

CURRICULUM VITAE

NAME: Miguel (Mike) A. Pappolla

PRESENT POSITION AND ADDRESS:

Private Practice:

St. Michael's Pain and Spine Clinics
6243 Fairmont Pkwy. Suite 200
Pasadena, TX 77505
Clinical Practice Limited to Interventional Pain Management
Phone: 832-448-0706

Academic Practice:

Medical University of South Carolina
Neurosciences
Charleston, SC 29425
Position: Professor

UTMB: Academic Appointment Pending

EDUCATION AND DEGREES:

MD, 1978, University of Buenos Aires, Argentina
Ph.D-Doctorate, 2002, University of Catalunya, Barcelona, Spain
Human Aging

POSTGRADUATE RESIDENCY TRAINING:

Anatomic and Clinical Pathology
Northeastern Ohio Universities, July 1980- June 1983

Neurology
University of South Alabama, October 1996- September 2000

FELLOWSHIPS:

Neuropathology
Case Western Reserve University, July 1983- June 1984

Neuropathology
Cleveland Clinic Foundation, July 1984- June 1985
Interventional Pain Management (Anesthesia accredited program)
University of Mississippi, Jackson Mississippi (2005-2006)

BOARD CERTIFICATIONS:

American Board of Pathology
-Anatomic Pathology, 1986.
-Neuropathology, 1986 (Combined Certification)

-Clinical Pathology, 1990

American Board of Psychiatry and Neurology

-Neurology, 2004

-Pain Medicine, 2008 (Anesthesia-based ABMS accredited Interventional Pain Fellowship)

LICENSURE :

Alabama (Inactive), Florida, Ohio, New York (Inactive), Texas, Mississippi, South Carolina

PROFESSIONAL AND TEACHING EXPERIENCE: (academic; non-academic)

Feb 2006-Current	Professor of Neurology
Dec 2005-Dec 2006	Pain Fellow- Interventional Pain Management Department of Anesthesia-University of Mississippi at Jackson, MS
---Practice interrupted due to hurricane Katrina	
Feb 2004-Dec 2005	Clinical Professor of Neurology and Neuroscience LSU Health Science Center-New Orleans, LA
Oct 2001 – 2004	Professor of Pathology (Neuropathology) and Associate Professor of Neurology, University of South Alabama College of Medicine, Mobile, AL
Oct 1996 - Sept 2001	Associate Professor of Pathology (Neuropathology) and Neurology, University of South Alabama College of Medicine
Oct 1993 – Sept 1996	Associate Professor of Pathology (Neuropathology) University of Texas Medical School Health Science Center-Houston
July 1991 – March 1993	Assistant Professor of Pathology (Neuropathology) Mount Sinai Medical School-New York-NY
July 1990 – June 1992	Associate Professor of Pathology (Neuropathology) New York Medical College
July 1987 – June 1991 Year	Director Pathology Residency Program Accredited Research Component of Training-Montrose VA Medical Center
July 1986 – June 1990	Assistant Professor of Pathology (Neuropathology) New York Medical College
July 1985 - June 1986	Clinical Assistant Professor of Pathology (Neuropathology) New York Medical College

PROFESSIONAL APPOINTMENTS (academic and non-academic):

July 2001- June 2005	Chairman and Director of Clinical Services, Neurology Memorial Hospital at Gulfport, MS (non-academic)
July 2001-August 2005	Director and Senior Partner. McGowin Center for Neuroscience (Private Practice Neurology Group) Practice and building totally demolished by hurricane Katrina
Dec 2002 – Jan 2004	Director, Neuropathology Division University of South Alabama College of Medicine
Sept 2000 - 2003	Scientific and Founding Director Alzheimer’s Foundation of the South, Mobile, AL
Nov 1999 – June 2001	Director, Memory Disorders Clinic University of South Alabama College of Medicine Department of Neurology
Oct 1996 – Jan 2004	Attending Neuropathologist Department of Pathology University of South Alabama College of Medicine
Oct 1996 – Jan 2000	Neurology Resident Department of Neurology University of South Alabama College of Medicine
Oct 1993 – Sept 1996	Attending Pathologist and Neuropathologist Department of Pathology and Laboratory Medicine University of Texas Medical School, Houston, TX
June 1991 – Mar 1993	Attending Pathologist and Neuropathologist Bronx VA Medical Center, Bronx, NY
July 1987 – Mar 1993	Director, Special Clinical Resource Center for Muscle and Nerve Studies (Nationwide Neuromuscular Referral Laboratory), Department of Veteran Affairs, Washington D.C.
June 1985 – July 1991	Chief of Service Pathology and Laboratory Medicine. FDR VA Medical Center, Montrose, NY
July 1985 – June 1991	Attending Pathologist Surgical Pathology and Neuropathology, New York Medical College and Westchester Medical Center, Valhalla, NY

RESEARCH ACTIVITIES:

Area of Research: Alzheimer's disease. Pathogenesis of amyloid, therapeutics and risk factors.

Grant support

Position: Principal Investigator
Number: R01AG022103-02
Title: Cholesterolemia and amyloidogenesis
Grantor: NIH
Period: 2003-2008 (On two year extension to 2010 due to hurricane Katrina)
Total Amount: \$1,825,000

Pending

Position: Principal Investigator
Number: 1R01AG033742-01
Title: Novel Indole Substances as Therapeutic Agents for Alzheimer's Disease
Grantor: NIH
Total Amount Requested: 1,900,000

Past

Position: Principal Investigator
Number: 1R01AG022103-01
Title: Melatonin as a novel antioxidant and anti-amyloidogenic agent
Grantor: NIH
Period: 2001-2006
Total Amount: \$1,200,000

Position: Principal Investigator
Title: A pilot trial of Melatonin in Alzheimer's Disease
Grantor: Alzheimer's Association. **ZENITH AWARD
Period: 2001-2009 (\$ 50,000 remaining)
Amount: \$250,000

Position: Principal Investigator
Title: Neuroscience Research Program
Grantor: Neuroscience Education and Research Foundation UCSD, La Jolla, CA
Period: 2000-2002
Amount: \$80,000

Position: Principal Investigator
Title: Indoles compounds as neuroprotective agents
Grantor: Mindset Corporation, Jerusalem, Israel

Amount: \$240,000
Period: 1998-2001

Position: Principal Investigator
Title: Melatonin and Antioxidants as Therapeutic Agents in a Transgenic Mouse Model of Alzheimer's Disease.
Number: 1R55AG014381-01A2
Grantor: NIH
Period: 2000-2001
Amount: \$100,000

Position: Principal Investigator
Title: Oxidative Stress and Amyloidogenesis
Number: RO1 AG number not available
Grantor: NIH
Period: 1986-2001
Amount: ~\$1,000,000

Position: Principal Investigator
Title: A Pilot Trial of Long-Term Melatonin Treatment for AD. Preliminary Studies
Grantor: New York University
Period: 1998-1999
Amount: \$20,000

Position: Principal Investigator
Title: Mutations, Oxidative Stress and Amyloidogenesis
Grantor: NIH
Period: 1995-1999
Amount: \$750,000

Position: Principal Investigator
Title: Blood Brain Barrier Abnormalities and Neuroreceptor Function in Aging.
Grantor: Veterans Administration Agency
Period: 1986-1988
Amount: \$40,000

Position: Principal Investigator
Title: Serum Deposits in the Human Mesencephalon. It's Relation to Parkinson's Disease and Aging.
Grantor: Cleveland Clinic Foundation
Period: 1985
Amount: \$6,000

