529-542 (1979).
40. **Margolis, FL.**, Grillo, M., Brown, C. E., Williams, TH., Pitcher, RG. and Elgar, GJ.: Enzymatic and immunological evidence for two forms of carnosinase in the mouse. *Biochem. Biophys. Acta* 570 : 311-323 (1979).
41. Nadi, NS., Hirsch, JD. and **Margolis, FL.**: Laminar distribution of putative neurotransmitter amino acids and ligand binding sites in the dog olfactory bulb. *J. Neurochem.* 34 : 138-146 (1980).
42. Farbman, Al. and **Margolis, FL.**: Olfactory marker protein during ontogeny: Immunohistochemical localization. *Dev. Biol.* 74 : 205-215 (1980).
43. Hirsch, JD. and **Margolis, FL.**: Influence of unilateral bulbectomy on opiate and other binding sites in the contralateral bulb. *Brain Res.* 199 : 39-47 (1980).
44. Rochel, S. and **Margolis, FL.**: The response of ornithine decarboxylase during neuronal degeneration in olfactory epithelium. *J. Neurochem.* 35 : 850-860 (1980).
45. Nadi, NS., Head, R., Grillo, M., Hempstead, J., Grannot-Reisfeld, N. and **Margolis, F L.**: Chemical deafferentation of the olfactory bulb: Plasticity of the levels of tyrosine hydroxylase, dopamine and norepinephrine. *Brain Res.* 213 : 365-377 (1981).

46. Trotter, J.L., Lieberman, L., **Margolis, FL.** and Agrawal, H.C.: Radioimmunoassay for central nervous system myelin-specific proteolipid protein. *J. Neurochem.* 36 : 1256-1262 (1981).
47. Macrides, F., Davis, B.J., Youngs, W.M., Nadi, N.S. and **Margolis, FL.**: Cholinergic and catecholaminergic afferents to the olfactory bulb in the hamster: A neuroanatomical, biochemical and histochemical investigation. *J. Comp. Neurol.* 203 : 495-514 (1981).
48. Rochel, S., Lichtstein, D., Blume, A.J. and **Margolis, FL.**: Membrane potential of olfactory bulb synaptosomal fractions: Characterization with the lipophilic cation tetraphenylphosphonium. *J. Neurosci.* 1 : 1180-1192 (1981).
49. Burd, G.D., Davis, B.J., Macrides, F., Grillo, M. and **Margolis, FL.**: Carnosine in primary afferents of the olfactory system: An autoradiographic and biochemical study. *J. Neurosci.* 2 : 244-255 (1982).
50. Rochel, S. and **Margolis, FL.**: Carnosine release from olfactory bulb synaptosomes is calcium-dependent and depolarization-stimulated. *J. Neurochem.* 38 : 1505-1514 (1982).
51. Kawano, T. and **Margolis, FL.**: Transsynaptic regulation of olfactory bulb catecholamines in mice and rats. *J. Neurochem.* 39 : 342-348 (1982).
52. **Margolis, FL.**: Olfactory marker protein (OMP). In Bock, E. (ed.): *Scand. J. Immunol., Nervous System-Specific Proteins* 15 : 181-199 (1982).
53. Olejer, V., Fisher, H. and **Margolis, FL.**: The histidine requirement of two strains of mice with genetic differences in level of carnosinase activity. *Nutrition Reports International* 26 : 879-885 (1982).
54. Baker, H., Kawano, T., **Margolis, FL.** and Joh, T.H.: Transneuronal regulation of tyrosine hydroxylase expression in olfactory bulb of mouse and rat. *J. of Neurosci.* 3 : 69-78 (1983).
55. **Margolis, FL.**, Grannot-Reisfeld, N., Grillo, M. and Farbman, A.: Purification, characterization, and immunocytochemical localization of mouse kidney carnosinase. *Biochem. Biophys. Acta* 744 : 237-248 (1983).
56. Kream, R., Davis, B., Kawano, T., **Margolis, FL.** and Macrides, F.: Substance P and catecholaminergic expression in neurons of the hamster main olfactory bulb. *J. Comp. Neurol.* 222 : 140-154 (1984).
57. Kream, R. and **Margolis, FL.**: Olfactory Marker Protein: Turnover and transport in normal and regenerating neurons. *J. of Neurosci.* 4 : 868-879 (1984).
58. **Margolis, FL.** and Grillo, M.: Carnosine, homocarnosine and anserine in vertebrate retinas. *Neurochem. Int'l.* 6 : 207-209 (1984).
59. Baker, H., Kawano, T., Albert, V., Joh, T.H., Reis, D.J. and **Margolis, FL.**: Olfactory bulb dopamine neurons survive deafferentation induced loss of tyrosine hydroxylase. *Neurosci.* 11 : 605-615 (1984).
60. **Margolis, FL.** and Grillo, M.: Inherited differences in mouse kidney carnosinase activity. *Biochem. Gene.* 22 : 441-451 (1984).
61. Greene, S., **Margolis, FL.**, Grillo, M. and Fisher, H.: Enhanced carnosine (b-Alanyl-L-Histidine) breakdown and histamine metabolism following treatment with compound 48/80. *European J. of Pharmacol.* 99 : 79-84 (1984).
62. **Margolis, FL.**, Grillo, M., Kawano, T. and Farbman, A.I.: Carnosine synthesis in olfactory tissue during ontogeny: Influence of exogenous b-alanine. *J. Neurochem.*, 44 : 1459-1464 (1985).
63. **Margolis, FL.**, Sydor, W., Teitelbaum, Z., Blacher, R., Grillo, M., Rogers, K., Sun, S., and Gubler, U.: Molecular biological approaches to the olfactory system. Olfactory marker protein as a model. *Chem. Senses*, 10 : 163-174 (1985).
64. Rogers, K., Grillo, M., Poonian, M. and **Margolis, FL.**: Olfactory Neuron-Specific Protein is Translated from a Large Poly(A)⁺mRNA. *Proc. Natl. Acad. Sci.* 82 : 5218-5222 (1985).
65. Kawano, T. and **Margolis, FL.**: Catecholamines in olfactory mucosa decline following superior cervical ganglionectomy. *Chem. Senses*. 10 : 353-356 (1985).
66. **Margolis, FL.**: Olfactory Marker Protein (OMP): From PAGE band to c-DNA clone. *Trends in Neurosci.* 8 : 542-546 (1985).

67. Fisher, H. and **Margolis, FL.**: Essentiality of histidine and muscle carnosine in adult mice. *The Journal of Nutrition*, *116* : 924 (1986).
68. Sydor, W., Teitelbaum, Z., Blacher, R., Sun, S., Benz, W. and **Margolis, FL.**: Amino acid sequence of a unique neuronal protein: Rat olfactory protein. *Archives Biochem. Biophys.* *249* : 351-362 (1986).
69. Baker, H. and **Margolis, FL.**: Deafferentation-induced alterations in olfactory bulb as a model for the etiology of Alzheimer's disease. *Neurobiol. Of Aging* *7* : 568-9 (1986).
70. **Margolis, FL.**, Grillo, M., Hempstead, J. and Morgan, J.: Monoclonal antibodies to mammalian carnosine synthetase. *J. Neurochem.* *48* : 593-600 (1987).
71. Rogers, K., Dasgupta, P., Gubler, U., Grillo, M., Khew-Goodall, Y-S. and **Margolis, FL.**: Molecular cloning and Sequencing of a DNA for Rat OMP. *Proc. Nat. Acad. Sci.* *84*: 1704-1708 (1987).
72. Baker, H., Towle, AC. and **Margolis, FL.**: Differential afferent regulation of dopaminergic and gabaergic neurons in the mouse main olfactory bulb, *Brain Res.* *450* : 69-80 (1988).
73. Verhaagen, J., Oestreicher, A., Gispén, WH., and **Margolis, FL.**: Expression of the growth associated protein B50/GAP43 in the olfactory system of the neonatal and adult rat. *J. Neurosci.* *9* : 683-691 (1989).
74. Baker, H., Grillo, M. and **Margolis, FL.**: Biochemical and Immunocytochemical Characterization of Olfactory Marker Protein in Rodent Central Nervous System. *J. Comp. Neurol.* *285* : 246-261 (1989).
75. Danciger, E., Mettling, C., Vidal, M., Morris, R. and **Margolis, FL.**: The OMP gene: Its structure and olfactory neuron specific expression in transgenic mice. *Proc. Natl. Acad. Sci. USA* *86* : 8565-8569 (1989).
76. Ehrlich, ME., Grillo, M., Joh, TH., **Margolis, FL.** and Baker, H.: Transneuronal regulation of tyrosine hydroxylase mRNA in mouse olfactory bulb. *Molecular Brain Res.* *7* : 115-122 (1990).
77. Gispén, WH., Boonstra, A., De Graan, PNE., Jennekens, FGI., Oestreicher, AB., Schotman, P., Schrama, LH., Verhaagen, J., **Margolis, FL.**: B-50/GAP43 in Neuronal development and repair. *J. Restorative Neurology and Neuroscience*, *1* : 237-244 (1990).
78. Getchell, TV., Grillo, M., Tate SS., Urade, R., Teeter, J. and **Margolis, FL.**: Expression of catfish amino acid taste receptors in *Xenopus* oocytes. *Neurochemical Res.* *15* : 449-456 (1990).
79. Verhaagen, J., Oestreicher, AB., Grillo, M., Khew-Goodall, Y-S., Gispén, WH. and **Margolis, FL.**: Neuroplasticity in the olfactory system: differential effects of central and peripheral lesions of the primary olfactory pathway on the expression of the growth associated protein B-50/GAP43 and the olfactory marker protein. *J. Neurosci. Res.* *26* : 31-44 (1990).
80. Verhaagen, J., Greer, C. and **Margolis, FL.**: B-50/GAP43 gene expression in the rat olfactory system during postnatal development and aging. *European Journal of Neuroscience*, *2* : 397-407 (1990).
81. Biffo, S. Grillo, M. and **Margolis, FL.**: Cellular localization of carnosine-like and anserine-like immunoreactivities in rodent and avian central nervous system (CNS). *Neuroscience*, *35* : 637-651 (1990).
82. Biffo, S., Verhaagen, J., Schrama, LH., Schotman, P., Danho, W. and **Margolis, FL.**: B-50/GAP43 expression and neuritogenesis begin simultaneously in the embryonic mouse nervous system. *European Journal of Neuroscience*, *2* : 487-499 (1990).
83. Grillo, M. and **Margolis, FL.**: Use of RT-PCR to monitor expression of intronless genes. *Biotechniques*, *9* : 262-268 (1990).
84. Biffo, S., DeLucia, R., Mulatero, B., **Margolis, FL.** and Fasolo, A.: Carnosine, calcitonin gene-related peptide and tyrosine hydroxylase immunoreactivity in the mouse olfactory bulb following peripheral denervation. *Brain Rsch.* *528* : 353-357 (1990).
85. Biffo, S., Goren T., Goodall, Y-S., Miara, J. and **Margolis, FL.**: Expression of calmodulin mRNA in rat olfactory neuroepithelium. *Molec. Brain Rsch.* *10* : 13-21 (1991).

