

CURRICULUM VITAE

Name: Enrique Massa

Birthdate: 10-10-65

Birthplace: McAllen, TX

Ethnicity: Mexican-American

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Education: B.S. Biology, May 1989
Pan American University, Edinburg, TX

Pharmacology, August 1989-July 1991
University of Michigan, Ann Arbor, MI
Advisor: Dr. William B. Pratt

M.S. Neuroscience, December 1993
University of Michigan, Ann Arbor, MI
Advisor: Dr. Michael D. Uhler

Ph.D. Neuroscience, October 1995
University of Michigan, Ann Arbor, MI
Dissertation: The role of the β_2 subunit in function and regulation of neuronal L-type calcium channels.
Advisor: Dr. Michael D. Uhler

Postdoctoral Fellow, November 1995-July 1997
Department of Genetics
University of Wisconsin, Madison, WI
Advisor: Dr. Barry Ganetzky

Honors and Award

1994-1995 R.W. Girard Neuroscience Fellowship
1993-1992 N.I.H. Neurology Training Grant
1989-1993 Michigan Merit Fellowship
1987-1989 Minority Biomedical Research Support Program Fellow
2000 Olan Kruse Science Faculty Award
2005 Who's Who Among America's Teachers

Society Membership

Society for the Advancement of Chicanos and Native Americans in Science
Genetics Society of America
Society for Neuroscience
Texas Academy of Science
Academy for Educator Development TAMU System Regent's Initiative

Professional Experience

1986-1987 Research Assistant, Department of Chemistry, Pan American University

1986-1989 Teaching Assistant, Department of Biology, Pan American University

1987-1989 MBRS Undergraduate Research Assistant, Department of Biology, Pan American University

1988 University of Texas Medical Branch Summer Research Program Fellow, UTMB-Galveston

1989-1991 Graduate Student Research Assistant, Department of Pharmacology, University of Michigan-Ann Arbor

1991-1995 Graduate Student Research Assistant, Neuroscience Program, University of Michigan-Ann Arbor

1995-1997 Postdoctoral Fellow, Department of Genetics, University of Wisconsin-Madison

1996-1997 Research mentor-LASER Minority Student Research Program, University of Wisconsin-Madison

1995-2001 Assistant Professor, Department of Biology, Texas A&M University-Kingsville

1997-Present Director, Minority Biomedical Research Support Program, Texas A&M University-Kingsville

2001-present Associate Professor, Department of Biology, Texas A&M University-Kingsville

2002-Present Graduate Coordinator, Department of Biology, Texas A&M University-Kingsville

2006 Acting Dean of Graduate Studies, Texas A&M University-Kingsville

Teaching/Mentoring Experience

1985-1989
Undergraduate Teaching Assistant, Department of Biology, Pan American University

1989-1991
Tutor, Department of Pharmacology, University of Michigan-Ann Arbor

1995-1997
Mentor for University of Wisconsin Summer Undergraduate Research Program

1997-Present

Undergraduate and Graduate Student Advisor for Research Projects and Theses

1999-Present

Supervision of Ronald E. McNair Program undergraduate students for research projects

1999-2000

Supervision of high school student science fair project.

University Committees

1997

College of Arts and Sciences, Recruitment/Retention Committee

1999-2000

University Honor Program Task Force

1999-2004

University Council on Assessment and Planning

2001-present

Texas A&M System Azimuth Team

2001-2002

Search Committee for Dean of the College of Arts and Sciences

2002

Chair, University SACS Institutional Effectiveness Subcommittee

2002-2003

Search Committee for Dean of the College of Engineering

2002-2003

Search Committee for Dean of the School of Pharmacy

2004-present

University Graduate Council, (Council Chair 2005-2006 and 2006-2007)