Position: Co-Principal Investigator
Title: Spastic, Supercute, Chronic and Relapsing Forms of EAE.
Grantor: Multiple Sclerosis Society

Period: 1986-1989
Amount: \$250,000

COMMITTEE RESPONSIBILITIES:

International/National

World Alzheimer's Congress (Alzheimer's Association and Nancy Reagan Foundation)
Scientific Advisory Committee, 2002-2004

Department of Veterans Affairs, Washington D.C.
Member, Clinical Pathology Advisory Group
(This body makes nationwide recommendations on Q.A. issues to V.A. hospitals) 1987-1988

American Association of Neuropathologists
Award Committee Member, 1999-2001

American Association of Neuropathologists
Program Committee Member, 1998-1999

Alzheimer's Association (Headquarters, Chicago, IL)
Member, IRB, Medical and Scientific Advisory Council, 1997-Current

University of Catalunya, Barcelona, Spain
Member, Scientific Advisory Board, 1998-Current

State/Regional

Westchester Society of Pathologists, Westchester, New York State
--Vice President, 1989-1993
--Secretary, 1989-1993
--Treasurer, 1989-1991

Medical Executive Board Member
Memorial Hospital at Gulfport 2001-2005

Clinical Executive Board Member
FDR VA Medical Center, 1985-1991

Director, Blood Bank Services
FDR VA Medical Center, 1985-1991

Chairman, Tissue Committee
FDR VA Medical Center, 1985-1991

Chairman, Medical Records Committee

FDR VA Medical Center, 1985-1987

Chairman, Transfusion Medicine Committee
FDR VA Medical Center, 1985-1991

I have not kept track of regular hospital committee memberships

Scientific Sessions Organized

World Alzheimer's Congress (Alzheimer's Association and Nancy Reagan Foundation)
Member of the Organizing Committee, 2002-2004

Co-organizer. Inter-American Neuropathology Congress (Brazil-Chile-Argentina)

Scientific Sessions Chaired / Discussion Leader

Sessions for the American Association of Neuropathologists and for the World Alzheimer's
Congress (I have not kept track)

TEACHING RESPONSIBILITIES AT ACADEMIC INSTITUTIONS

a. Teaching. See above

b. Students/Mentees/Advisees/Trainees

Post-doctoral fellows: Javier Pacheco, PhD (LSU, New Orleans) 2008. Marta Manjon, MS 2002-2004 (University of South Alabama and University of Catalonia, Barcelona, Spain). Marta Garcia-Fabra (University of South Alabama and University of Catalonia, Barcelona, Spain). B. Saran, MD 1986-1990 (New York Medical College). Yan Chyan, PhD 1994-2000 (University of South Alabama)

Ph.D. degree students: Javier Pacheco, (Main Thesis Advisor, graduated: 2008; LSU Health Sciences Center at New Orleans)

Master's degree students: Liu Fang 2004-2007; LSU Health Sciences Center at New Orleans

Undergraduate degree students: None

c. Chair/Member of Ph.D. Supervisory Committee LSU Health Sciences Center at New Orleans.

Chair/Member of Masters Thesis Supervisory Committee for Liu Fang Graduate: 2007, LSU health Science Center at New Orleans.

External Reviewer of Master's dissertation of: Chitra Venugopal 2007 (MUSC)

MEMBERSHIP IN SCIENTIFIC SOCIETIES/PROFESSIONAL ORGANIZATIONS:(* denotes elected membership)

Westchester Society of Pathologists

*Vice President, 1989-1993

*Secretary, 1989-1993

*Treasurer, 1989-1991

HONORS:

Josephine T. Morse Endowed Professorship in Neuropathology
Medical University of South Carolina, 2006

Commendation Award for Academic Excellence and Leadership.
LSU Health Sciences Center, New Orleans, 2006.

Teaching Award, Department of Neurology.
University of South Alabama, Given by graduating Neurology residents, 2001.

Weil Award (awarded to the best study in Neuropathology leading to advancements on mechanisms of disease). American Association of Neuropathologists, 2000

Zenith Fellowship Award (\$250,000)
Alzheimer's Association, 2000

Cum Lauded Doctorate Graduate, University of Catalonya, Barcelona, Spain, 2000
Field of Study: Human Aging

Commendation Award, for Academic and Clinical Excellence
Department of Veterans Affairs, Washington, DC, 1990.

James A. Shannon Director's Award, (\$100,000)
National Institutes of Health, 1998

Honorary Member Emeritus
Argentine Society of Pathologists

ADDITIONAL INFORMATION:

Editorial Boards

Journal of Neuropathology and Experimental Neurology
Editorial Board Member, 1999-2002

Journal of Alzheimer Disease
Associate Editor, 1999-2001

Current Alzheimer's Research
Editorial Board Member, 2004-Current

Journal Reviewer (representative sample of ad-hoc activities)

Acta Neuropathologica
American Journal of Pathology
Archives of Pathology and Laboratory Medicine
Archives of Biochemistry and Biophysics
Biochemistry
Brain Research
Digestive Diseases and Sciences
FEBS Letters
Free Radical Research in Biology and Medicine
Journal of Neuropathology and Experimental Neurology
Journal of Neuroscience
Journal of Neurochemistry
Journal of Pineal Research
Journal of Alzheimer's Disease
Molecular and Chemical Neuropathology
Nature Clinical Neurosciences
Neurobiology of Aging
Proceedings of the National Academy of Sciences

Grant Reviewer:

National Institutes of Health, study section permanent (chartered) member
CNBT panel, 2008-2012

National Institutes of Health, consultant and study section permanent member
Brain Disorders & Clinical Neurosciences-3 panel, 1998-2006

National Institutes of Health
Consultant, Neurological Sciences-3 Study Section, 1995

Other. Taught residents and medical students on various capacities (rotations, etc.) for over 20 years including directing neuropathology curriculum/teaching for medical students at the University of Texas Medical School at Houston.

INVENTION PATENTS:

Use of Melatonin to Prevent Cytotoxic Effects of Alzheimer Amyloid Beta Protein
United States Patent # US 05958964

Method for Delaying the Onset of Alzheimer's Disease and for Treating or Delaying the Onset of Other Amyloidosis-Related Diseases/Disorders
United States Patent #US 6274615 issued August 14, 2001.

Uses of Indole-3-Propionic Acid (IPA) Compounds

United States Patent #US 6395768 issued May 28, 2002

Indolepropionamide as a Neuroprotective and Anti-aging Compound.
United States Patent pending

PUBLISHED:

A. ARTICLES IN PEER-REVIEWED JOURNALS:

Pappolla MA: Identification of Parasite Eggs. Arch Pathol Lab Med, 107:613, 1983. (letter)

Pappolla MA: Fungal Autofluorescence. Am J Clin Pathol, 81:402, 1983. (letter)

Pappolla MA, et al: Plasmocytoma of Stomach. Arch Pathol Lab Med, 108:95-96, 1984.

Pappolla MA, Mehta VT: The Periodic-Acid-Schiff-Reaction Stains Phagocytosed Atypical Mycobacteria in Paraffin Sections. Arch Pathol Lab Med, 108:372-373, 1984.