86. Goodall, Y-S., Danho, W., Grillo, M., Getchell, ML. and **Margolis, FL.**: Vomeromodulin, a putative pheromone transporter: cloning, characterization, and cellular localization of a novel glycoprotein of lateral nasal gland. *FASEB* 5 : 2976-2982 (1991).
87. Artero, C., Mulatero, B., Biffo, S., Andreone, C., Gozzo, S., **Margolis, FL.** and Fasolo, A.: Distribution of carnosine-like immunoreactivity in the brain of the crested newt. *Brain Behav. Evol.* 37 : 168-178 (1991).
88. Artero, C., Marti, E., Biffo, S., Mulatero, B., Andreone, C., **Margolis, FL.** and Fasolo, A.: Carnosine in the brain and olfactory system of amphibia and reptilia: A comparative study using immunocytochemical and biochemical methods. *Neurosci. Letters* 130 : 182-186 (1991).
89. Stone, D. M., Grillo, M., **Margolis, FL.**, Joh, TH. and Baker, H.: Differential effect of functional olfactory bulb deafferentation on tyrosine hydroxylase and glutamic acid decarboxylase messenger RNA levels in rodent juxtglomerular neurons. *J. Comp. Neurol.* 311 : 223-233 (1991).
90. Dahmen, N., Wang, H-L., and **Margolis, FL.**: Expression of olfactory receptors in *Xenopus* oocytes. *J. Neurochem.* 58 : 1176-1179 (1992).
91. Rama Krishna, NS., Getchell, ML., Tate, SS., **Margolis, FL.** and Getchell, TV.: Glutathione and g-glutamyl transpeptidase are differentially distributed in the olfactory mucosa of rats. *Cell Tissue Res.* 270 : 475-484 (1992).
92. Rama Krishna, NS., Getchell, TV. and **Margolis, FL.**: Amphibian olfactory receptor neurons express olfactory marker protein. *Brain Res.* 593 : 295-298 (1992).
93. Ramakers, GJA., Verhaagen, J., Oestreicher, AB., **Margolis, FL.**, Van Bergen en Henegouwen, PMP. and Gispen WH.: Immunolocalization of B-50 (GAP-43) in the mouse olfactory bulb: Predominant presence in preterminal axons. *J. Neurocytol.* 21 : 853-869 (1992).
94. Hens, JJH., DeWit, M., Dekker, LV., Boomsma, F., Oestreicher, AB., **Margolis, FL.**, Gispen, WH., and DeGraan, PNE.: Studies on the role of B-50 (GAP-43) in the mechanism of Ca⁺⁺ induced noradrenaline release: Lack of involvement of protein kinase C after the Ca⁺⁺ trigger. *J. Neurochem.* 60 : 1264-1273 (1993).
95. **Margolis, FL.**: Regulation of olfactory neuron gene expression. *Cytotechnology* 11:17-22 (1993).
96. **Margolis, FL.** and Grillo, M.: Avoid DNA/RNA contamination in polymerase chain reactions. *Clinical Chemistry* 39 : 162 (1993).
97. Kudrycki, K., Stein-Izsak, C., Behn, C., Grillo, M., Akeson, R. and **Margolis, FL.**: Olf-1-binding site: Characterization of an olfactory neuron-specific promoter motif. *Molec. Cell. Biol.* 13 : 3002-3014 (1993).
98. Sassoè-Pognetto, P., Cantino, D., Panzanelli, P., Verdun di Cantogno, L., Giustetto, M., **Margolis, FL.**, De Biasi, S. and Fasolo, A.: Presynaptic co-localization of carnosine and glutamate in olfactory neurons. *Neuroreport* 5 : 7-10 (1993).
99. Buiakova, O., Rama Krishna, NS., Getchell, TV. and **Margolis, F.L.**: Human and Rodent OMP genes: Conservation of structural and regulatory motifs and cellular localization. *Genomics* 20:452-486 (1994).
100. Bettini, E., Porta, A., Dahmen, N., Wang, H. and **Margolis, FL.**: Expressed sequence tags (EST) identify genes preferentially expressed in catfish chemosensory tissues. *Molecular Brain Research* 23:285-291 (1994).
101. Rama Krishna, NS., Getchell, ML., **Margolis, FL.** and Getchell, TV.: Differential Expression of Vomeromodulin and Odorant Binding Protein, Putative Pheromone and Odorant Transporters, in the Developing Rat Nasal Chemosensory Mucosae. *J. Neuroscience Research* 40:54-71 (1995).
102. Baker, H., Franzen, L., Stone, D. and **Margolis, FL.**: Expression of tyrosine hydroxylase in the aging, rodent olfactory system. *Neurobiology of Aging*:16 (1995).
103. Charles, P., Walters, E., **Margolis, FL.** and Johnson, R.: Mechanism of neuroinvasion of Venezuelan Equine Encephalitis Virus in the Mouse. *Virology* 208:662-671 (1995).

104. Rama Krishna, N.S., Getchell, M., Buiakova, O., **Margolis, FL** and Getchell, T.: Human olfactory receptor neurons contain OMP mRNA in their dendritic and axonal processes. *Neuroreport* 6: 817-821 (1995).
105. Wensley, C.E., Greer, C.A., Kauer, J.S., Hesketh, J.E., **Margolis, FL** and Chikaraishi, D.M.: Olfactory marker protein mRNA is found in axons of olfactory receptor neurons. *J. Neurosci.* 15:4827-4837 (1995).
106. Abogadie, F., Bruch, R., Wurzbürger, R., **Margolis, FL** and Farbman, A.: Molecular cloning of a phosphoinositide specific phospholipase-C from catfish olfactory rosettes. *Molec. Brain Res.*, 31:10-16 (1995).
107. Carney, M., O'Reilly, RC., Sholehvar, O., Buiakova, O., Lowry, LD., Keane, WM., **Margolis, FL** and Rothstein, J.L.: Expression of human achaete-scute 1 gene in olfactory neuroblastoma (ethesioneuroblastoma). *J. Neuro-Oncology*, 26: 35-43 (1995).
108. Holtmaat, AJGD., Dijkhuizen, PA., Oestreicher, AB., Romijn, HJ., Van der Lugt, NMT., Berns, A., **Margolis, FL.**, Gispén, WH. and Verhaagen, J.: Directed expression of the growth associated protein B-50/GAP-43 to olfactory neurons in transgenic mice results in changes in axon morphology and extraglomerular fiber growth. *J. Neurosci.* 15: 7953-7965 (1995).
109. Porta, AR. and **Margolis, FL**: Cloning of a cDNA encoding the S13 ribosomal protein from the catfish *Ictalurus punctatus*. *Gene* 163: 319-320 (1995)
110. Walters, E., Grillo, M., Tarozzo, G., Stein-Izsak, C., Corbin, J., Bocchiaro, C. and **Margolis, FL.**: Proximal regions of the olfactory marker protein gene promoter direct olfactory neuron-specific expression in transgenic mice. *J. Neurosci. Research*, 43: 146-160 (1996).
111. Treloar, H., Walters, E., **Margolis, FL** and Key, B.: Olfactory Glomeruli are Innervated by More Than One Distinct Subset of Primary Sensory Olfactory Neurons in Mice. *J. Comp. Neurol.* 36:550-562 (1996).
112. Buiakova, OI., Baker, H., Scott, JW., Farbman, A., Kream, R., Grillo, M., Franzen, L., Richman, M., Davis, LM., Abbondanzo, S., Stewart, CL. and **Margolis, FL.**: Olfactory Marker Protein (OMP) Gene Deletion Alters Physiological Activity Of Olfactory Neurons. *Proc. Nat. Acad. Sci.*, 93: 9858-9863 (1996).
113. Porta, AR., Bettini, E., Buiakova, OI., Baker, H., Danho, W. and **Margolis, FL.** Molecular cloning of Ictacalcin: a novel calcium binding protein from the channel catfish, *Ictalurus punctatus*. *Molec. Brain Res.* 41:81-89 (1996).
114. Walters, E., Oestreicher, AB. and **Margolis, FL.**: LacZ and OMP are co-expressed during ontogeny and regeneration in olfactory neurons of OMP-lacZ transgenic mice. *Int. J. Devel. Neurosci.* 14:813-822 (1996).
115. Kosaka, K., Toida, K., **Margolis, FL.**, and Kosaka, T.: Chemically defined neuron groups and their subpopulations in the glomerular layer of the rat olfactory bulb-II. *Neuroscience* 76:775-786 (1997).
116. Farbman, AI., Bucholz JA. Walters, E. and **Margolis, FL.**: Does olfactory marker protein participate in olfactory neurogenesis? *Ann. N.Y. Acad. Sci.* 855, 248-251 (1998).
117. Tarazzo, G, Capello P, DeAndrea M, Walters E, **Margolis FL**, Oestreicher AB, Fasolo A: Prenatal differentiation of mouse vomeronasal neurons. *Europ. J Neurosci* 10: 392-396 (1998)
118. Carr V McM, Walters E, **Margolis FL**, Farbman AI: An enhanced olfactory marker protein (OMP) immunoreactivity in individual olfactory receptor neurons following olfactory bulbectomy may be related to increased neurogenesis *J Neurobiology* 34: 377-390 (1998).
119. Sun, L., **Margolis, FL.**, Lidow, MS.: Identification of a long variant of mRNA encoding the RN3 subunit of the NMDA receptor: its regional distribution and developmental expression in the rat brain. *FEBS letters.* 441: 392-396 (1998).
120. Kudrycki KE, Buiakova O, Tarazzo G, Grillo M, Walters E, **Margolis FL.** Effects of mutation of the Olf-1 motif on transgene expression in olfactory receptor neurons. *J Neurosci Res.* 52: 159-172 (1998).

121. Nunzi, MG., Grillo, M., **Margolis, FL.** and Mugnaini, E.: Compartmental organization of Purkinje cells in the mature and developing mouse cerebellum as revealed by an olfactory marker protein-lacZ transgene. *J. Comp. Neurol.* 404: 97-113 (1999).
122. Youngentob, S and **Margolis F.L.:** OMP gene causes an elevation in behavioral threshold sensitivity. *Neuroreport* 10:15-19 (1999).
123. Baumeister H, Gronostajski, RM, Lyons, GE and **Margolis, FL** :Identification of NFI-binding sites and cloning of NFI-cDNAs suggest a regulatory role for NFI transcription factors in olfactory neuron gene expression. *Molec Brain Res.* 72, 65- (1999).
124. Smith, DM. and **Margolis, FL.:** Taste processing: Whetting our appetite. *Current Biology* 9:R453-455 (1999).
125. Baker H, Cummings DM, Munger SD, Margolis JW, Franzen L, Reed RR, and **Margolis FL** Biochemical and morphological consequences of targeted deletion of a cyclic nucleotide gated channel (OCNC1) in adult mice *J. Neurosci.*, 19:9313-9321 (1999).
126. Holtmatt, AJGD, Huizinga, CT, **Margolis, FL**, Gispén, WH, and Verhaagen, J Transgenic expression of B-50/GAP43 expression in mature olfactory neurons triggers downregulation of native B-50/GAP43 expression in immature olfactory neurons. *Molec. Brain Res.* 74:197-207 (1999).
127. Heilmann S.; Hummel T. ; **Margolis FL.** ; Kasper M.; Witt M. Immunohistochemical distribution of Galectin-1, Galectin-3, and Olfactory Marker Protein (OMP) in human olfactory epithelium. *Histochem. Cell Biol.* 113:241-245 (2000).
128. Cummings, DM., Emge DK., Small, SL. and **Margolis, FL:** The pattern of olfactory bulb re-innervation returns following recovery from reversible peripheral deafferentation. *J. Comp Neurol. J. Comp. Neurol.* 421: 362-373 (2000).
129. Griff, ER, Greer, CA, **Margolis FL**, Ennis M and Shipley, MT: Ultrastructural and conduction velocity in the olfactory marker protein-null mouse. *Molec. Brain Res.* 866: 227-236 (2000)
130. Behrens, M, Venkatraman, G, Gronostajski, RM, Reed, RR and **Margolis FL:** NF1 in the development of the olfactory neuroepithelium and the regulation of the olfactory marker protein (OMP) expression. *Eur. J. Neuroscience* 12:1372-1384 (2000).
131. Baldisseri, DM., Margolis, JW., Omotosho PA. and **Margolis FL.** Sequence-specific NMR resonance assignments of the backbone atoms for the olfactory marker protein, OMP. *J. Biomolecular NMR* 17:353-354 (2000).
132. DeMarchis, S, Modena, C, Peretto, P, Migheli, A, **Margolis, FL** and Fasolo, A: Carnosine- related dipeptides in neurons and glia. *Biochemistry (Moscow)* 65:824-833 (2000).
133. Ivic, L, Pyrski, M, Margolis, JW., Richards, LJ., Firestein S, and **Margolis FL** Adenoviral vector mediated rescue of the OMP-null mouse. *Nature Neuroscience* 3:1113-1120 (2000).
134. Pyrski M, Xu Z, Walters E, Gilbert DJ, Jenkins NJ, Copeland NJ, and **Margolis FL:** The *OMP-lacZ* transgene mimics the unusual expression pattern of *OR-Z6*, a new odorant receptor gene on mouse chromosome 6: implication for locus-dependent gene-expression. *J. Neurosci.* 2001: 21 4637-4648
135. Youngentob SL, **Margolis FL**, Youngentob LM OMP gene deletion results in an alteration in odorant quality perception. *Behav. Neurosci.* 115: 626-631(2001).
136. Ennis M., Zhou F-M, Ciombor K, Aroniadou-Anderjaska V, Hayar A, Borrelli E Zimmer, L.A., **Margolis F**, and Shipley MT. Dopamine D2 Receptor-Mediated Presynaptic Inhibition of Olfactory Nerve Terminals *J. Neurophysiol.* 86: 2986-2997(2001).
137. Baldisseri DM, Margolis JW, Weber DJ, Koo JH, **Margolis FL.** Olfactory marker protein (OMP) exhibits a beta-clam fold in solution. Implications for target peptide interaction and olfactory signal transduction. *J Molec Biol* 319:823-837 (2002).
138. Perretto, P Cummings, DM, Modena C, Behrens M, Venkatraman G, Fasolo A, **Margolis FL:** BMP mRNA and protein expression in the developing mouse olfactory system *J. Comp. Neurol.* 451:267-278 (2002)
139. Baker, H. and **Margolis FL.** Mechanisms of Differentiation and migration of olfactory progenitors: An overview. *ChemSenses* 27, 567 (2002).