2004

Olan Cruse Award Selection Committee

2005

Chair, Graduate Program Review Committee

2005

Arts and Sciences Tenure Committee

2005-2006

University Library Committee

2006

Chair, Graduate Program Review Committee

2006

Time to Degree Task Force

2009

Search Committee for Provost/Vice President of Academic Affairs

2009

Search Committee for Dean of Arts and Sciences

2009

Chair, Institutional Biosafety Committee

Non University Committees

1997-2003

Codirector, University of Texas Medical Branch NIH-IMSD partnering grant

1999-present

Committee on Institutional Cooperation

2002

Ad hoc reviewer for NIH NIGMS MBRS Study Section

2004-present

Codirector, University of Texas Medical Branch Bridges to the Doctorate grant

2003-present

Advisor, Mental Health Research Gateway, University of Texas Health Science Center-San Antonio

2009

Search Committee for Pharmacologist, Irma Rangel School of Pharmacy

2009

Search Committee for Physiologist, Irma Rangel School of Pharmacy

Grant Funding

NIH-Research Infrastructure at Minority Institutions (1997-2002)

NIH-MBRS

Genetics of *Drosophila* ether-a-go-go-related gene product and membrane excitability
\$451,866 (1999-2002)

Coastal Bend Health Education Center

Isolation of toxin inhibitors of sulfonylurea receptors
\$40,000 (2001-2003)

NIH-MBRS

Genetics of *Drosophila ether-a-go-go*-related gene product and membrane excitability
\$525,000 (2003-2006)

NIH-MBRS

Administrative oversight of MBRS Program at Texas A&M University-Kingsville
\$250,000 (2006-2011)

Invited Presentations/Seminars

July 1997

University of Texas-Austin
Department of Zoology

October 1997

SACNAS National Conference

October 1999

University of Texas Medical Branch
Committee of Career Path Forum

March 2000

Southwest Texas State University
Department of Biology

University of Texas-Pan American
Department of Biology

December 2000

University of Minnesota
Department of Neuroscience

Rice University
Department of Biochemistry and Cell Biology

October 2001

University of Texas-San Antonio
Department of Biology

March 2002

Purdue University
Neuroscience Program
Keynote speaker, Annual Neuroscience Retreat

June 2002

St. Louis University
Department of Pharmacology

December 2002

Chicago State University
Department of Biology

Students Mentored

Graduate

Ronika Williams-pursuing Ph.D. at Case Western University
Roel Valadez-pursuing D.D.S. at UTHSC-San Antonio
Lorie Ann Gonzalez-pursuing Ph.D. at UNTHSC-Fort Worth
Sheri Foltz-Research Associate at UTMB
Jacob Garza-Pursuing Ph.D. at UTHSC-San Antonio
Omar Salgado-Pursuing Ph.D. at University of Wisconsin-Madison
Octaviano James Beltran-Pursuing Ph.D. at Baylor College of Medicine
Robina Lozano-Web Consultant
Alexandra Soto Pina-Pursuing Ph.D. at UTHSC-San Antonio
Deborah Nicole Ponce-Pursuing Ph.D. at UTMB
Pavani Mocharla-graduating Fall 2006
Michael Hinojosa-graduating Fall 2006, Admitted to Ph.D. program at UTMB
Kian Haghoo-public school teacher
Ravi C. Lala-current graduate student
Phani. M. Mummaredi-current graduate student
Brandie Mendez-current graduate student

Undergraduate

Catherine Nordfelt-Pursuing Ph.D. at Auburn University
Stacy High-Research associate at M.D. Anderson Cancer Center
Beatriz Lopez-Pursuing M.D. at UTHSC-San Antonio
Elizabeth Robinson-Completing B.S. degree at TAMUK
Myriam Moctezuma-Research associate at UT-Southwestern
Farhboud Nekouei-Graduate studies at TAMU
Anthony Gonzalez-Pursuing D.D.S. at UT-Houston HSC
David Cuevas-Pursuing D.D.S. at UTHSC-San Antonio
Margaret Ehimika-Applying to pharmacy programs
Lisa Rodriguez-Pursuing Pharm.D. at UT-Austin
Jessica Ochoa-Pursuing M.S. in Physician Assistant at UTPA

Publications

Cavazos, R., Jr., Farooqui, M.Y., Day, W.W., Villarreal, M.I. and Massa, E. (1989) Disposition of methacrylonitrile in rats and distribution in blood components. *J Appl Toxicol* **9**:53-57.