Pappolla MA: Histologic Differentiation between Gout and Pseudogout Using Polarized Light. Arch Pathol Lab Med, 108:361, 1984. (letter)

Pappolla MA, Mehta VT: Periodic-Acid-Schiff Reaction Stains Mycobacterium Tuberculosis, Mycobacterium Leprae, Mycobacterium Ulcerans, Mycobacterium Chelonel (Abscessus) and Mycobacterium Kansaii. Arch Pathol Lab Med, 109:702-703, 1985. (letter)

Pappolla MA, Andorn AC: Neuronal Aging. Hum Pathol, 17:428-429, 1986. (letter)

Andorn AC, Pappolla MA, Fox H, Klemens FK, Martello PA: Human Serum Cohn Fraction IV (Alpha-Globulin Enriched) Inhibits Ligand Binding at Neurotransmitters Receptors in Human Brain. Proc Natl Acad Sci, 83:4572-4575, 1986.

Pappolla MA: Lewy Bodies of Parkinson's Disease. Immunoelectron Microscopic Demonstration of Neurofilaments in Constituent Filaments. Arch Pathol Lab Med, 110:1160-1163, 1986.

Pappolla MA, Andorn AC: Serum Protein Leakage in the Aged Human Brain and Inhibition of Ligand Binding at Alpha-2-Adrenergic and Cholinergic Binding Sites. Synapse, 1:82-89, 1987.

Pappolla MA, Penton R, Weiss HS, Miller CH, Sahenk Z, Autilio-Gambetti L, Gambetti P: Carbon Disulfide Axonopathy. Another Experimental Model Characterized by Acceleration of Neurofilament Transport and Distinct Changes of Axonal Size. Brain Res, 424:272-280, 1987.

Pappolla MA: Periodic Acid in the Staining of Acid-Fast Bacilli in Tissue Sections. Arch Pathol Lab Med, 111: 407-409, 1987. (letter)

Pappolla MA, Shank DL, Dudley AW: Are Colloid Bodies Diagnostic of Parkinson's Disease? Hum Pathol, 19:6, 1988. (letter)

Pappolla MA, Shank DL, Dudley AW: Colloid Inclusion Bodies in the Nervous System: Their Presence in the Substantia Nigra is Diagnostic of Parkinson's Disease. *Hum Pathol*, 19:27-31, 1988.

Pappolla MA: Computerized Image Analysis Microspectroscopy of Tissue Sections. *Arch Pathol Lab Med*, 112:787-790, 1988.

Pappolla MA, Omar R, Saran B: The "Normal" Brain: "Abnormal" Ubiquitinated Deposits Highlight an Age Related Protein Change. *Am J Pathol*, 135:585-591, 1989.

Pappolla MA: Image Analysis Microspectroscopy of Senile Plaque Capillary Amyloid in Alzheimer's Disease. *Arch Pathol Lab Med*, 8:866-871, 1989.

Andorn AC, Pappolla MA: Serum Protein Interactions With Neurotransmitter Receptors: Implications For Alzheimer's Disease. *Prog Clin Biol Res*, 317:695-701, 1989.

Pappolla MA, Omar R, Saran B, Andorn AC, Suarez M, Pavia C, Weinstein A, Shank D, Davis K, Burgdorfer W: Concurrent Neuroborreliosis and Alzheimer's Disease: Analysis of the Evidence. *Hum Pathol*, 20:753-757, 1989.

Theodoropoulos TJ, Pappolla MA, Goussis OS, Zolman JC, Benson DM: Permanent Alterations in the Hypothalamic-Pituitary-Thyroid Axis in the Rat Following Phenytoin Exposure in Utero. *Hormone Metab Res*, 22:521-523, 1990.

Omar R, Pappolla MA, Saran B: Heat Shock Protein Response in Alcoholic Liver Disease. *Lab Med*, 21:811-814, 1990.

Pappolla MA, et al: Ultrastructural Evidence that Insoluble Microtubules Are a Component of Neurofibrillary Tangles. *Eur Arch Psychiatr Neurol Sci*, 239:314-319, 1990.

Theodoropoulos T, Pappolla MA: Aging of the Neuroendocrine System: Impaired Neuropeptide Control of Thyroid Stimulating Hormone. *Age*, 13:37-38, 1990.

Holland J, Pritchard KA, Pappolla MA, Wolin MS, Rogers NJ, Stemerman MB: Bradykinin Induces Superoxide Anion Release From Human Endothelial Cells. *J Cell Physiol*, 143:21-25, 1990.

Omar R, Pappolla MA, Saran B: Immunocytochemical Detection of the 70 Kd Heat Shock Protein in Alcoholic Liver Disease. *Arch Pathol Lab Med*, 114:589-92, 1990.

Pappolla MA, Omar RA, Theodoropoulos TJ: Two Distinct Types of Intraneural Neurofibrillary Tangles Highlighted by Polarized Light after Silver Impregnation With a Modified Bielschowsky Method. *Arch Pathol Lab Med*, 58:131-133, 1991.

Pappolla MA, Omar RA, Vinters HV: Image Analysis Microspectroscopy Shows that Neurons

Participate in the Genesis of a Subset in Early Primitive (Diffuse) Senile Plaques. *Am J Pathol*, 139:599-607, 1991.

Pappolla MA, Omar RA, Kim KS, Robakis NK: Immunohistochemical Evidence of Oxidative Stress in Alzheimer's Disease. *Am J Pathol*, 140:621-628, 1992.

Pappolla MA, Omar RA, Sambamurti K, Anderson JP, Robakis NK: The Genesis of the Senile Plaque. Part II. Further Evidence in Support of its Neuronal Origin. *Am J Pathol*, 141:1151-1159, 1992.

Sambamurti K, Shioi J, Anderson J, Pappolla MA, Robakis NK: The Alzheimer's Amyloid Precursor is Cleaved Intracellularly in PC12 Cells. *J Neurosci Res*, 33:319-329, 1992.

Omar RA, Pappolla MA, Argani I, Davis K: Detection of Acid Phosphatase Activity in Neuritic Plaques and Cerebral Spinal Fluid of Alzheimer Disease Patients. *Arch Pathol Lab Med*, 117:166-169, 1993.

Omar RA, Pappolla MA: Superoxide Anion Induces Heat Shock Protein Synthesis in Cultured Neuroblastoma Cells. *Eur Arch Psychiatry Clin Neurosci*, 242:262-267, 1993.

Brod SA, Khan M, Kerman RH, Pappolla MA: Oral Administration of Human or Murine Alpha Interferon Suppresses relapses and Modifies Adoptive Transfer in EAE. *J Neuroimmunol*, 58:61-69, 1995.

Lindsey JW, Pappolla MA, Steinman L: Reinduction of Autoimmune Encephalomyelitis in Mice. *Cell Immunol*, 162:235-240, 1995.

Pappolla MA, Sambamurti K, Efthimiopoulos S, Refolo LM, Omar RA, Robakis NK: Heat-Shock Induces Abnormalities in the Cellular Distribution of APP and APP fusion proteins. *Neurosci Lett*, 192:105-108, 1995.

Vriesendorp FJ, Flynn R, Pappolla MA, Koski C: Complement Depletion Affects Demyelination and Inflammation in Experimental Allergic Neuritis. *J Neuroimmunol*, 58:157-165, 1995.

Refolo LM, Sambamurti K, Efthimiopoulos S, Pappolla MA, Robakis NK: Evidence that Secretase Cleavage of the Cell Surface Amyloid Precursor Protein Occurs after Normal Endocytic Internalization. *J Neurosci Res*, 40:694-706, 1995.

Austin SG, Pappolla MA, Dimachkie M, Vriesendorp FG: A Confusing Case of Miyoshi Distal Myopathy. *Muscle Nerve*, 18:922-923, 1995.

Caster JC, Shetlar DJ, Pappolla MA, Yee RW: Microscopic Polyangiitis with Ocular Involvement. *Arch Ophthalmol*, 114:346-348, 1996.