140. Schulze DH, Pyrski M, Ruknudin A, Margolis JW, Polumuri SK, **Margolis FL**. Sodium-calcium exchangers in olfactory tissue. In Lytton J, Schnetkamp PPM, Hryshko LV and Blaustein MP (Editors) "Cellular and molecular physiology of sodium-calcium exchange" Ann. NY Acad. Sci. 976, 67-72 (2002).
141. Behrens, M, Margolis JW, and **Margolis FL**: Identification of members of the Bex gene family as olfactory marker protein (OMP) binding partners J Neurochem 86, 1289-1296 (2003).
142. McBride K, Slotnick B, **Margolis FL** Does Intranasal Application of Zinc Sulfate Produce Anosmia in the Mouse? An Olfactometric and Anatomical study. Chem Senses 28, 659-670 (2003).
143. Youngentob SL, P.F. Kent PF and **Margolis FL** OMP Gene Deletion Results in an Alteration in Odorant-Induced Mucosal Activity Patterns J. Neurophysiol. 90, 3864-3873.(2003)
144. Koo JH, Gill S, Pannell L, Menco B and **Margolis FL** The interaction of Bex and OMP reveals a metabolically active covalent dimer of OMP J. Neurochem. 90, 102-116 (2004).
145. Peretto P, Dati C, De Marchis S, Kim HH, Ukhanova M, Fasolo A, **Margolis FL** Expression of the secreted factors Noggin and bone morphogenetic proteins in the subependymal layer and olfactory bulb of the adult mouse brain Neurosci.128, 685-696 (2004)
146. Schulze DH, Pyrski M, Ruknudin A, Margolis JW, Polumuri SK, **Margolis FL**. Sodium-calcium exchangers in olfactory tissue. In Lytton J, Schnetkamp PPM, Hryshko LV and Blaustein MP (Editors) "Cellular and molecular physiology of sodium-calcium exchange" Ann. NY Acad. Sci. 976, 67-72 (2002).
147. Behrens, M, Margolis JW, and **Margolis FL**: Identification of members of the Bex gene family as olfactory marker protein (OMP) binding partners J Neurochem 86, 1289-1296 (2003).
148. McBride K, Slotnick B, **Margolis FL** Does Intranasal Application of Zinc Sulfate Produce Anosmia in the Mouse? An Olfactometric and Anatomical study. Chem Senses 28, 659-670 (2003).
149. Baker, H. and **Margolis F.L.** Mechanisms of Differentiation and migration of olfactory progenitors: An overview. ChemSenses 27, 567 (2002)
150. Schulze DH, Pyrski M, Ruknudin A, Margolis JW, Polumuri SK, **Margolis FL**. Sodium-calcium exchangers in olfactory tissue. In Lytton J, Schnetkamp PPM, Hryshko LV and Blaustein MP (Editors) "Cellular and molecular physiology of sodium-calcium exchange" Ann. NY Acad. Sci. 976, 67-72 (2002).
151. Youngentob SL, P.F. Kent PF and **Margolis FL** OMP Gene Deletion Results in an Alteration in Odorant-Induced Mucosal Activity Patterns J. Neurophysiol. 90, 3864-3873.(2003)
152. Koo JH, Gill S, Pannell L, Menco B and **Margolis FL** The interaction of Bex and OMP reveals a metabolically active covalent dimer of OMP J. Neurochem. 90, 102-116 (2004).
153. Youngentob S. Pyrski, M. and **Margolis FL**, Adenoviral vector-mediated rescue of the OMP-null behavioral phenotype: Enhancement of odorant threshold sensitivity Behav. Neurosci.118: 636-642(2004).
154. Peretto P, Dati C, De Marchis S, Kim HH, Ukhanova M, Fasolo A, **Margolis FL** Expression of the secreted factors Noggin and bone morphogenetic proteins in the subependymal layer and olfactory bulb of the adult mouse brain Neurosci.128, 685-696 (2004)
155. Gitti RK, Wright NT, Margolis JW, Varney KM, Weber DJ, **Margolis FL**. Backbone Dynamics of the Olfactory Marker Protein As Studied by (15)N NMR Relaxation Measurements. Biochemistry. 44:9673-9679 (2005).
156. Goldenberg-Cohen N, Guo Y, **Margolis, FL**, Cohen Y, Miller NR, and Bernstein SL. Oligodendrocyte dysfunction following induction of experimental anterior optic nerve ischemia Invest Ophthalmol Vis Sci 46.2716-25 (2005).

157. Venkatraman G, Behrens M, Pyrski M, and **Margolis FL** Expression of Coxsackie-Adenovirus receptor (CAR) in the developing mouse olfactory system. *J. Neurocytology* 34: 295-305 (2005).
158. Koo JH, Saraswati M, **Margolis FL**. Immunolocalization of Bex protein in the mouse brain and olfactory system. *J Comp Neurol.* 487:1-14 (2005).
159. Wright, NT, Margolis JW, **Margolis FL**, Weber D. Refinement of the solution structure of rat Olfactory Marker Protein (OMP) *Journal of Biomolecular NMR*33:63-68 (2005)
160. Bernstein SL Koo JH, Slater BJ, Guo Y and **Margolis FL**, Analysis of optic nerve stroke by retinal Bex expression. *Molecular Vision* 12:147-155 (2006)
161. Kim HH, Puche AC, and **Margolis FL**: Odorant deprivation reversibly modulates transsynaptic changes in the NR2B-mediated CREB pathway in mouse piriform cortex. *J. Neuroscience* 26, 9548-9559 (2006).
162. Koo JH, Smiley M, Lovering R and **Margolis FL**: Bex1 knock out mice show altered skeletal muscle regeneration *Biochem Biophys Res Comm* 363 pp 405-410 (2007)
163. Bettini E. and **Margolis FL**. Expression of an intron containing beta-tubulin mRNA in catfish olfactory epithelium *J. Molec Histol.* 38:571-579(2007).
164. Pyrski M, Koo JH, Polumuri S, Ruknudin A, Margolis JW, Schulze DH and **Margolis FL** Sodium-calcium exchanger expression in the mouse and rat olfactory systems *J Comp Neurol* 501:944-958 (2007).
165. Koo JH and **Margolis FL**: Bex1 knock out mice show altered skeletal muscle regeneration *Biochem Biophys Res Comm* 363 pp 405-410 (2007)
166. Reisert J, Yau KW **Margolis FL** Olfactory marker protein modulates the cAMP kinetics of the odour-induced response in cilia of mouse olfactory receptor neurons *J.Physiol* 585: 731-740 (2007).
167. Hamilton KA, Parrish-Aungst S., **Margolis FL**,; Erdelyi F, Szabo G, Puche AC. Sensory Deafferentation Transsynaptically Alters Neuronal GluR1 Expression in the External Plexiform Layer of the Adult Mouse Main Olfactory Bulb *Chemical Senses* 33: 201-210 (2008)
168. Cockerham RE, **Margolis FL** and Munger SD Afferent activity to necklace glomeruli is dependent on external stimuli *BMC Research Notes*, 2:31 (2008).
169. Reisert J and **Margolis FL** Olfactory marker protein: A gift to molecular biologists: An enigma to physiologists (2008) *Physiology News* 73: 27-29. (2008).
170. Kwon HJ, Koo JH, Zufall F, Leinders-Zufall T, **Margolis FL**. Ca Extrusion by NCX Is Compromised in Olfactory Sensory Neurons of OMP Mice. *PLoS ONE*. 2009;4(1):e4260. Epub 2009 Jan 23.
171. Bovolín, P., Bovetti, S., Fasolo, A., Shipley, M.T, Szabo, G. **Margolis, FL** and Puche, A.C. Developmental regulation of metabotropic glutamate receptor-1 splice variants in olfactory bulb mitral cells. *J. Neurosci Res* 87: 369-379 (2009)
172. Senut MC, Azher S, **Margolis FL**, Patel K, Mousa A, Majid A. Distribution of carnosine-like peptides in the nervous system of developing and adult zebrafish (*Danio rerio*) and embryonic effects of chronic carnosine exposure.. *Cell Tissue Res*.337: 45-61 (2009).
173. Khazaei MR, Halfter H, Karimzadeh F, Koo JH, **Margolis FL**, Young P. Bex1 is involved in the regeneration of axons after injury. *J Neurochem.* 2010 Nov;115(4):910-20. Article first published online: 28 Sept. 2010.
174. Vastagh C , Schwirtlich M, Kwakowsky A, Erdély F, **Margolis FL**, Yanagawa Y, Katarova Z, and Szabó G The spatio-temporal segregation of GAD forms defines distinct GABA signaling functions in the developing mouse *Dev Neurobiol.* 2014 Aug 14. doi: 10.1002/dneu.22222. [Epub ahead of print]

Additional peer reviewed publications from my laboratory:

1. Hirsch, J. D.: Opiate and muscarinic ligand binding in five limbic areas after bilateral olfactory bulbectomy. *Brain Res.* 198 : 171-283, 1980.
2. Hirsch, J. D.: **MINIREVIEW**—The neurochemical sequelae of olfactory bulbectomy. *Life Sci.* 26 : 1551-1559, 1980.
3. Hirsch, J. D.: Regional changes in [³H]diazepam binding in the brains of bilaterally olfactory bulbectomized mice. *Exp. Neurol.* 72 : 91-98, 1981.
4. Koo JH Bex1 participates in muscle regeneration by regulating myogenic satellite cell differentiation *Lab. Anim. Res.* 26, 145-151- (2010)

Book Chapters

1. Bondy, S. and **Margolis FL.**: The effect of visual deprivation on the developing avian optic lobe. In Pease D.C. (ed.) *Cellular aspects of Neural Growth and Differentiation. UCLA Forum in Medical Science 14:pp.361-364 (1971).*
2. Bondy, S. and **Margolis, FL.**: Sensory deprivation and brain development. The avian visual system as a model. in Bures, J. John E.R, Kostiuik P.G. and Pickenhain L. (eds.) *Brain and Behavior Research, Veb Gustav Fischer Verlag, Jena, Germany, GDR, 4:pp1-54 (1971)*
3. **Margolis, FL.**: Olfactory bulb specific protein. In Schneider, D. (eds.): *Proteins of the Nervous System*, Raven Press, New York, pp. 75-78 (1973).
4. **Margolis, FL.**: Biochemical markers of the primary olfactory pathway: A model neural system. In Agranoff, BW., and Aprison, MH. (eds.): *Advances in Neurochemistry.* Plenum Press, New York 1 : pp. 193-246 (1975).
5. **Margolis, FL.**, Keller, A. and Ferriero, D.: The olfactory pathway as a model cerebral system. In Berl, S., Clarke, D. D., and Schneider, D. (eds.): *Metabolic Compartmentation and Neurotransmission, Relation to Brain Structure and Function.* Plenum Press, New York 6 : pp. 137-143 (1975).
6. **Margolis, FL.**, Ferriero, D. and Harding, J.: Carnosine (b-alanyl-L-histidine) in the olfactory nerve: A putative transmitter candidate. In Tuomisto, J., and Paasonen, M. K. (eds.) *Proceedings of the Sixth International Congress of Pharmacology-Neurotransmission.* Finnish Pharmacological Society, 2 : pp. 61-69 (1975).
7. **Margolis, FL.**: Biochemical studies of the primary olfactory pathway. In Ferrendelli, J. A. (ed.): *Neuroscience Symposia, Vol. III, Aspects of Behavioral Neurobiology.* The Society for Neurosci., Bethesda, Maryland, pp. 167-188 (1977).
8. **Margolis, FL.**: A marker protein for the olfactory chemoreceptor neuron. In Bradshaw, RA. and Schneider, D. (eds.): *Proteins of the Nervous System.* Raven Press, New York, pp. 59-84 (1980).
9. **Margolis, FL.**: Carnosine: An olfactory neuropeptide. In Barker, JL. and Smith, T. (eds.): *Role of Peptides in Neuronal Function.* Marcel Dekker, Inc., New York, pp. 545-572 (1980)
10. **Margolis, FL.**: Neurotransmitter biochemistry of the mammalian olfactory bulb. In Cagan, RH. and Kare, MR. (eds.): *Biochemistry of Taste and Olfaction.* Academic Press, New York 17 : 369-394 (1981).
11. Hirsch, JD. and **Margolis, FL.**: Isolation, separation and analysis of cells from olfactory epithelium. In Cagan, RH. and Kare, M. R. (eds.): *Biochemistry of Taste and Olfaction.* Academic Press, New York 15 : pp. 311-332 (1981).
12. Hirsch, JD. and **Margolis, FL.**: Identification and characterization of a carnosine binding site. In Marangos, P.J., Campbell, I. and Cohen, RM. (eds.): *Brain Receptor Methodologies.* Academic Press, New York, part B, 59-75 (1984).
13. Getchell, TV., **Margolis, FL.** and Getchell, ML.: Perireceptor and receptor events in vertebrate olfaction. *Prog. Neurobiol.* 23 : 317-345 (1984).