Dalman, F.C., Koenig, R.J., Perdew, G.H., Massa, E. and Pratt, W.B. (1990) In contrast to the glucocorticoid receptor, the thyroid hormone receptor is translated in the DNA binding state and is not associated with hsp90. *J Biol Chem* **265**:3615-3618.

Farooqui, M.Y., Cavazos, R. Jr., Villareal, M.I. and Massa, E. (1990) Toxicity and tissue distribution of methacrylonitrile in rats. (1990) *Ecotoxicol Environ Safety* **20**:185-196.

Scherrer, L.C., Dalman, F.C., Massa, E., Mesinchi, S. and Pratt, W.B. (1990) Structural and functional reconstitution of the glucocorticoid receptor-hsp90 complex. *J Biol Chem* **265**:21397-400.

Farooqui, M.Y. and Massa, E. (1991) Effect of glutathione on in vitro metabolism of unsaturated aliphatic nitriles to cyanide. *Bull Environ Contam Toxicol* **46**:431-435.

Publications-Continued

Scherrer, L.C., Picard, D., Massa, E., Harmon, J.M., Simons, S.S., Yamamoto, K.R. and Pratt, W.B. (1993) Evidence that the hormone binding domain of steroid receptors confers hormonal control on chimeric proteins by determining their hormone-regulated binding to heat shock protein 90. *Biochemistry* **32**:5381-5386.

Gross, R.A., Huggenvik, J., Massa, E., Allen, R.G. and Uhler, M.D. (1994) Genetic alteration of cyclic adenosine 3'-5'-monophosphate-dependent protein kinase subunit expression affects calcium currents and b-endorphin release in AtT20 clonal pituitary cells. *Mol Endo* **8**:970-982.

Massa, E., Kelly, K., Yule, D.I., Macdonald, R.L. and Uhler, M.D. (1995) Comparison of FURA-2 imaging and electrophysiological analysis of murine calcium channel α subunits coexpressed with novel β subunit isoforms. *Mol Pharmacol* **47**:707-716.

Hall, K.U., Collins, S.P., Gamm, D.M., Massa, E., Depaoli-Roach, A.A. and Uhler, M.D. (1999) Phosphorylation-dependent inhibition of Protein Phosphatase-1 by G-substrate: a Purkinje cell specific substrate of the cyclic GMP-dependent protein kinase. *J Biol Chem* **274**:3485-3495.

Foltz, S.M., Valadez, R. and Massa, E. Molecular characterization of a *Drosophila* homolog of the human KCNQ potassium channel. (Manuscript in preparation)

Williams, R.W., Valadez, R. and Massa, E. Isolation and characterization of a *Drosophila* two-pore domain K⁺ channel: Developmental regulation of alternative splicing (Manuscript in preparation)

Valadez, R. and Massa, E. Alternative splicing of the Derg 5' end: alternate promoter utilization (Manuscript in preparation)

Gonzalez, L.A. and Massa, E. Identification and analysis of the *Drosophila* homolog of the SUP-9 two-pore domain potassium channel (Manuscript in preparation)

Garza, J and Massa, E. Molecular analysis of the *Drosophila* inward rectifier potassium channel homologs. (Manuscript in preparation)

Pavlik, P., Konduri, V., Massa, E., Simonette, R. and Beckingham, K. A dicistronic gene pair within a cluster of "EF hand" protein genes in the genomes of *Drosophila* species (Submitted to Genome Biology)