Pappolla MA, Omar RA, Sambamurti K: The Heat-Shock/Oxidative Stress Connection. Relevance to Alzheimer's Disease. *Mol Chem Neuropathol*, 28:21-34, 1996.

Vriesendorp FJ, Flynn R, Khan M, Pappolla MA, Brod S: Oral Administration of Type I Interferon Modulates the Course of Experimental Allergic Neuritis. *Autoimmunity*, 24:157-165, 1996.

Pappolla MA, Sos M, Omar RA, Bick RJ, Hickson-Bick DLM, Reiter RJ, Efthimiopoulos S, Robakis NK: Melatonin Prevents Death of Neuroblastoma Cells Exposed to the Alzheimer Amyloid Peptide. *J Neurosci*, 17:1683-1690, 1997.

Vriesendorp FJ, Flynn RE, Pappolla MA, Koski CL: Soluble Complement Receptor 1 (sCR1) is not as Effective as Cobra Venom Factor in the Treatment of Experimental Allergic Neuritis. *Int J Neurosci*, 92:287-298, 1997.

Bozner, P., Grishko, V., LeDoux, S.P., Wilson, G.L., Chyan, Y-J, Pappolla, MA: The amyloid β protein induces oxidative damage of mitochondrial DNA. *J Neuropath Exp Neurol*, 56:1356-1362, 1997.

Reiter RJ, Guerrero JM, Escames G, Pappolla MA, Acuna-Castroviejo D: Prophylactic actions of melatonin in Oxidative Neurotoxicity. *Ann NY Acad Sci*, 825:70-78, 1997.

Vriesendorp FJ, Flynn RE, Malone MR, Pappolla MA: Systemic Complement Depletion Reduces Inflammation and Demyelination in Adoptive Transfer Experimental Allergic Neuritis. *Acta Neuropathol*, 95:297-301, 1998.

Pappolla MA, Bozner P, Soto C, Shao H, Robakis NK, Zagorski M, Frangione B, Ghiso J: Inhibition of Alzheimer β -Fibrillogenesis by Melatonin. *J Biol Chem*, 273:7185-7188, 1998.

Pappolla MA, Chyan Y-J, Omar RA, Hsiao K, Perry G, Smith MA, Bozner P: Evidence of oxidative Stress and *in Vivo* Neurotoxicity of β -Amyloid in a Transgenic Mouse Model of Alzheimer's Disease. *Am J Pathol*, 152:871-877, 1998.

Smith MA, Hirai K, Hsiao K, Pappolla MA, Harris LR, Perry G: Amyloid- β Deposition in Alzheimer Transgenic Mice is Associated with Oxidative Stress. *J Neurochem*, 70:2212-2215, 1998.

Brod SA, Malone M, Darcan S, Pappolla MA, Nelson L: Ingested Interferon Alpha Suppresses type I Diabetes in Non-obese Diabetic Mice. *Diabetologia*, 41:1227-32, 1998.

Poeggeler B, Pappolla MA, Hardeland R, Rassoulpour A, Hodkings PS, Guidetti P, Schwarcz R: Indole-3-propionic Acid: A Potent Hydroxyl Radical Scavenger in Rat Brain. *Brain Research*, 9:382-383, 1999.

Nunomura A, Perry G, Pappolla MA, Wade R, Hirai K, Chiba S, Smith MA: RNA Oxidation is a Prominent Feature of Vulnerable Neurons in Alzheimer Disease. *J Neuroscience*, 15:1959-1964, 1999.

Pappolla MA, Chyan Y-J, Poeggeler B, Bozner P, Ghiso J, LeDoux SP, Wilson GL: A β mediated

Oxidative Damage of Mitochondrial DNA. Prevention by Melatonin. *J Pineal Res*, 27:226-229, 1999.

Omar RA, Chyan Y-J, Andorn AC, Poeggeler B, Robakis NK, Pappolla MA: Increased Expression but Reduced Activity of Antioxidant Enzymes in Alzheimer's Disease. *J Alz Dis*, 1:139-145, 1999.

Chyan Y-J, Poeggeler B, Omar RA, Chain DG, Frangione B, Ghiso J, Pappolla MA: Potent Neuroprotective Properties Against the Alzheimer Beta-amyloid by an Endogenous Melatonin-Related Indole Structure, Indole-3-propionic acid. *J Biol Chem*, 31:21937-21942, 1999.

Refolo LM, Wang R, Tint S, Sambamurti, Malester BT, Francois JL, Duff K, Pappolla MA: Hypercholesterolemia Accelerates Amyloid Pathology in a Transgenic Mouse Model of Alzheimer's Amyloidosis. *Neurobiol Dis*, 7:321-331, 2000.

Nunomura A, Perry G, Pappolla M, Friedland RP, Hirai K, Chiba S, Smith MA: Neuronal Oxidative Stress Precedes Amyloid-beta Deposition in Down's Syndrome. *J Neuropathol Exp Neurol*, 59:1011-1017, 2000.

Pappolla, MA, Chyan, Y-J, Poeggeler, B, Frangione, B, Wilson, G, Ghiso, J, Reiter, RJ: An assessment of the antioxidant and antiamyloidogenic properties of melatonin: implications for Alzheimer's disease. *J Neural Transm*, 107: 203-231, 2000 (review).

Pappolla, MA, Ogden M: Oxidative Stress and the Amyloid Conundrum. What is the Connection? *J Alzheimer's Dis*, 2:79-82, 2000.

Sangerman J, Killilea A, Chronister R, Pappolla MA, and Goodman SR: alpha-Spectrins are the Major Ubiquitinated Proteins in Rat Hippocampal Neurons and Components of Ubiquitinated Inclusions in Neurodegenerative Disorders. *Brain Res Bull*, 54:405-11, 2001.

Pappolla, MA: Amyloid Deposition in Diffuse Plaques May or May Not Start at the Neuronal Cell Surface Membrane. *J Neuropathol Exp Neurol*, 60:105, 2001 (Letter).

Pappolla MA, Omar RA, Chan Y-J, Ghiso J, Hsiao K, Bozner P, Perry G, Smith MA, and Cruz-Sanchez F. Induction of NADPH Cytochrome P450 Reductase by the Alzheimer β -protein. Amyloid as a "Foreign Body." *J Neurochem*, 78:121-128, 2001.

Andorn AC, Pappolla MA. Catecholamines Inhibit Lipid Peroxidation in Young, Aged, and Alzheimer's Disease Brain. *Free Radic Biol Med*, 31:315-20, 2001.

Refolo LM, Pappolla MA, Malester BT, Francois JL, Bryant-Thomas T, Wang R, Tint GS, Sambamurti K, Duff KE: A Cholesterol Lowering Drug Reduces beta-amyloid Deposition in a Transgenic Mouse Model of Alzheimer's Amyloidosis. *Neurobiol Dis*, 8:890-899, 2001.

Poeggeler B, Miravalle L, Zagorski MG, Wisniewski T, Chyan Y-J, Zhang Y, Shao H, Bryant-Thomas T, Vidal R, Frangione B, Ghiso J, Pappolla MA: Melatonin Reverses the Profibrillogenic Activity of Apolipoprotein E4 on the Alzheimer Amyloid A β Peptide. *Biochemistry*, 40:14995-

15001, 2001.

Pappolla MA, Simovich MJ, Bryant-Thomas T, Chyan Y-J, Poeggeler B, Duvocovich M, Bick R, Smith MA, Cruz-Sanchez F, Perry G: The Neuroprotective Activities of Melatonin Against the Alzheimer β -protein are not Mediated by Melatonin Membrane Receptors. *J Pineal Res*, 32:135-142, 2002.