14. **Margolis, FL.**, Kawano, T. and Grillo, M.: Ontogeny of carnosine, olfactory marker protein and neurotransmitter enzymes in olfactory bulb and mucosa of the rat. In Breipohl, W. (ed.): *Ontogeny of Olfaction*. Springer-Verlag Berlin Heidelberg New York, 107-116 (1986).
15. **Margolis, FL.**: Olfactory receptor neurons: specific gene expression and a hypothetical model for stimulus receptors. In Hudspeth, J. et al. (eds.) *Discussions in Neurosciences*. Foundation for the Study of the Nervous System, Vol. IV, No. 3, 47-52 (1987).
16. Hudspeth, AJ., Mac Leish, PR., **Margolis, F. L.** and Wiesel, TN. (eds.): *Discussions in Neurosciences*. Foundation for the Study of the Nervous System. Vol. IV, No. 3 (1987).
17. **Margolis, FL.**: Molecular cloning of olfactory specific gene products, in "Molecular Neurobiology of the Olfactory System. **Margolis, FL.** and Getchell, TV. (eds.). Plenum Press, New York , pp.237-265 (1988).
18. **Margolis, FL.** and Getchell, TV. (eds.): *Molecular Neurobiology of the Olfactory System*, Plenum Press, New York (1988).
19. Pickenhagen, W. and **Margolis, FL.**: Summation of Conference. In Brand, JG. et al (eds.) *Chemical Senses. Receptor Events and Transduction of Taste and Olfaction*, Vol. 1, 505-513 (1989).
20. Getchell, TV. and **Margolis, FL.**: The *Xenopus* oocyte as an *in vitro* translation and expression system for chemosensory — specific gene products. In Schild, D. (ed.). *Chemosensory Information Processing*. Springer-Verlag Berlin Heidelberg New York, 87-95 (1990).
21. **Margolis, FL.** and Getchell, TV.: Receptors: Current status and future directions. In Muller, P. and Lamparsky, D. (eds). *Perfumes: Art, Science and Technology*. Elsevier Applied Science Publishers, LTD, Essex, England, 481-498 (1991).
22. Rinchik, EM., Johnson, DK., **Margolis, FL.**, Jackson, IJ., Russell, LB. and Carpenter, DA.: Reverse genetics in the mouse and its application to the study of deafness. In Ruben, R.J., Van De Water, TR. and Steel, KP. (eds.): *Genetics of Hearing Impairment*. The New York Academy of Sciences 630 : 80-92 (1991).
23. **Margolis, FL.**, Verhaagen, J., Biffo, S., Huang, F. and Grillo, M.: Regulation of gene expression in the olfactory neuroepithelium: A neurogenetic matrix. In Gispen, WH. and Routtenberg, A. (eds.). *Protein Kinase C and its Brain Substrates: Progress in Brain Research*. Elsevier Science Publishers B.V. Amsterdam, Netherlands 89: 97-122 (1991).
24. **Margolis, FL.**: Plasticity of olfactory neuron phenotype: Cellular and molecular influences. In J. Pearl (ed.) *Development Growth and Senescence in the Chemical Senses*. NIH Publication No. 93-3483, 3 : 109-118 (1993).
25. **Margolis, FL.**, Kudrycki, K., Stein-Izsak, C., Grillo, M., Akesson, R.: From genotype to olfactory neuron phenotype: the role of the Olf-1-binding site. In D. Chadwick, J. Marsh, J. Goode (Eds.); **Margolis FL** (Chairman). *The Molecular Basis of Smell and Taste Transduction*. Ciba Foundation. John Wiley & Sons, Ltd., West Sussex, England, pp. 3-26 (1993).
26. Chadwick, D., Marsh, J., Goode, J. (Eds.); **Margolis, FL.** (Chairman): *The Molecular Basis of Smell and Taste Transduction*. Ciba Foundation. John Wiley & Sons, Ltd., West Sussex, England. (1993).
27. Rama Krishna, NS., Getchell, ML., **Margolis, FL.** and Getchell, TV. Differential Expression of Vomeronodulin mRNA in the Nasal Mucosa of Rats During Ontogeny. In K. Kurihara, N. Suzuki, H. Ogawa (Eds.) *Olfaction and Taste XI*, Springer-Verlag, Tokyo, pp. 145-149 (1994).
28. **Margolis FL** and Koo JH Olfactory marker protein (OMP) from PAGE band to structure and function: An overview. "Wako Jyunyaku Jiho" 74:9-12 (2006).

ABSTRACTS

1. **Margolis, FL:** Reduced d-aminolevulinatase activity in a mutant mouse anemia. *Fed. Proc.* 24 : 1883 (1965).
2. Roffi, J., **Margolis, FL** and Jost, A.: Regulation of adrenaline synthesis in foetal adrenals by corticosteroids. *Excerpta Medica (2nd Intl. Cong. of Hormonal Steroids)* 111 : 117 (1966).
3. **Margolis, FL:** Ontogeny of DNA and DNA-polymerase in embryonic chick brain regions. *Fed. Proc.* 27 : 1394 (1968).
4. Bondy, S. and **Margolis, FL:** Chick brain metabolism after removal of a single eye. *Trans. Amer. Soc. Neurochem.* 1 : 26 (1970).
5. Bondy, S. and **Margolis, FL:** Direct effects of sensory input on the cerebral genome. 8th Intl. Cong. of Biochem., Symposium VII D, September (1970).
6. **Margolis, FL:** A protein specific to the olfactory bulb. *Trans. Amer. Soc. Neurochem.* 2 : 95 (1971).
7. **Margolis, FL:** Search for S-100 protein variants in inbred strains and neurological mutants of the mouse. 3rd Intl. Cong. of Neurochem., July (1971).
8. **Margolis, FL**, Santic, I., and Tarnoff, J.: A brain protein unique to the olfactory bulb. *Fed. Proc.* 31 : 1549 (1972).
9. **Margolis, FL**, Santic, I., and Tarnoff, J.: Mouse brain olfactory bulb protein: Immunological studies. *Trans. Amer. Soc. Neurochem.* 3 : 103 (1972).
10. **Margolis, FL** and Tarnoff, J.: Mouse brain olfactory bulb protein: Site of synthesis. *Trans. Amer. Soc. Neurochem.* 4 : 11-15 (1973).
11. **Margolis, FL:** A brain protein unique to the olfactory pathway. 4th Intl. Mtg., Intl. Soc. Neurochem. Tokyo, Japan, pp. 70, August (1973).
12. **Margolis, FL**, Tarnoff, J. and Armona, D.: Carnosine: Is it a neurotransmitter in the olfactory pathway? *Trans. Amer. Soc. Neurochem.* 5 : 118 (1974).
13. **Margolis, FL**, Roberts, N., Feldman, J. and Ferriero, D.: Denervation of the primary olfactory pathway: Specific biochemical changes. *Soc. for Neurosci., Abstr.* (1974).
14. **Margolis, FL**, Keller, A., Ferriero, D. and Harding, J.: Proteins uniquely or predominantly associated with the primary olfactory pathway. *Trans. Amer. Soc. Neurochem.* 6 : 77 (1975).
15. **Margolis, FL**, Feldman, J., Ferriero, D., Roberts, N. and Keller, A.: Biochemical markers of the primary olfactory pathway. *ACS Symposium, Philadelphia, Pennsylvania, April (1975).*
16. Harding, J. and **Margolis, FL**, Enzymes of carnosine metabolism in the primary olfactory pathway of the mouse. *Fed. Proc.* 34 : 294 (1975).
17. **Margolis, FL** Ferriero, D. and Harding, J.: Carnosine (b-alanyl-L-histidine) in the olfactory nerve: A putative transmitter candidate. *Proceed. 6th Intl. Cong. Pharmacol., Helsinki, Finland, July 20-25 (1975).*
18. Harding, J., Graziadei, P. P. C. and **Margolis, FL:** Olfactory chemoreceptor cells: Heretical neurons? *Trans. Amer. Soc. Neurochem.* 7 : 180 (1976).
19. Neidle, A. and **Margolis, FL:** Carnosine turnover in olfactory bulb and other tissues of the mouse. *Trans. Amer. Soc. Neurochem.* 7 : 103 (1976).
20. Agrawal, H. C., Fujimoto, K., Shearer, W. T., Hartman, B. K., and **Margolis, FL:** Immunological specificity of rat brain myelin "Proteolipid Protein". *Trans. Amer. Soc. Neurochem.* 7 : 84 (1976).
21. **Margolis, FL** and Grillo, M.: Carnosine: Synthesis and axoplasmic transport in the olfactory pathway. *Trans. Amer. Soc. Neurochem.* 8 : 252 (1977).
22. Horinishi, H. and **Margolis, FL** Carnosine synthetase from mouse olfactory bulb. *Fed. Proc.* 36 : 719 (1977)
23. Brown, CE. , **Margolis, FL** Williams, T H., Pitcher, R. G. and Elgar, G.: Application of NMR to neurophysiology. 6th Intl. Symp. on Magnetic Resonance, Banff, Alberta, Canada, May (1977).

24. Hirsch, JD and **Margolis, FL**: Preparation and characterization of cells from rat olfactory mucosa. *Soc. Neurosci. Abstr.* 3 : 231 (1977).
25. Hirsch, JD and **Margolis, FL**: Carnosine and neurotransmitter binding sites in olfactory bulb membranes. *Trans. Amer. Soc. Neurochem.* 9 : 149 (1978).
26. Farbman, AI and **Margolis, FL**: Immunocytochemical studies of the olfactory marker protein in developing olfactory mucosa of mice and rats. *Anat. Rec.* 190 : 392 (1978).
27. **Margolis, FL** and Grillo, M.: An approach to chemical nerve section in the mouse olfactory pathway. *Soc. Neurosci. Abstr.* 4 : 254 (1978).
28. Nadi, NS, Hirsch, JD and **Margolis, FL**: Laminar distributions of amino compounds and [³H]ligand binding sites in the dog olfactory bulb. *Soc. Neurosci. Abstr.* 4 : 1426 (1978).
29. **Margolis, FL** and Grillo, M.: Carnosinase activity in olfactory mucosa and CNS: Two different proteins. *Trans. Amer. Soc. Neurochem.* 10 : 191 (1979).
30. Rochel, S. and **Margolis, FL**: The role of ornithine decarboxylase in neuronal regeneration in olfactory epithelium. 7th Intl. Mtg. of Neurochem., Jerusalem, Israel, September (1979).
31. Nadi, NS, Head, R. and **Margolis, FL**: Catecholamines in dog and mouse olfactory bulb: Laminar distribution and response to deafferentation. *Soc. Neurosci. Abstr.* 5 : 346 (1979).
32. Rochel, S. and **Margolis, FL**: Membrane potential of olfactory bulb synaptosomes monitored with the lipophilic cation tetraphenylphosphonium. *Soc. Neurosci. Abstr.* 5 : 745 (1979).
33. Youngs, WM., Nadi, NS., Davis, BJ., **Margolis, FL** and Macrides, F.: Evidence for a cholinergic projection to the olfactory bulb from the magnocellular preoptic area. *Soc. Neurosci. Abstr.* 5 : 135 (1979).
34. Nadi, NS., Head, R., Hempstead, J., Grillo, M. and **Margolis, FL**: Biochemical evidence for the transsynaptic regulation of catecholamine metabolism in the mammalian olfactory bulb. Satellite Symposium of the 7th Intl. Mtg. of Neurochem., Istanbul, Turkey, September (1979).
35. **Margolis, FL**, Grillo, M., Nadi, NS., Grannot-Reisfeld, N., Youngs, WM., Davis, BJ. and Macrides, F.: Central and peripheral regulation of catecholamine and tyrosine hydroxylase levels in the olfactory bulb. Intl. Symp. Biochem. of Taste and Olfaction, Philadelphia, April (1980).
36. Hirsch, J. D. and **Margolis, FL**: Neurochemical and pharmacological studies of the rat olfactory neuroepithelium: Analysis of cell suspensions and radioligand binding properties. Intl. Symp. Biochem. of Taste and Olfaction, Philadelphia, April (1980).
29. Farbman, A., Heller, R., Emanuel, D., Scholz, D. and **Margolis FL**: Maturation of Olfactory Receptor Cell Terminals. 7th Intl. Symp. of Olfaction and Taste, Holland, June (1980).
37. Burd, GD and **Margolis, FL**: Morphological effects of intranasal zinc sulfate irrigation on the mouse main and accessory olfactory systems. 2nd Ann. Mtg. Amer. Assoc. Chemorecep. Sci. Sarasota, Florida, July (1980).
38. Burd, GD, Davis, BJ., Macrides, F. and **Margolis, FL**: Distribution of label in the hamster main and accessory olfactory bulb after intranasal administration of [³-H]b-alanine. *Soc. Neurosci. Abstr.* 6 : 243 (1980).
39. Rochel, S., Blume, AJ. and **Margolis, FL**: On the use of the lipophilic cation tetraphenylphosphonium (TPP⁺) as a monitor of membrane potential in mitochondria containing particles. *Soc. Neurosci. Abstr.* 6 : 197 (1980).
40. Rochel, S. and **Margolis, FL**: Calcium-dependent depolarization-stimulated carnosine release from olfactory bulb synaptosomes supports its neuroeffector role. *Fed. Proc.* 40: 272 (1981).
41. **Margolis, FL**: Neurotransmission in the olfactory pathway. 12th Ann. Meeting, Richmond Virginia, *Trans. Amer. Soc. Neurochem.* 12 : 94 (1981).
42. Chuah, M-I., Farbman, AI. and **Margolis, FL**: Olfactory marker protein synthesis in organ culture of fetal rat olfactory mucosa. *Anat. Rec.* 199 : 52A (1981).

43. **Margolis, FL**, Kawano, T., Baker, H., Joh, T.: Afferent regulations of tyrosine hydroxylase and dopamine levels in the olfactory bulb. Eighth Intl. Soc. For Neurochem., Nottingham, England, September (1981).
44. Kawano, T., Baker, H., **Margolis, FL** and Joh, TH.: Transsynaptic regulation of tyrosine hydroxylase and dopamine synthesis in the olfactory bulb. Soc. Neurosci. Abstr. 7 : 66 (1981).
45. Kream, R. and **Margolis, FL**: Olfactory marker protein (OMP): Turnover & Transport. Trans. Am. Soc. Neurochem. 13 : 315 (1982).
46. Davis, BJ., Macrides, F., Kream, R., Kawano, T. and **Margolis, FL**: Transneuronal control of Substance-P and DA in hamster main olfactory bulb. 4th Ann. Mtg., Assoc. Chemorecep. Sci., Sarasota, Florida, April 14-18 (1982).
47. Farbman, Al. and **Margolis, FL**: Immunohistochemical localization of carnosinase in olfactory and other tissues in the mouse. Anat. Rec. 202 : 53A (1982).
48. Kream, RM. and **Margolis, FL**: Dynamics of olfactory marker protein (OMP) turnover and transport in mice. Soc. Neurosci. Abstr. 8 : 199 (1982).
49. **Margolis, FL**, Baker, H., Kawano, T., Albert, V. and Joh, TH.: Do juxtglomerular cells die after peripheral deafferentation of the rat olfactory bulb? Soc. Neurosci. Abstr. 8 : 743 (1982).
50. Kawano, T., Grillo, M., **Margolis, FL** and Farbman, Al.: Exogenous b-alanine elevates olfactory tissue carnosine levels *in vivo* and *in vitro*. Soc. for Neurosci. Abstr. 8 : 199 (1982).
51. **Margolis, FL**, Kream, R., Kawano, T., Davis, B. and Macrides, F.: Transneuronal control of Substance-P and DA in hamster main olfactory bulb. Trans. Amer. Soc. Neurochem. 14 : 312 (1983).
52. Grillo, M. and **Margolis, FL** : Rabbit muscle carnosine synthetase: Purification and generation of mouse antisera. Soc. for Neurosci. Abstr. 9 : 1134 (1983).
53. Sydor, W., Teitelbaum, Z., Blacher, R., Leung, W., Pan, Y-C. E., Brink, L. and **Margolis FL**: Olfactory marker protein: Studies of structure and primary sequence. Soc. for Neurosci. Abstr. 9 : 1020 (1983).
54. **Margolis, FL**, Rogers, K., Sydor, W., Teitelbaum, Z., Grillo, M., Sun, S., Blacher, R. and Gubler, U.: Olfactory marker protein (OMP): amino acid sequence, *in vitro* translation and approaches to c-DNA cloning. ECRO VI Cong., Villeurbanne, France, September (1984).
55. Rogers, K., Grillo, M., Gubler, U. and **Margolis, FL**: Olfactory Marker Protein: *In vitro* translation from poly(A)⁺mRNA. Fed. Proc. 43 : 1548 (1984).
56. Rogers, K., Grillo, M., Sydor, W., Gubler, U. and **Margolis, FL**: Poly(A)⁺messenger RNA for rat olfactory marker protein is extremely large. Soc. Neurosci. Abstr. 10 : 357 (1984).
57. Baker, H. and **Margolis, FL**: Strain differences in expression of the dopamine phenotype in normal and deafferented olfactory bulb. AChemS VII Abstr. (1985).
58. **Margolis, FL**, Rogers, K., Grillo, M., Goodall, Y. S., Poonian, M. and Gubler, U.: Molecular biology of the olfactory system. AChemS VII; Chem. Senses, Abstr. 10 : 391 (1985).
59. Rogers, KE., Grillo, M., Poonian, M., Gubler, U. and **Margolis, FL**: Molecular cloning of an olfactory neuron specific protein. Soc. Neurosci. Abstr., 11 : 1096 (1985).
60. **Margolis, FL**: Differential gene expression in olfactory pathway. NATO Adv. Res. Workshop; Warwick, U.K., August (1985).
61. Rogers, KE., Dasgupta, P., Grillo, M., Gubler, U. and **Margolis, FL**: Molecular cloning and sequencing of the cDNA for an olfactory neuron specific protein: OMP. Soc. Neurosci. Abstr. 12 : 1457 (1986).
62. Baker, H., Towle, A. and **Margolis, FL**: Differential influence of peripheral deafferentation on expression of GABA and dopamine in juxtglomerular neurons of mouse main olfactory bulb. Soc. Neurosci. Abstr. 12 : 1180 (1986).

63. Khew-Goodall, Y.-S., Goren, T., Grillo, M. and **Margolis, FL**: Identification and cloning of olfactory specific mRNAs. *J. Neurochem.* **48** : S144B (1987).
64. Wurzburger, R.J., **Margolis, FL**, Spector, S.: Choline acetyltransferase (CAT) and acetylcholine (ACh) in the mouse olfactory bulb and brain: effects of intranasal drug administration. *The Pharmacologist* **29** : 181 (1987).
65. Baker, H. and **Margolis, FL**: Olfactory marker protein (OMP)-like immunoreactivity in discrete nuclei of rodent brain. *Soc. Neurosci. Abstr.*, **13** : 363 (1987).
66. Rogers, K. and **Margolis, FL**: Neuron specific olfactory marker protein: Gene structure studies. *Soc. Neurosci. Abstr.*, **13** : 858 (1987).
67. Ehrlich, ME., Joh, TH., **Margolis, F** and Baker, H.: Transneuronal regulation of tyrosine hydroxylase mRNA expression in the rodent main olfactory bulb. *Soc. Neurosci. Abstr.*, **13** : 1089 (1987).
68. Verhaagen, J., Oestreicher, A. B., Gispen, W. H. and **Margolis, FL**: B-50 expression in the basal cell layer of the mature olfactory epithelium. *Trans. Am. Soc. Neurochem.*, (1988).
69. **Margolis, FL**, Verhaagen, J., Oestreicher, AB., and Gispen, WH.: Growth associated protein (B50/GAP43) expression in the developing olfactory neuroepithelium. The Tenth Annual Meeting of the Association for Chemoreception Sciences. *Abstr.* **148**: (1988).
70. Baker, H., Grillo, M., and **Margolis, FL**: Olfactory marker protein (OMP) expression in hamster CNS: Biochemical and immunocytochemical characterizations. The Tenth Annual Meeting of the Association for Chemoreception Sciences. *Abstr.* **150** (1988).
71. Verhaagen, J., Oestreicher, AB., Gispen, WH., and **Margolis, FL**: Expression in the basal cell layer of the mature olfactory epithelium. The first Annual Conference of the New Jersey Chapter of the Association for Neuroscience (April 8, 1988).
72. Mettling C., Morris, R.J., Raisman, G., Vidal, M., Spanopoulou, E., Watson, F., Grosveld, F., and **Margolis, FL**: Functional effects of modification of Thy-1 expression in transgenic mice. European Neuroscience Association (September, 1988).
73. Verhaagen, J., Oestreicher, AB., Grillo, M., Nielander H., Schotman, P., Gispen, WH., and **Margolis, FL**: B50/GAP43 in the regenerating primary olfactory pathway. *Soc. Neurosci. Abstr.* **14** : 802 (1988).
74. Verhaagen, J., Oestreicher, AB., Grillo, M., Nielander, H., Schotman, P., Gispen, WH. and **Margolis, FL**: B50/GAP43 expression in the regenerating primary olfactory pathway. Society for Developmental Biology Meeting *Abstr.* (1988).
75. Danciger, E. and **Margolis, FL**: The olfactory marker protein gene is non-classical. *Soc. Neurosci. Abstr.* **14** : 624 (1988).
76. Biffo, S. and **Margolis, FL**: Carnosine and anserine localization in nerve and muscle of rodents and birds. *Soc. Neuroscience Abstr.* **14** : 985 (1988).
77. Morris, R.J., Mettling, C., Raisman, G., Vidal, M., Grosveld, F. and **Margolis, FL**: Assessment of the biological role of Thy-1 by modification of its expression and structure in transgenic mice. *Soc. Neurosci. Abstr.* **14** : 1266 (1988).
78. **Margolis, FL**, Danciger, E., Mettling C., Vidal, M., Morris, R.J.: The Functional OMP gene lacks introns and traditional promoter boxes. *Proceedings of the 12th Annual Mtg. of the European Neurosci. Assoc.*, *Abstr.* (1989).
79. Verhaagen, J., Oestreicher, AB., Grillo, M., Khew-Goodall, Y.-S., Gispen, WH. and **Margolis, FL**: Neuroplasticity in the olfactory system: response of B50/GAP43 and olfactory marker protein to lesion. *Proceedings of the 12th Annual Mtg. of the European Neurosci. Assoc.*, *Abstr.* (1989).
80. Biffo, S., Verhaagen, J., Schrama, LH., Schotman, P., Danho, W., and **Margolis, FL**: B50 expression during neural differentiation of the developing mouse embryo correlates with fiber outgrowth. *Proceedings of the 12th International Annual Mtg. of the European Neurosci. Assoc.* *Abstr.* (1989).
81. Mulatero, D., Biffo, S., Artero, C., **Margolis, FL** and Fasolo, A.: Carnosine-like immunoreactivity in the brain of amphibia urodela. *Proceedings of the 12th Annual Mtg. of the European Neurosci. Assoc.* *Abstr.* (1989).