Bendheim PE, Poeggeler B, Neria E, Ziv V, Pappolla MA, Chain DG: Development of Indole-3-Propionic Acid for Alzheimer's Disease. *J Mol Neurosci*, 19:213-7, 2002.

Bozner P, Wilson GL, Druzhyna NM, Bryant-Thomas TK, LeDoux SP, Wilson GL, Pappolla MA. Deficiency of chaperonin 60 in Down's syndrome. *J Alzheimers Dis*. 4:479-86, 2002.

Matsubara E, Bryant-Thomas T, Pacheco Quinto J, Henry TL, Poeggeler B, Herbert D, Cruz-Sanchez F, Chyan YJ, Smith MA, Perry G, Shoji M, Abe K, Leone A, Grundke-Ikbal I, Wilson GL, Ghiso J, Williams C, Refolo LM, Pappolla MA. Melatonin increases survival and inhibits oxidative and amyloid pathology in a transgenic model of Alzheimer's disease. *J Neurochem* 85:1101-1108, 2003.

Y.Z. Wadghiri, E.M. Sigurdsson, M. Sadowski, J.L.Elliott, Y. Li, H. Scholtzova, C.Y. Tang, G. Aguinaldo, M. Pappolla, K. Duff, T. Wisniewski, D.H. Turnbull. Detection of Alzheimer's amyloid in transgenic mice using magnetic resonance microimaging. *Magn Reson Med*. 50:293-302, 2003.

Pappolla MA, Bryant-Thomas TK, Herbert D, Pacheco J, Fabra Garcia M, Manjon M, Girones X, Henry TL, Matsubara E, Zambon D, Wolozin B, Petanceska SS, Sano M, Cruz-Sanchez FF, Thal LJ, Refolo LM: Hypercholesterolemia is an Early Risk Factor for the Development of Alzheimer Amyloid Pathology. *Neurology*. 61:199-205, 2003.

Petanceska SS, DeRosa S, Sharma A, Diaz N, Duff K, Tint SG, Refolo LM, Pappolla M. Changes in apolipoprotein E expression in response to dietary and pharmacological modulation of cholesterol. *J Mol Neurosci*. 2003;20(3):395-406.

Marlow L, Cain M, Pappolla MA, Sambamurti K. Beta-secretase processing of the Alzheimer's amyloid protein precursor (APP). *J Mol Neurosci*. 2003;20(3):233-9.

Lukiw WJ, Pappolla M, Pelaez RP, Bazan NG. Alzheimer's disease-a dysfunction in cholesterol and lipid metabolism. *Cell Mol Neurobiol*. 2005 Jun;25(3-4):475-83.

Poeggeler B, Durand G, Polidori A, Pappolla MA, Vega-Naredo I, Coto-Montes A, Boker J, Hardeland R, Pucci B. Mitochondrial medicine: neuroprotection and life extension by the new amphiphilic nitron LPBNAH acting as a highly potent antioxidant agent. *J Neurochem*. 2005 Nov;95(4):962-73. Epub 2005 Aug 31.

Pacheco-Quinto J, Rodriguez de Turco EB, Derosa S, Howard A, Cruz-Sanchez F, Sambamurti K, Refolo L, Petanceska S, Pappolla MA. Hyperhomocysteinemic Alzheimer's mouse

model of amyloidosis shows increased brain amyloid beta peptide levels. *Neurobiol Dis.* 2006

Casadesus G, Webber KM, Atwood CS, Pappolla MA, Perry G, Bowen RL, Smith MA. Luteinizing hormone modulates cognition and amyloid-beta deposition in Alzheimer APP transgenic mice. *Biochim Biophys Acta.* 2006 Apr;1762(4):447-52. Epub 2006 Feb 13.

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Durand G, Poeggeler B, Boker J, Raynal S, Polidori A, Pappolla MA, Hardeland R, Pucci B. Fine-Tuning the Amphiphilicity: A Crucial Parameter in the Design of Potent alpha-Phenyl-N-tert-butylnitron Analogues. *J Med Chem.* 2007

Matsubara E, Tsuchiya A, Minami N, Nishino I, Pappolla MA, Shoji M, Abe K. A unique case of limb-girdle muscular dystrophy type 2A carrying novel compound heterozygous mutations in the human CAPN3 gene. *Eur J Neurol.* 2007;14:819-22.

Venugopal C, Pappolla MA, Sambamurti K.: Insulysin cleaves the APP cytoplasmic fragment at multiple sites. *Neurochem Res.* 2007;32:2225-34. 2007.

B. OTHER:

INVITED ARTICLES, REVIEWS AND BOOK CHAPTERS:

Pappolla MA, Omar RA, Saran B, Theodoropoulos TJ: Heat Shock Proteins in Dementia and Degenerative Nervous System Disorders. *Mental Ill Neurol Dis* 4:12-13, 1991.

Sambamurti K, Refolo LM, Shioi J, Pappolla MA, Robakis NK: The Alzheimer's Amyloid Precursor is Cleaved Intracellularly in the Tran-Golgi Network or in a Post-Golgi Compartment. *Ann New York Acad Sci.: Proteases and Protease Inhibitors in Alzheimer's Disease Pathogenesis.* Eds. Banner, C.D.B. and Nixon, R.A. Vol. 674, p 118-128, 1992.

Robakis NK, Pappolla MA: Oxygen Free Radicals and Amyloidosis in Alzheimer's Disease: Is There a Connection? Editorial. *Neurobiol Aging* 15:457-459, 1994.

Pappolla MA, Robakis NK: Neuropathology and Molecular Biology of Alzheimer's Disease in Perspectives on Behavioral Medicine. Stein M, Baum A Eds. Lawrence Erlbaum Associates Publishers, New Jersey, 1995.

Pappolla MA, Sos M, Bick RJ, Omar RA, Hickson-Bick DLM, Reiter RJ, Efthimiopoulos S, Sambamurti K, Robakis NK: Oxidative Damage and Cell Death Induced by an Amyloid Peptide Fragment is Completely Prevented by Melatonin. *Alzheimer's Disease: Biology, Diagnosis and Therapeutics*, Edited by K. Iqbal, B. Winblad, T. Nisimura, M. Takeda and H.M. Wisniewski, John Wiley & Sons Ltd. pp 741-749, 1997.

Pappolla M, Bozner P, Zagorski M, Shao H, Frangione B, Ghiso J: Inhibition of Alzheimer's Beta Amyloid Fibril Formation. *Emerging Therapeutic Targets*. 1:77-79, 1997.

Pappolla MA, Bozner P, Soto C, Shao H, Brewer G, Robakis NK, Zagorski M, Frangione B, Ghiso J: Dual Anti-amyloidogenic and Anti-oxidant Properties of Melatonin. A New Therapy for Alzheimer's Disease? pg 661-669, 1999. In *Alzheimer's Disease: Biology, Diagnosis and Therapeutics*, Edited by K. Iqbal, B. Winblad, and H.M. Wisniewski, John Wiley & Sons Ltd.

Pappolla MA, Ogden-Epker M.: Oxidative Stress and the Amyloid Conundrum. What is the Connection? *J Alzheimers Dis*. 2:79-82, 2000.

Pappolla MA: Molecular Biology and Neuropathology of Alzheimer's Disease. IN: F. Cruz-Sanchez (Ed.) *Neuropathologia Diagnostico Y Clinica*. Edimsa 2000.