82. **Margolis, FL** and Verhaagen, J.: Can the regenerating olfactory neuroepithelium serve as a model to study molecular events in neural development? Proceedings of the International Society for Developmental Neuroscience China Symposium Abstr. (1989).
83. Getchell, TV., Grillo, M., Tate, S., Urade, R., Teeter, J. and **Margolis, FL**: Expression of amino acid taste receptors in *Xenopus* oocytes. Soc. Neuroscience, Abstr. 15 : 1146 (1989).
84. Verhaagen, J., Oestreicher, A. B., Grillo, M., Khew-Goodall, Y.S., Gispen, WH. and **Margolis, FL**: Differential post-lesion expression of B-50/GAP43 and olfactory marker protein in the olfactory system. Soc. Neuroscience, Abstr. 15 : 318 (1989).
85. Biffo, S., Verhaagen, J. Schrama, LH., Schotman, P., Danho, W. and **Margolis, FL**: B-50/GAP43 expression and neuritogenesis begin simultaneously in the embryonic mouse nervous system. Soc. Neuroscience, Abstr. 15 : 1328 (1989).
86. Fasolo, A., Biffo, S., Artero, C., Cantino, D. and **Margolis, FL**: Carnosine-like immunoreactivity in the retina of amphibia. Soc. Neurosci., Abstr. 15 : 374 (1989).
87. Biffo, S., Goren, T., Miara-Donnerer, M., Khew-Goodall, Y-S. and **Margolis, FL**: Calmodulin m-RNA in the olfactory neuroepithelium is associated with both mature and immature receptor neurons. Proceedings of the European Journal of Cell Biology, Ital. Assoc. Cell Biology and Differentiation Soc., Abstr. Supplement 28, Vol. 49 (1989).
88. Stone, DM., **Margolis, FL.**, Grillo, M., Baker, H. and Joh, TH.: Differential transneuronal regulation of glutamic acid decarboxylase & tyrosine hydroxylase mRNA levels in deafferented mouse olfactory bulb. Proceedings of the XIth International Congress of Pharmacology (IUPHAR) Abstr. (1990).
89. Stein-Izsak, C., Grillo, M. and **Margolis, FL.**: Olfactory marker protein gene flanking sequences involved in DNA-protein interactions. Soc. for Neurosci. Abstr. 16 : 158 (1990).
90. Verhaagen, J., Greer, CA. and **Margolis, FL.**: B-50/GAP43 gene expression in the developing and aging rat olfactory system. Soc. for Neurosci. Abstr. 16 : 657 (1990).
91. Stone, DM., Grillo, M., **Margolis, FL**, Baker, H. and Joh, TH.: Differential regulation of glutamic acid decarboxylase (GAD) and tyrosine hydroxylase (TH) mRNA levels in functionally-deafferented rodent olfactory bulb. Soc. Neurosci. Abstr. 16 : 994 (1990).
92. **Margolis, FL.**: Regulation of cell specific gene expression in the olfactory neuron: cellular and molecular aspects. Neurosci. Letters 39 : 139 (1990).
93. Verhaagen, J., Biffo, S., **Margolis, FL** and Gispen, WH.: Molecular biology of neurite outgrowth: B-50/GAP43 expression is widespread during neuroembryogenesis and persists in subsets of neurons during aging. Proceedings of the Society of Developmental Neurobiology Abstr. (1990).
94. **Margolis, FL.**, Verhaagen, J., Biffo, S., Grillo, M. and Greer, C.: Regulation of gene expression in the olfactory neuroepithelium: A neurogenetic matrix. Proceedings of the Third International Workshop on "Brain Phosphoproteins" Abstr. (1990).
95. Artero, C., Marti, E., Panzanelli, P., Sassoe Pognetto, M., Biffo, S., **Margolis, FL** and Fasolo, A.: Carnosine-like immunoreactivity in the nervous system of reptiles is localized in glial cells and olfactory neurons. Proceedings of the European Neuroscience Meeting, Abstr. (1991).
96. Sassoé-Pognetto, M., Panzanelli, P., Cantino, D., **Margolis, FL** and Fasolo, A.: Carnosine: Fine structural localization in photoreceptors in the frog retina. Proceedings of the European Neuroscience Meeting Abstr. (1991).
97. Dahmen, N., Wang, H. and **Margolis, F.L**: Expression of olfactory receptors in *Xenopus Laevis* oocytes. Proceedings of the Third IBRO World Congress of Neurosci., Abstr. 61 : 390 (1991).
98. Stein-Izsak, C., Corbin, J., Grillo, M., Behn, C. Sakai, M. and **Margolis, FL.**: Is transcriptional regulation a mechanism of cell specific gene expression in olfactory neurons? Proceedings of the 15th International Congress of Biochemistry Abstr. (1991).
99. Dahmen, N., Wang, H., Getchell, TV., **Margolis, FL.**: Expression of rat olfactory receptors in *Xenopus* oocytes. Proceedings of Soc. Neurosci. Abstr. 17 : 634 (1991).

100. Wang, H., Dahmen, N., Kodukula, K., Yan, N., Teeter, J. and **Margolis, FL.**: Expression of catfish L-amino acid olfactory receptors in *Xenopus* oocytes injected with in vitro transcribed RNA. *Proceedings of Soc. Neurosci. Abstr.* 17 : 634 (1991).
101. Grillo, M., Khew-Goodall, Y-S., Getchell, M., Danho, W., Getchell, T. and **Margolis, FL.**: Vomeronodulin, a novel glycoprotein of lateral nasal gland: A putative pheromone transporter. *Proceedings of Soc. Neurosci. Abstr.* 17 : 633 (1991).
102. Wensley, CH., Kauer, JS., **Margolis, FL.** and Chikaraishi, DM.: OMP mRNA is transported to the axon terminals of olfactory receptor cells. *Proceedings of Soc. Neurosci. Abstr.* 17 : 637 (1991).
103. Stein-Izsak, C., Grillo, M., Behn, C., Sakai, M., Corbin, J. and **Margolis, FL.**: Transacting elements and olfactory neuron gene transcription. *Proceedings of Soc. Neurosci. Abstr.* 17 : 1286 (1991).
104. Verhaagen, J., Plaizier, JJ., van Roon, JAG., Oberdick, J., Morgan, JI., Fross-Petter, S. and **Margolis, FL.**: Neuron-specific promoter constructs for overexpression of B-50 (GAP43) in transgenic mice. *Proceedings of Soc. Neurosci. Abstr.* 17 : 1309 (1991).
105. Sakai, M., Stein-Izsak, C., Corbin, J., Grillo, M., Behn, C. and **Margolis, FL.**: Transgenic analysis of olfactory neuron gene promoter. *Proceeding of 15th Japanese Neuroscience Society Meeting* (1991).
106. Margolis, FL., Stein-Izsak, C., Kudrycki, K., Grillo, M., Behn, C., Sakai, M. and Corbin, J.: OLF-1: An olfactory specific DNA binding protein. *Proceedings of the 14 Annual Meeting Association for Chemoreception Sciences (AChemS XIV)* (1992).
107. **Margolis, F.L.**: Regulation of Olfactory Neuron Gene Expression. *Proceedings of the 1992 World Congress on Cell and Tissue Culture Symposium/Session in Depth Signal Transduction in Olfactory Receptors* (1992).
108. Bettini, E., Dahmen, N., Wang, HL. and **Margolis, FL.**: Molecular cloning of putative olfactory specific genes from catfish. *Proceedings of Soc. Neurosci. Abstr.* 18 : 1196 (1992).
109. Grillo, M., Morris, R., Akeson, R., Sakai, M., Smeyne, R., Stein-Izsak, C., Bocchiaro, C., Corbin, J., Phillips, A. and **Margolis, FL.**: Transgenic analysis of OMP promoter using two reporter genes. *Proceedings of Soc. Neurosci. Abstr.* 18 : 241 (1992).
110. Kudrycki, K., Behn, C., Stein-Izsak, C. and **Margolis, FL.**: Identification of putative transcriptional regulatory elements in the olfactory marker protein (OMP) promoter. *Proceedings of Soc. Neurosci. Abstr.* 18 : 238 (1992).
111. **Margolis, FL.**: Regulation of olfactory neuron gene expression. *In Vitro* 28 : 3 (1992).
112. Rama Krishna, N.S., Getchell, M.L., Margolis, F.L. and Getchell, T.V.: Vomeronodulin Gene Expression in the Nasal Mucosa of Rats During Postnatal Development. *AChemS XV* (1993).
113. Getchell, TV., Rama Krishna, NS., Getchell, ML. and **Margolis, FL.**: Differential expression of vomeronodulin mRNA in the nasal mucosa of rats during ontogeny. *ISOT, Japan* (1993).
114. Kudrycki, K., Stein-Izsak, C., Behn, C. and **Margolis, FL.**: Olf-1 binding site: characterization of an olfactory specific promoter motif. *ISOT, Japan* (1993).
115. Rama Krishna, NS., Getchell, ML., **Margolis, FL.** and Getchell, TV.: Differential expression of vomeronasal mRNA in the nasal mucosa of rats during ontogeny. *ISOT, Japan, July 12-16, 1993, Abstract.*
116. Sassoè, P., Cantino, D., Panzanelli, P., Verdum di Cantogno, L., Giustetto, M., **Margolis, FL.**, De Biasi, S. and Fasolo, A.: Carnosine and glutamate in olfactory neurons. *Proceedings of Soc. Neurosci. Abstr.* 19 : 123 (1993).
117. Buiakova, O., Rama Krishna, NS., Baumeister, H., Getchell, ML., Getchell, TV. and **Margolis, FL.**: Human OMP gene: cloning and *in situ* localization. *Proceedings of Soc. Neurosci. Abstr.* 19 : 1121 (1993).
118. Walters, E., Grillo, M., Kudrycki, K., Bocchiaro, C., Phillips, A. and **Margolis, FL.**: Transgenic analysis of the OMP promoter. *Proceedings of Soc. Neurosci. Abstr.* 19 : 1121 (1993).

119. Rama Krishna, NS., Getchell, ML., **Margolis, FL.** and Getchell, TV.: Differential expression of vomeronasal mRNA in the nasal mucosa of rats during ontogeny. ISOT, Japan, July 12-16, 1993.
120. Holtmaat, AJGD., van der Lugt, N., Bernd, ATM., Verbeek, SJ., **Margolis, FL.**, Oberdick, J., Oestreicher, AB., Gispén, WH. and Verhaagen, J. Directed expression of B-50 (GAP-43) to cerebellar Purkinje cells and mature olfactory neurons in transgenic mice., ASN Meeting, Albuquerque, NM, March 1994.
121. Abogadie, F., Bruch, RC., Farbman, Al., Wurzbürger, R. and **Margolis, FL.** Phospholipase C gene expression in Rat Olfactory Epithelium. AChemS XVI, Sarasota, FL, April 1994.
122. Walters, E., Tarozzo, G., Phillips, A., Grillo, M. and **Margolis, FL.** Transgenic Analysis of the OMP Promoter Illustrates Differential lacZ Expression in Discrete Subsets of Olfactory Neurons. AChemS XVI, Sarasota, FL, April 1994.
123. **Margolis, FL.**, Buiakova, O., and Baumeister H. OMP Gene: Phylogenetic Conservation of Regulatory Motifs and Cellular Expression. Frontier Meeting on Human Olfaction & Audition Abstr., The Wellcome Trust, London, U.K., May 1994.
124. **Margolis, FL.**, Walters, E., Tarozzo, G., Phillips, A. and Grillo, M. Transgenic analysis of the OMP promoter illustrates differential lacZ expression in discrete subsets of olfactory neurons, Gordon Research Conference on "Chemical Senses: Taste & Smell," Plymouth, NH, July 1994.
125. Baumeister, H., Gronostajski, RM. and **Margolis, FL.** Characterization of NFI transcription factors within the olfactory neuroepithelium. American Society of Cell Biology, San Francisco, CA, December 1994.
126. Kudrycki, K., Tarozzo, G., Buiakova, O., Grillo, M., Phillips, A. and **Margolis, FL.** Transcriptional regulation of the olfactory marker protein: OLF-1 and SP1. American Society of Cell Biology, San Francisco, CA, December 1994.
127. Carney, M., O'Reilly, C., Sholevhar, B., Lowry, LD., Keane, WM., Buiakova, O., **Margolis, FL.** and Rothstein, JL.: Molecular Markers in Ethesioneuroblastoma, American Assn. for Cancer Research Annual Meeting, April 1994.
128. Holtmaat, AJGD, van der Lugt, N., Berns, ATM, Verbeek, SJ, **Margolis, FL.**, Oberdick, J., Oestreicher, AB, Gispén, WH and Verhaagen, J. Directed expression of B-50 (GAP-43) to cerebellar purkinje cells and mature olfactory neurons in transgenic mice. Society for Neuroscience, 20, 1994.
129. Treloar, HB, Walters, E., **Margolis, FL.** and Key, B. Distinct subsets of olfactory neurons are identified by differential lectin staining and lac Z expression in OMP-lacZ transgenic mice. Australian Society of Neuroscience, Melbourne 1994.
130. Buiakova, O., Baker, H., Stewart, C., Abbondanzo. S., Franzen, L. and **Margolis, FL.** Olfactory marker protein (OMP) null mice: Generation and characterization. AChemS XVII, Sarasota, FL, April 1994
131. Walters, E., Treloar, HB Key, B. and **Margolis, FL.** OMP-lacZ transgenic mice express lacZ and DBA binding sites in distinct subpopulations of olfactory neurons. AChemS XVII, Sarasota, FL, April 1995.
132. Holtmaat, AJGD., Dijkhuizen, PA., van der Lugt, N., Berns, ATM., Oestreicher, AB., **Margolis, FL.**, Gispén, WH., Verhaagen, J. Expression of B-50/GAP-43 in adult olfactory neurons in transgenic mice results in morphological changes in their projections in the olfactory bulb. European Neuroscience Association Meeting, Amsterdam, The Netherlands, 1995.
133. Tarozzo, G., Walters, E., **Margolis, FL.** and Fasolo, A. Analysis and characterization of migratory cells in the olfactory system of transgenic mice during embryonic development. XXIV Colloquium of the Society of Experimental Neuroendocrinology, Quebec, Canada, Sept. 1995.
134. Nunzi MG, **Margolis FL** and Mugnaini E. Cerebellar compartments in transgenic mice expressing an olfactory marker protein-LacZ fusion gene. Society for Neuroscience 21. 1995.