M. A. Pappolla, Y-J Chyan, G. Perry, M.A. Smith: The role of Transgenic models for the Study of Oxidative Neurotoxicity in Alzheimer's Disease. In *Free Radicals in Brain Pathophysiology*. Poli G and Cadenas E. Eds. 2000.

Pappolla MA, Smith MA, Bryant-Thomas T, Bazan N, Petanceska S, Perry G, Thal LJ, Sano M, Refolo LM: Cholesterol, Oxidative Stress and Alzheimer's disease. *Expanding the Horizons of Pathogenesis*. *Free Radic Biol Med*, 33:173-81, 2002 (review).

Petanceska SS, DeRosa S, Olm V, Diaz N, Sharma A, Thomas-Bryant T, Duff K, Pappolla M, Refolo LM. Statin therapy for Alzheimer's disease: will it work? *J Mol Neurosci*, 19:155-61, 2002.

Reiter RJ, Tan DX, Pappolla MA. Melatonin Relieves the Neural Oxidative Burden that Contributes to Dementias. *Ann N Y Acad Sci*. 2004 Dec;1035:179-96.

OTHER PROFESSIONAL COMMUNICATIONS:

Invited Professorships and Seminars

Immunologic Mechanisms in Brain Aging, Invited Speaker, Cornell University, New York Hospital, New York, New York, 1985.

The Aging Brain, Invited Speaker , University of Iowa, Iowa City, Iowa, 1985.

The Aging Brain, New York Medical college, Invited Speaker, Valhalla, New York, 1986.

Molecular Pathology of Alzheimer's Disease, New York Medical College, Invited Speaker, Valhalla, New York, 1989.

Alzheimer's Disease: Morphological Counterparts of Biological Phenomena, Baylor College of Medicine, Invited Speaker, Houston, Texas, 1990.

Alzheimer's Disease: Morphological Counterparts of Biological Phenomena, Invited Speaker, University of Mississippi Medical Center, Jackson, Mississippi.

The Aging Brain and Amyloidogenesis: Neuronal Versus Vascular Hypothesis, Invited Speaker, University of Alabama, Birmingham, Alabama, 1991.

The Aging Brain and Amyloidogenesis: Neuronal Versus Vascular Hypothesis, Invited Speaker, Rockefeller University, New York, 1991.

Short Course on Peripheral Nerve Biopsy, Latin American Congress of Pathology, Invited Faculty/Course Director, University of Buenos Aires, Argentina, 1991.

Co-organizer, Second International Neuropathology Exchange, 1992.

Molecular Biology of Alzheimer's Disease, Invited Speaker, Second International Neuropathology Exchange, 1992. Fluminense University, Niteroi, Brazil.

Molecular Biology of Alzheimer's Disease, University of Buenos Aires, Buenos Aires, Argentina.

Molecular Pathology of Neurodegenerative Disorders. Argentina Congress of Pathology, Invited Speaker, Mar Del Plata, Argentina, 1992.

Molecular Biology of Alzheimer's Disease, Invited Speaker, University of Buenos Aires Affiliated Hospitals, (R Mejia Hospital), 1992.

Molecular Biology of Alzheimer's Disease, Invited Speaker, New York Medical College, Valhalla, New York, 1993.

Molecular Biology of Alzheimer's Disease, Invited Speaker, Louisiana State University Medical Center at Lafayette, Louisiana, 1993.

Neuropathology of Epilepsy, Argentine Congress of Pathology-Cordoba, Invited Speaker, Argentina, 1994.

The Oxidative Stress/Heat Shock Connection. Relevance to Alzheimer's Disease. Neurodegenerative Disorders. Common Molecular Mechanisms. Decade of the Brain Midpoint. Invited Speaker , Ocho Rios, Jamaica, 1995.

The Oxidative Stress/Heat Shock Connection. Relevance to Alzheimer's Disease. Invited Speaker, New York University, New York, 1995.

Grading of Central Nervous System Tumors, Argentine Congress of Pathology. Invited Speaker, Buenos Aires, Argentina, 1995.

Melatonin and its possible role in Alzheimer's disease. The Gerontological Society of America 49th Annual Scientific Meeting. Invited Symposium Speaker, Washington, DC, 1996.

Role of Melatonin on Oxidative Neurotoxicity, New York University, Invited Speaker, Department of Pathology, New York, New York, 1997.

Role of Melatonin on Oxidative Neurotoxicity, Mount Sinai Medical School, Invited Groundrounds Speaker. Fishberg Center for Neurobiology, New York, New York, 1997.

Indole Analogues as Potential Therapeutic Agents in Neurodegenerative Disease, Harvard Club-New York University, Invited Speaker. New York, New York, March 1998.

The oxidative stress hypothesis of Alzheimer's disease, Invited speaker, 1999 European Congress of Neuropathology, Barcelona, Spain.

The role of melatonin in Alzheimer's disease. Invited speaker, 1999 European Congress of Neuropathology, Barcelona, Spain.

Biological Bases of Current Therapeutic Trends in Alzheimer's disease. Invited Speaker, Mobile Neurological Society. Mobile, Alabama. May 2000.

Hypercholesterolemia Accelerates Amyloid Pathology in a Transgenic Mouse Model of Alzheimer's Amyloidosis. 2000 Annual Meeting of the American Association of Neuropathologists. Atlanta, GA, June 10, 2000.

Biological Bases of Current Therapeutic Trends in Alzheimer's Disease. Invited Speaker. University of Miami, School of Medicine. July 11, 2000.

Melatonin Reduces A β Accumulation in a Transgenic Mouse Model of Alzheimer's Disease. Selected presentation for the Hot Topics Symposium of the 2000 World Congress of Alzheimer's Disease, Washington DC, July 13, 2000.

Melatonin Reduces A β Accumulation in a Transgenic Mouse Model of Alzheimer's Disease. Invited Symposium Speaker. 2001 Keystone Symposium on Vascular Pathology and Neurodegenerative Mechanisms in Alzheimer's Disease, Durango, Colorado, January 16-22, 2001.

Biological Bases of Current Therapeutic Trends in Alzheimer's Disease. Invited Ground Rounds speaker. University of Alabama at Birmingham, Birmingham, AL; January, 2001.

Hypercholesterolemia Accelerates Amyloid Pathology In A Transgenic Mouse Model Of Alzheimer's Amyloidosis. Invited speaker, 2001 European Congress of Clinical Investigation, Barcelona, Spain; May 5, 2001.

Hypercholesterolemia is an early risk factor in the development of human amyloid pathology. Symposium Speaker, 31st Annual Meeting of the Society for Neuroscience, San Diego, CA; November 10-15, 2001.

Cholesterol metabolism: A risk factor and potential therapeutic target for Alzheimer's disease.

Invited Symposium Speaker, 8th International Conference on Alzheimer's Disease and Related Disorders, Stockholm, Sweden; July 20-25, 2002.

Cholesterol metabolism, hyperhomocysteinemia and oxidative stress: Novel therapeutic targets for Alzheimer's disease. Invited Symposium Speaker, 9th International Conference on Alzheimer's Disease and Related Disorders, Philadelphia, Pennsylvania; July, 2004.

Charleston Spine Symposium. "Interventional Pain Modalities for Spine Care. A Short Review". Invited Speaker. August 24th, 2007.

C. ABSTRACTS:

Suarez M, Pappolla MA, et al: A Comparative Immunohistochemical Study of Prostatic and Transitional Cell Tumors. *Am J Clin Pathol*, 1983.

Pappolla MA, Chou SM: Unilateral Rhizotomy Prevents Axonal Ballooning of Motoneurons in Iminodipropionitrile Intoxication. *J Neuropath Exp Neurol*, 1984.

Pappolla MA, et al: PAS Stain as an Aid in Identifying Mycobacteria. *Pathologist* 38:607, 1984 (Selected Abstract)

Pappolla MA, et al: The Slow Axonal Transport in Carbon Disulfide Giant Axonopathy. *J Neuropath Exp Neurol* 43:305, 1984.

Pappolla MA, Andorn AC, Chou SM: Serum Protein Antigens within Lewy Bodies in Parkinson's Disease. *Ann Neurol* 18:68, 1985.

Andorn AC, Klemens F, Martello P, Pappolla MA: Human Gamma Globulin and Alpha Globulin Decrease Ligand Binding at Neurotransmitters Receptors. *Proc Soc Neurosci*, 1985.

Andorn AC, Pappolla MA, Haloris A: Blood Brain Barrier Defects and Psychiatric Illness: Serum Protein Interactions with Neurotransmitter Receptors. *Soc Biol Psych*, 1985.

Pappolla MA, Alzofon J: Neurofibrillary Tangles Contain Abnormal Insoluble Microtubules. *Am J Clin Pathol*, 1986.

Pappolla MA, Dudley AW: Colloid Inclusions Bodies in the Substantia Nigra in Parkinson's Disease. *Am J Clin Pathol*, 1986.

Andorn AC, Pappolla MA: Recovery of 5HT₂ Binding Sites in Human Brain Membrane fragments Incubated with 0.1 M Glycine. *Proc Soc Neurosci*, 1987.

Pappolla MA: Neurofilaments and Lewy Bodies of Parkinson's Disease. *College of American Pathologists Today* 1:26, 1987. (Selected Abstract)

Alzofon J, Pappolla MA, Dannies F: Paired Helical Filaments Form Spontaneously in Normal Brain

Tubulin Preparations. *J Neuropathol Exp Neurol*, 1987.

Andorn AC, Pappolla MA: Serum Protein Interactions with Neurotransmitters Receptors: Implications for Alzheimer's Disease. *Alzheimer's Disease and Related Disorders Conference*, Las Vegas, 1988.

Theodoropoulos T, Pappolla MA: Alterations in TRH Control of TSH Secretion in Aging Rats. *The Gerontologist* 28:132A

Andorn AC, Pappolla MA: Blood Brain Barrier and Aging: Recovery of 5HT₂ Binding Sites in Aged Brain. *Soc Biol Psych*, 1988.

Theodoropoulos TJ, Pappolla MA: Differences in Regulation of Pituitary - Thyroid Function between Young and Old Rats. *XIV International Congress of Gerontology*, Acapulco, Mexico, 1988.

Pappolla MA, Saran BM, Omar R: The Presence of Ubiquitinated Conjugates Within Neurofibrillary Tangles and Senile Plaques is an Epiphenomenon. *Am J Clin Pathol* 91:359, 1988.

Pappolla MA, Saran BM, Omar R: The 85 Kd and 70 Kd Heat Shock Proteins are not Detectable in Alzheimer's Disease. *Am J Clin Pathol* 91:359, 1988.

Saran BM, Pappolla MA, Omar R: The Heat Shock Protein Ubiquitin is Increased in "Normal" Aged Brain. *Am J Clin Pathol* 91:359, 1988.

Omar R, Pappolla MA, Saran B: Mallory Bodies in Alcoholic Liver Disease as Evidence of Inhibited Cytoprotective Proteolysis. *Lab Invest* 60:68a, 1989.

Saran B, Pappolla MA, Fortunato L, Theodoropoulos T, Benson D, Omar R: Identification of Ubiquitin in the CSF of Young, Old and Alzheimer's Disease (AD) Patients. *Age* 1989.

Pappolla MA, Omar RA, and Vinters H: Image Analysis Microspectroscopy of Senile Plaques Immunostained with an Anti Beta-Protein Antibody. *Second International Conference on Alzheimer's Disease & Related Disorders*, Toronto, Canada, Abstract # 67, *Neurobiol Aging* 11:269, 1990.

Omar RA, Pappolla MA: Aluminum Potentiates Heat Shock Protein Induction in Neuroblastoma Cells Exposed to Hyperthermia. *II International Conference on Alzheimer's Disease & Related Disorders*, Toronto, Canada, (Abstract) *Neurobiol Aging* 11:282, 1990.

Pappolla MA, Omar RA, Vinter H: Image Analysis Patterns of Amyloid Precursor Distribution in Alzheimer's Disease Suggests a Possible Membrane Defect. *XVIII International Congress of the International Academy of Pathology*, 9th World Congress of Academic and Environmental Pathology, Buenos Aires, Argentina, 1990.

Omar RA, Pappolla MA: Oxygen Free Radicals as Inducers of Heat shock Protein Synthesis in

Cultured Human Neuroblastoma Cells. XVIII International Congress of the International Academy of Pathology, 9th World Congress of Academic and Environmental Pathology, Buenos Aires, Argentina, 1990.

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Omar RA, Pappolla MA: Heat Shock Protein Induction by Oxidative Stress: Relevance to Alzheimer's Disease. *J Neuropathol Exp Neurol* 50:358, 1991.

Pappolla MA, Omar RA: Immunohistochemical Demonstration of Antioxidant Enzymes in Association with Neurofibrillary Pathology. *J Neuropathol Exp Neurol* 50:361, 1991.

Theodoropoulos T, Pappolla MA: The Role of Somatostatin on TSH Secretion in Old Rats. International geriatrics society, Acapulco, Mexico 1991.

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Sambamurti K, McConlogue L, DeWhitt C, Efthimiopoulos S, Pappolla MA, Robakis NK, Refolo LM: Studies On The Role Of Glycosylation On Processing Of The Alzheimer's Amyloid Precursor Protein (APP). Fourth International Conference on Alzheimer's Disease and Related Disorders. *Neurobiol of Aging* 4:S84, 345, 1994.

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Irr W, Sambamurti K, Baumgartner J, Clifton G, Pappolla M: Is Dysembryoplastic Neuro-epithelial Tumor a Precursor to Other Cerebral Neoplasms? XIIth International Congress of Neuropathology. *Brain Pathol* 4:11-20, 1994.

Omar R, Pappolla MA, Sambamuri K: Reduced Brain Antioxidant Enzyme Activities in Alzheimer's Disease XIIth International Congress of Neuropathology. *Brain Pathol* 4:35-41, 1994.

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Vriesendorp FJ, Flynn R, Pappolla MA, Koski C: Complement Depletion Affects Demyelination and Inflammation in Experimental Allergic Neuritis. 1994 Meeting of the Peripheral Nerve Society, Minneapolis, USA.

Austin SA, Pappolla MA, Dimachkie MM, Vriesendorp FJ: A confusing case of Myoshi distal myopathy. *Muscle Nerve* 17:1121, 1994.

Vriesendorp FJ, Flynn R, Pappolla MA, Brod SA: Modification of acute experimental auto-immune neuritis in the Lewis rat by oral administration of type 1 interferons. Peripheral Nerve Society. Ankara, Turkey, October 1995.

Vriesendorp FJ, Flynn R, Toth C, Pappolla MA, Koski CL: Treatment of Experimental Allergic Neuritis with soluble Complement Receptor. Peripheral Nerve Society, 1995.

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Omar RA, Smith M, Perry G, Pappolla MA: Immunohistochemical Evidence of Oxidative Stress in Parkinson's Disease. *J Neuropathol Exp Neurol* 55:634, 1996.