135. Buiakova, O, Baker H, Stewart C, Scott J, Kream R, Abbondanzo S, Franzen L, Davis L, Grillo M, and **Margolis FL**. Deletion of the olfactory marker protein gene alters physiological activity of olfactory receptor neurons. Society for Neuroscience 21. 1995.
136. Mugnaini E, Stein-Izsak C, **Margolis FL** and Nunzi MG. Expression of an olfactory marker protein-LacZ construct marks granule cells in cerebellar cortex and cochlear nuclear complex. Society for Neuroscience 21 . 1995.
137. Baker H, Franzen L, Grillo M, and **Margolis FL**. Altered plasticity of tyrosine hydroxylase expression in olfactory bulb of old mice. Society for Neuroscience 21. 1995.
138. Getchell, TV., Rama Krishna, NS., Buiakova, OJ., **Margolis, FL**. and Getchell, ML. Distribution of OMP mRNA in the ciliary-dendritic, somal and axonal compartments of human olfactory neurons. Society for Neuroscience 21. 1995.
139. Pyrski M., Kohout, T., Rogers T., Farbman, A.I., **Margolis, FL**.: Adenovirus-mediated gene transfer in olfactory receptor neurons. Soc. for Neurosci 22 653 (1996).
140. **Margolis, FL**, Baker H, Ivic L, Beinfeld M, Kream R, Firestein S, Buiakova O: Influence of genetic background on phenotype of mice with and olfactory marker protein (OMP) gene deletion Chem Senses 22, 741 (1997).
141. Farbman, AI, Buchholz, JA, **Margolis FL**. Does olfactory marker protein participate in olfactory neurogenesis? Chem Senses 22, 679 (1997).
142. Solodkin A, **Margolis FL**, Davis BJ, Shipley MT: Dopamine transporter immunocytochemistry in the main olfactory bulb: A comparative study in four species. Soc for Neurosci. 23, 1997
143. Greer CA, Kafitz KW, **Margolis FL**: Immunocytochemical localization of ribosomes with Y10B in the early postnatal and adult rat olfactory bulb. Soc for Neurosci 23, 1997
144. Behrens M, Venkatraman G, Tsai R Y-L, Wang S, Reed RR, **Margolis FL**: Functional analysis of the UBE/NFI binding site in the OMP promoter by transient transfection. Molec Biol Cell 8 (suppl) 1829 (1997)
145. **Margolis FL**, Baldisseri DM, Mack J, Wang AH-J, Lewis M, Powell D, Weber D.: Initial high resolution structural analyses of olfactory marker protein. Molec Biol Cell 8 (suppl) 569 (1997)
146. Kafitz KW, **Margolis FL**, and Greer CA (1998): Ribosomes are rarely found in olfactory receptor cell axons or terminals. In: Proceedings of the 26th Göttingen Neurobiology Conference. (eds. Elsner N. & Wehner R.) Vol. II,357.
147. Pyrski MM, Xu Z, Moussavi S, Walters E, **Margolis FL**: Characterization of the expression pattern of the newly identified odorant receptor gene OR-Z6. AChemS1998
148. Griff ER, **Margolis FL**, Ennis M & Shipley MT: Conduction Velocity of Olfactory Receptor Neurons in the OMP-Null Mutant Mouse. AChemS 98.
149. Baker H, Cummings DM, Franzen L, Munger SD, Reed RR, **Margolis FL**: Adult olfactory cyclic nucleotide-gated channel-1 (OCNC-1) deficient mice display altered biochemistry and morphology in olfactory bulb. AChemS 98
150. Youngentob SL, **Margolis FL** OMP: Gene Deletion Causes an Elevation in Behavioral Threshold Sensitivity. AChemS 98
151. Cummings DM, **Margolis FL**: Patterns of olfactory receptor neuron projections are similar during development and after recovery from peripheral deafferentation. AChemS 98
152. Lancaster, E., Puche, AC, Pyrski, M, **Margolis, FL**, Zufall, F, Shipley, MT, Keller, A, Functional imaging of mammalian receptor neurons in vitro. AChemS XX 98.
153. Lancaster, E., Puche, AC, Leinders-Zufall, T, Pyrski, M, **Margolis, FL**, Keller, A, Shipley, MT, Zufall, F, Calcium imaging of mouse olfactory receptor neurons in situ Soc Neurosci. 1998.
154. **Margolis, FL** and Cummings DM Patterns of glomerular innervation are reconstituted after ORN lesion: Studies with transgenic mice ECRO XVII 1998
155. Cummings DM, Tarazzo G and **Margolis FL**: Prenatal development of a subset of olfactory receptor neurons (ORNs):cell migration and process outgrowth. Soc Neurosci 24:1279 (1998).
156. Ivic L, **Margolis FL** and Firestein S: Electrophysiological responses of isolated olfactory neurons (ORNs) from OMP-null mice. Soc Neurosci 24:2099 (1998).

157. Kostich, WA, Neal, RG, Dinchuk, JE, Focht, RJ, **Margolis FL** and Largent BL: Generation of transgenic mice with expression of the ecdysone inducible system in the central nervous system. Soc Neurosci. 24,71 (1998).
158. Baker H, Cummings DM, Margolis JM, Franzen L, Munger SD, Reed RR and **Margolis FL**: Biochemical and morphological consequences of targeted deletion of a cyclic nucleotide gated channel (α CNC1). Soc Neurosci 24:808, (1998)
159. **Margolis FL** and Cummings DM :Patterns of glomerular innervation are reconstituted after ORN lesion :Studies with transgenic mice ECRO XIII Abstract 9 (1998).
160. Venkatraman G, Behrens M, Pyrski M and **Margolis FL** :Adenoviral infection in the olfactory system of mice: Mediated by mCAR or alpha-v integrin? Molec Biol Cell Suppl 9:1716 (1998).
161. Behrens M, Venkatraman G, Gronostajski R, Reed RR and **Margolis FL**: Expression NFI subtypes during the development of the olfactory epithelium of mouse: Implications for the regulation of the olfactory marker protein (OMP) gene. Molec Biol Cell Suppl 9:1838 (1998).
162. Puche, AC, Munger, SD, **Margolis, FL** and Shipley MT Olfactory receptor neuronal activity determines mitral cell dendrite arbor during development and regeneration AchemS 1999.
163. Ivic, L, Pyrski, MM, Richards, L, Firestein, S, and **Margolis, FL**: Electrophysiology of OMP-null ORNs and rescue with and OMP-IRES-GFP adenovirus. AchemS 1999.
164. Priest, CA, **Margolis, FL**, Margolis, JW, Cummings, DM, Borelli, E, Puche, AC and Shipley MT: Dopamine D2-receptro deficient mice exhibit decreased levels of tyrosine hydroxylase expression in the olfactory bulb Soc Neurosci 25, 130 (1999).
165. Zhou, FM, Margolis, J, Aroniadou-Anderjaska, V, Ennis, M, **Margolis, FL**, Borelli, E. and Shipley, M. AMPA and NMDA receptor-mediated synaptic transmission between olfactory nerve and juxtglomerular cells and its presynaptic inhibition by Dopamine D2 receptors in mice Soc Neurosci 25, 1472 (1999).
166. Cummings, DM, Venkatraman, G, Behrens, M, Modena, C, and **Margolis FL**: BMP expression in the developing olfactory system Soc for Neurosci 25, 387 (1999).
167. Modena, C., Cummings, DM, Behrens, M. Margolis JW and **Margolis, FL**: BMPs in the normal and regenerating adult olfactory system: Expression and localization. Soc Neurosci 25, 387 (1999).
168. Puche, AC, Munger, SD, Reed, RR, **Margolis, FL** and Shipley MT Olfactory receptor neuronal activity determines mitral cell dendrite arbor during development and regeneration Soc Neurosci. 25, 2286 (1999).
169. Cummings DM, Behrens M, Modena C, Venkatraman G, Tian Y and **Margolis FL**: BMPs and BMP-antagonists in the olfactory system. AChemS 2000: 78
170. Pyrski MM and **Margolis FL**: H-LacZ6, a mouse model to study the expression of odorant receptor genes ? AChemS 2000: 245
171. Heilmann S, Hummel T, **Margolis FL**, Kasper M and Witt M: Expression of Galectins 1 and 3 and Olfactory Marker Protein (OMP) in human olfactory epithelium. AChemS 2000:201
172. Behrens M, Margolis J, Baldisseri DM, Thompson R and **Margolis FL**: OMP takes a partner. AChemS 2000:22115
173. Ivic L, Pyrski MM, Richards L, **Margolis FL** and Firestein S: Pharmacological characterization of EOG responses in control and OMP-null mice. AChemS 2000:116
174. Bovolin P, Puche AC, Katarova Z, Szabo G, **Margolis FL** and Shipley MT Expression profiles of selected cell populations in the mouse olfactory bulb. AChemS 2000 73
175. Youngentob SL, **Margolis FL** and Youngentob LM OMP gene deletion results in an alteration in odorant quality perception. ISOT/ECRO 2000: 11
176. **Margolis FL**, Behrens M, Margolis JW and Baldisseri DM. OMP finds a partner. ISOT/ECRO 2000: 119.

177. Heilmann S, Hummel T, Margolis FL, Kasper M and Witt M: Expression of Galectins 1 and 3 and Olfactory Marker Protein (OMP) in human olfactory epithelium. ISOT/ECRO 2000: 160.
178. Puche AC, Bovolín P, Katarova Z, Szabo G, **Margolis FL** and Shipley MT Layer- and neuronal-specific expression profiles in the developing mouse olfactory bulb. *Neurosci. Abstr.* 26: 840 2000
179. Baldisseri, DM, Margolis JW, Omotosho, PA, Volkman BF and **Margolis FL**: Structure of olfactory marker protein and its interaction with a target peptide using NMR *Frontiers in NMR and Biology* 2001.
180. Koo JH, Margolis JW, Behrens M, Pyrski MM and **Margolis FL** Purification and characterization of Bex, an OMP partner *FASEB J* 15 (5): A894-MAR 8 2001.
181. Baker H and **Margolis FL**: Mechanisms of differentiation and migration of olfactory progenitors. Symposium AChemS 2001
182. **Margolis FL**, Margolis JW, Omotosho PA, Volkman BF and Baldisseri DM: OMP is a beta-clam. AChemS 2001
183. Peretto, P, Modena, C, Fasolo A, **Margolis, FL**: BMP and noggin in SVZ of adult CNS. AChemS 2001
184. McBride K, **Margolis FL**, Slotnick B: Does Intranasal Application of Zinc Sulfate Produce Temporary Anosmia in Mice? AChemS 2001
185. Peretto P, Dati C, De Marchis S, Modena C, Fasolo A and **Margolis FL**. Expression of the secreted factors noggin and BMPs in the subependymal layer (SEL) of adult mouse brain *Italian Soc Neuro Sept* 2001
186. Schulze DH, Ruknudin A, Margolis JW, Polumuri SK, **Margolis FL**, Sodium Calcium Exchangers in Olfactory Tissue. "Cellular and molecular physiology of Sodium-Calcium exchange" Banff, Oct-2001
187. Richards L., Pyrski M. and **Margolis FL** Expression of Nuclear factor I-A in developing mouse brain. SFN San Diego 2001
188. Goldenberg-Cohen, N. **Margolis FL**., Miller, NR. and Bernstein SL. Functional changes in a mouse model of anterior ischemic optic neuropathy. *ARVO 2002 Investigative Ophthalmol. Vis Sci* vol 43.
189. Pyrski MM., Margolis JW., Polumuri SK., Bell G., Ruknudin A., Schulze DH., **Margolis FL**. Expression of Na⁺/Ca²⁺/(K⁺) exchangers in olfactory receptor neurons (ORNS). AChemS 2002
190. Koo, J., Behrens, M., Margolis, JW, **Margolis, FL**. Bex-OMP Interaction AChemS 2002
191. Pyrski M.M., Margolis J.W., Polumuri S.K., Bell G., Ruknudin A., Schulze D.H., Margolis F.L. Expression of Na⁺/Ca²⁺/(K⁺) exchangers in olfactory receptor neurons (ORNS). ECRO Erlangen, July 2002.
192. Peretto, P, DeMarchis S, Data C, Beltramo D, Fasolo A and **Margolis FL**. Expression of noggin and BMPs in the subependymal layer (SEL) of adult mouse brain. SFN Nov. 2002.
193. Ukhanova M., Margolis J., **Margolis FL**. Microarray analysis of bone morphogenetic proteins (BMPs), receptors and modulators in the developing mouse olfactory bulb (OB) AChemS 2003
194. Koo J., **Margolis FL**. The interaction of OMP and Bex reveals an OMP dimer AChemS 2003
195. Fasolo A, Peretto P, Melcangi R, **Margolis FL**: Molecular factors controlling adult neurogenesis in Neuron Differentiation and Plasticity- Regulation by Intercellular Signals Moscow (July 6-9, 2003).
196. Koo J.H, **Margolis FL**. The OMP dimer is a metabolically active form. XIX Int'l Congress of Biochemistry and Molecular Biology, Toronto/Montreal 2003
197. **Margolis FL** Differentiation and migration of olfactory progenitors 22nd ISIAN Seoul Korea (2003).
198. Margolis, FL, Borelli E., Margolis JW, Chiavegatto S. Dopamine D2 receptor-deficient mice exhibit increased levels of dopamine and its metabolites in olfactory bulb. Society for Neuroscience 2003.

199. Margolis JW, Munger SD, Zhao H, **Margolis FL**. OMP: A cautionary tale of a gene within a gene. AChemS 2004
200. Koo JH, Manda S, **Margolis FL** Immunolocalization of Bex proteins in the mouse brain: Colocalization with OMP. AChemS 2004
201. Kwon HJ, Leinders-Zufall, Zufall, F, **Margolis FL**. OMP is a modulator of Ca clearance processes in mouse olfactory neurons (ORNs). AChemS 2004
202. Bovetti S, Restani L, Puche A, **Margolis FL**, Bovolin P, Fasolo A Sensory input regulates splicing of the N1 cassette in NMDAR1 subunits of the adult olfactory bulb. Europ Neurosci Mtg July 2004 Lisbon.
203. Margolis J., Munger S.D., Zhao H., **Margolis FL**: The *omp* gene is found within an intron of *calpain 5* ISOT 2004 Kyoto
204. Kim, HH and **Margolis FL** Peripheral deafferentation alters gene expression in the mouse piriform cortex. SFN Nov 2004
205. Kwon HJ, Leinders-Zufall T. **Margolis FL**. The absence of OMP causes compromised NCX activity in the mouse olfactory receptor neurons. SFN 2005
206. Ukhanova M, Anji A, Kim HH, Kumari M, **Margolis FL**. EtOH and olfactory sensory neurons (OSNs): The canary in the mine? SFN 2005
207. Bovolin P, Bovetti S, Giachino C, Restani L, **Margolis, FL**, Fasolo A Puche A. Primary afferents regulate NMDA expression in the adult olfactory bulb Soc For Neuroscience 2005
208. Kim H.H. and **Margolis FL**. NR2B gene expression is altered in mouse piriform cortex after peripheral deafferentation AChemS 2005
209. Ukhanova M, Kim HH, Margolis, JW., **Margolis FL** Ethanol *in vivo* causes degeneration of olfactory sensory neurons AChemS 2006
210. Kim HH., Puche AC. and **Margolis FL**. Odorant deprivation reversibly modulates NR2B-mediated CREB phosphorylation in mouse piriform cortex. AChemS 2006
211. Ukhanova M, Kim HH, and **Margolis FL** : Olfactory degeneration and regeneration in response to ethanol. Research Society on Alcohol June 2006
212. **Margolis, FL**, Youngentob S, Margolis JW, Kent P, Koo JH OMP Mechanism of action: A model. AchemS 2007
213. Reisert J, Yau KW, **Margolis FL**: OMP controls the kinetics of the odor-induced response in mouse olfactory sensory neurons. AChemS 2007
214. Ukhanova M, **Margolis FL**: Transynaptic effects and topographic re-innervation of olfactory bulb after binge alcohol AChemS 2007
215. Hamilton KA, Parrish-Aungst S, **Margolis FL**, Shipley MT, Puche AC Sensory deafferentation transsynaptically alters neuronal GluR1 expression in the external plexiform layer of the adult mouse olfactory bulb. SFN 2007
216. Kent PF, Youngentob SL, **Margolis FL**: Olfactory marker protein is a novel modulator of Ca²⁺ efflux in olfactory sensory neurons WCBR 2007
217. Kwon HJ, Koo JH, Margolis JW, **Margolis FL**: Molecular mechanism of NCX regulation via dynamic interactions of CaM, OMP and Bex in olfactory sensory neurons AChemS/ISOT 2008
218. Kent PF, Youngentob SL, **Margolis, FL**: Olfactory marker protein(OMP) is a novel modulator of Ca²⁺ efflux in olfactory sensory neurons AChemS/ISOT 2008
219. Hamilton K, Puche AC, **Margolis FL**: Transynaptic alterations in AMPA receptor expression in deafferented olfactory bulb AChemS/ISOT 2008
220. Kwon HJ, Varney K, Margolis J, Weber D, **Margolis FL**: Does olfactory marker protein function by interacting at calmodulin binding sites? AChemS 2010
221. Tyagi M and **Margolis FL** Regulation of sodium calcium exchanger (NCX) activity by calmodulin or OMP in the olfactory signaling transduction cascade AChemS 2010
222. Koo, J.H. **Margolis, FL**. Bex1 participates in muscle regeneration by regulating myogenic satellite cell differentiation APSN (Asia-Pacific Society for Neurochemistry) 2010 Phuket Island, Thailand (October 17-20, 2010).

223. Tyagi M, Margolis JW, **Margolis FL**. Role of Olfactory Marker Protein in regulation of Na-Ca exchange activity in olfactory cilia of WT, OMP-KO and Bex1-KO mice AChemS 2011
224. **Margolis FL**, Margolis JW, Varney K., Kwon HJ, Weber DJ. Does OMP bind apo-Calmodulin? AChemS 2011.
225. Kang N, Kim H, **Margolis FL**, Koo JH, Expression of olfactory signaling molecules in the non-chemosensory tissues .AChemS XXXV April 2013

Major Invited Speeches:

Local

1. Invited Lecturer NINCDS International Symposium on "The Role of Peptides in Neuronal Function", Bethesda, MD (1979).
2. Co-organizer: "Frontiers in sensory biology: Translation to therapy" 5th Annual Symposium Program in Neuroscience, UM.B Baltimore MD May 14 2002

National

1. Co-Chairman: Session on "GABA and Putative Neurotransmitters", American Society of Neurochemistry; New Orleans, LA (1974).
2. Invited Lecturer: Seventh Annual Meeting of the Society for Neuroscience Symposium on "Neurochemistry of Olfactory Circuits"; Anaheim CA (1977).
3. Invited Lecturer: "Chemistry and Physiology of Odor and Taste"; Gordon Research Conferences; Andover, NH (1978).
4. Invited Participant: Roundtable Discussion on "Neuropeptides", 10th Annual Meeting of the American Society for Neurochemistry; Charleston, SC (1979).
5. Invited Participant: Roundtable Discussion on "Do Peptides Fulfill the Criteria for Neurotransmitters in the CNS?"; 11th Annual Meeting of the American Society for Neurochemistry, Houston, TX (1980).
6. Invited Lecturer: International Symposium on "Biochemistry of Taste and Olfaction"; Monell Chemical Senses Center, Philadelphia, PA (1980).
7. Organizer and Chairperson of Symposium on "Neurotransmission in Primary Sensory Pathways"; 12th Annual Meeting of the American Society for Neurochemistry, Richmond, VA (1981).
8. Organizer and Chairperson: "Neurotransmitters in Chemosensory Pathways"; Gordon Research Conference on the Chemical Senses, Andover, NH (1981).
9. Invited Lecturer: "Symposium on Neuronal Plasticity in the Olfactory System"; Winter Conference Brain Research, Steamboat Springs, CO (1982).
10. Invited Lecturer: Society for Neuroscience Meeting, Special Interest Meeting: "Transneuronal Control of Neuronal Phenotype in the Olfactory Bulb"; Boston, MA (1983).
11. Organizer and Chairperson: "Symposium on Current Advances in Neurochemistry of the Mammalian Olfactory System"; Association for Chemoreception Sciences, AChemS VII, Sarasota, FL (1985).
12. Invited Participant: "Study Group on Primary Events in the Olfactory System"; Sponsored by Army Research & Development Center, Ft. Belvoir, VA; Sarasota, FL (1985).
13. Invited Lecturer: Symposium on "Cellular and Molecular Approaches to the Study of developing Sensory Systems"; Jefferson Medical College, Philadelphia, PA (1986).
14. Invited Lecturer: "Receptors"; FASEB Summer Research Conference, Saxtons River, VT, (1986).
15. Invited Lecturer: "Development and Plasticity of Chemosensory Systems"; Gordon Conference, Plymouth, NH (1987).

16. Invited Lecturer: Symposium on "Chemosensory Transduction"; Monell Chemical Studies Center, Philadelphia, PA (1988).
17. Invited Lecturer: Symposium on "Genetics and Immunology of Chemosensation and Chemical Communication"; Monell Center, Philadelphia, PA (1988).
18. Invited Lecturer. FASEB Symposium on "Sensory Signal Transduction"; New Orleans, LA (1989).
19. Invited Lecturer: "Development and Plasticity of Chemosensory Systems"; Gordon Conference, Plymouth, NH (1987).
20. Invited Lecturer: Symposium on "Chemosensory Transduction"; Monell Chemical Studies Center, Philadelphia, PA (1988).
21. Invited Lecturer: Symposium on "Genetics and Immunology of Chemosensation and Chemical Communication"; Monell Center, Philadelphia, PA (1988).
22. Invited Lecturer. FASEB Symposium on "Sensory Signal Transduction"; New Orleans, LA (1989).
23. Invited Participant. UCLA Symposium on "Molecular and Cellular Neurobiology"; South Padre Island, TX (1990).
24. Invited Participant: Central Institute for the Deaf (CID) "First Conference on Biological Replacement in Sensory Systems"; St. Louis, MO (1991).
25. Invited Lecturer: Conference on "Development, Growth and Senescence in the Chemical Senses", N.I.H, Bethesda, MD (1992).
26. Organizer and Chair: Symposium, "Molecular Biology and the Chemical Senses"; AChemS XIV, Sarasota, FL (1992).
27. Invited Lecturer: "Signal Transduction in Olfactory Receptors"; Symposium at the 1992 World Congress on Cell and Tissue Culture, Washington, DC (1992).
28. Invited Lecturer: Molecular Neurobiology Course, Cold Spring Harbor, NY (1992).
29. Invited speaker: "New Frontiers in Neuropharmacology - A Tribute to Sydney Spector on the Occasion of his 70th Birthday"; ASPET, San Francisco, CA (1993).
30. Organizer and speaker of "Symposium on Molecular Genetics in Smell and Taste"; ASN94 Albuquerque, NM (1994).
31. Invited panelist: "Olfactory cell cycle analysis: from G₀ to apoptosis" Assoc. for Chemoreception Sciences, Sarasota, (1996).
32. Invited speaker: Gordon Research Conference on the Chemical Senses, Newport, R.I. (1996).
33. Invited panelist: "Olfactory cell cycle analysis: from G₀ to apoptosis" Assoc. for Chemoreception Sciences, Sarasota, (1996).
34. Invited speaker: Gordon Research Conference on the Chemical Senses, Newport, R.I. (1996).
35. Invited Seminar Speaker 2008-2012
Burke Inst, Cornell Univ NY
Florida Atlantic University, Boca Raton FL
Kansas State Univ. Manhattan KS
Howard Univ. Washington DC
Michigan State Univ. East Lansing, MI
Case Western University, Cleveland O.
36. Invited seminar speaker, Burke Rehabilitation Center, Cornell Univ. "An appreciation on the occasion of the retirement of Harriet Baker"(2014).

International

1. Invited Lecturer: NATO Advanced Study Institute "Proteins in the Nervous System"; Cortona, Italy (1972).
2. Invited Lecturer: International Society for Neurochemistry, "Symposium on Brain-Specific Proteins"; Tokyo, Japan (1973).

3. Invited Participant: NATO Advanced Study Institute "Metabolic Compartmentation in Relation to Structure and Function of the Brain"; Oxford, UK (1974).
4. Organizer and Participant: Symposium on "Cell-Specific Marker Proteins in Nervous Tissue", American Society of Neurochemistry; Mexico City, Mexico (1975).
5. Invited Lecturer: Sixth International Congress of Pharmacology Symposium on "Novel Transmitter Substances"; Helsinki, Finland (1975).
6. Invited Lecturer: "Molecular Studies of Olfactory Marker Protein"; ECRO Lyon, France (1984).
7. Invited Participant: "Molecular Mechanisms in Olfaction"; NATO Advanced Research Workshop, University of Warwick, U.K., (1985).
8. Invited Lecturer and Co-organizer: Fifth Study Group on "Sensory Transduction"; FESN, Geneva, Switzerland (1987).
9. Invited Lecturer. "Third International Congress on Phosphoprotein"; The Netherlands (1990).
10. Invited Lecturer. Symposium on "Neurobiology of the Olfactory System"; Annual Meeting of the Italian Society of Neurosciences, Palermo, Italy (1990).
11. Invited Discussant. Ciba Foundation Symposium, "Regeneration of Vertebrate Sensory Receptor Cells"; London, UK (1990).
12. Invited Lecturer: IVth IIGB Meeting "Cellular and Molecular Clues in Neural Development"; Capri, Italy (1991).
13. Co-organizer and Chair: CIBA Foundation Symposium "Chemosensory Transduction: Molecular Pharmacology of Olfaction and Taste"; London, UK (1993).