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Pappolla MA, Soto C, Bozner P, Frangione B, Ghiso J: Melatonin Prevents Formation of beta-Sheets and Fibrils of beta-amyloid. A New Therapy for Alzheimer's Disease? *J Neuropathol Exp Neurol* 56:575, 1997.

Pappolla MA, Soto C, Bozner P, Frangione B, Ghiso J: Disruption of beta-Fibrillogenesis by the Pineal Hormone Melatonin. *Soc Neurosci*, New Orleans, LA, 1997.

Pappolla MA, Soto C, Bozner P, Frangione B, Ghiso J: Melatonin Inhibits Formation of beta Peptide and Its Assembly into Amyloid Fibrils. *Soc Neurosci*, New Orleans, LA, 1997.

Zaborski MG, Shao H, Ma K, Yang M, Pappolla MA: The Solution Structures of the Amyloid beta-(1-40) and beta-(1-42) Peptides and the Utility of MNR in the Design of β -Amyloid Inhibitors. *Neurobiology of Aging*, Vol 19, Suppl 2, 1998. Abstract # 181.

Omar R, Bozner P, Chyan Y-J, Hsiao K, Perry G, Smith M, Ghiso J, Pappolla MA: Oxidative Stress in Alzheimer's Disease: A Transgenic Mouse Model. *Neurobiology of Aging*, Vol 19, Suppl 2, 1998. Abstract # 1216.

Pappolla MA, Bozner P, Soto C, Shao H, Zaborski MG, Chyan Y-J, Robakis NK, Frangione B, Ghiso J: Inhibition of Alzheimer β -fibrillogenesis by Melatonin. *Neurobiology of Aging*, Vol 19, Suppl 2, 1998. Abstract # 480.

Pappolla MA, Chyan Y-J, Bozner P, Martin B, Frangione B, Hsiao K, Omar RA, Perry G, Smith MA, Shiso J: NADPH Cytochrome P450 Reductase Mediates Oxidative Stress Induced by the Amyloid Beta Protein. Society for Neuroscience 28th Annual Meeting, Los Angeles, CA, November 1998.

Chyan Y-J, Poeggeler B, Dubocovich M, Bick R, Omar RA, Frangione B, Soto C, Ghiso J, Pappolla MA: Neuroprotective Activity of Melatonin Against Alzheimer β -Amyloid Is Not Mediated By Melatonin Receptors. Society for Neuroscience 28th Annual Meeting, Los Angeles, CA, Nov. 1998.

Bozner P, Chyan Y-J, Hsiao K, Omar R, Perry G, Smith M, Ghiso J, Pappolla MA: Oxidative Stress in a Transgenic Model of Alzheimer's Disease. Society for Neuroscience 28th Annual Meeting, Los Angeles, CA, November 1998.

Theodoropoulos, J Vrioni & M Pappolla: Gonadotropin Releasing Hormone (GnRH) Binding in Lung Cancer, T. Gerontological Society of America, 1998 Meeting. Abstract

MA Pappolla, Y-J Chyan, P Bozner, B Poeggeler, B Frangione, K Hsiao, RA Omar, G Perry, MA Smith, J Ghiso: Induction of NADPH Cytochrome P450 Reductase by Amyloid β Protein: Friend or Foe of Neurons? 1999 Annual Meeting of the American Society of Neuropathologists. Portland, OR J Neuropathol Exp Neurol Abstract # 88.

Poeggeler B, MA Pappolla et al: Direct Scavenging of Carbonate Radicals by Melatonin. Identification of a New Neuroprotective Pathway Against β -amyloid Toxicity. 1999 Annual Meeting of the American Society of Neuropathologists. Portland, OR. J Neuropathol Exp Neurol Abstract # 10.

Chyan Y-C, Poeggeler B, Omar RA, Ghiso J, Pappolla: Neuroprotection by Melatonin Against A β toxicity is not Mediated by Melatonin Receptors. 1999 Annual Meeting of the American Society of Neuropathologists. Portland, OR. J Neuropathol Exp Neurol Abstract # 86.

Refolo LM, Pappolla MA, Wang R, Tint S, Sambamurti, Malester BT, Francois JL, Duff K: Hypercholesterolemia Accelerates Amyloid Pathology in a Transgenic Mouse Model of Alzheimer's Amyloidosis. World Alzheimer's Congress. Washington DC, July 2000. *Neurobiol Disease* May/June 2000, 21:125. Abstract # 566.

Pappolla MA, Poeggeler B, J-Y Chyan, Bryant-Thomas T, Miravalle L: Melatonin Reverses the Pro-Fibrillogenic Activity of Apolipoprotein E. World Alzheimer's Congress. Washington DC, July 2000. *Neurobiol Disease* May/June 2000, 21:188. Abstract # 856.

Zagorski MG, Shao H, Ma K, Yang, Li H, Zeng H, Zhang Y, Pappolla MA: Amyloid A β (1-40) and A β (1-42) Adopt Remarkably Stable, Monomeric, and Extended Structures in Water Solution at

Neutral pH. World Alzheimer's Congress. Washington DC, July 2000. Neurobiol Disease May/June 2000, 21:10. Abstract # 48

Matsubara E, Poeggeler B, Manjon M, Thomas T, Cruz-Sanchez F, Chyan Y-J, Leone A, Shoji M, Buxbaum J, Herbert D, Frangione B, Ghiso J, Pappolla MA: Melatonin Dramatically Inhibits the Time Dependent Elevation of β -amyloid in a Transgenic Mouse Model of Alzheimer's Disease. International Congress of Neuropathology, September 2000.

Wisniewski TM, Wadghiri YZ, Elliott JI, Pappolla MA, Duff K, Turnbull DH, Sigurdsson EM: Detection of Alzheimer's amyloid by magnetic resonance imaging. Society for Neuroscience, November 2001. Abstract # 463.7.

Refolo LM, Petanceska SS, Derosa S, Olm V, La Francois J, Malester B, Bryant-Thomas T, Tint GS, Wang R, Ramabhadran R, Duff KEK, Pappolla MA: Cholesterol metabolism: a potential target for Alzheimer's disease therapy. Society for Neuroscience, November 2001. Abstract # 583.7.

Pappolla MA, Manjon M, Bryant-Thomas T, Girones X, Ross A, Creekmore T, Matsubara E, Duff K, Cruz-Sanchez F, Refolo L: Hypercholesterolemia is an early risk factor in the development of human amyloid pathology. Society for Neuroscience, November 2001. Abstract # 583.10.

Refolo, L, Petanceska, S, DeRosa, S, Diaz, N, Bryant-Thomas, T, Sharma, A, Manjon, M, Cruz-Sanchez, F, Pappolla, M; Cholesterol metabolism: A risk factor and potential therapeutic target for Alzheimer's disease; 8th International Conference on Alzheimer's Disease and Related Disorders; 2002; Abstract # 551.

Sigurdsson, EM, Wadghiri, YZ, Li, Q, Tang, CY, Aguinaldo, JG, Duff, K, Pappolla, M, Elliott, JI, Watanabe, M, Scholtzova, H, Turnbull, DH, Wisniewski, T; In vivo detection of Alzheimer's amyloid by magnetic resonance imaging; 8th International Conference on Alzheimer's Disease and Related Disorders; 2002; Abstract # 1307.

Sambamurti K, Venugopal C, Suram A, Pappolla M, Rohrer B, Annamalai P, (2007) Amyloid Precursor Protein Metabolism in Retinal Degeneration. Annual ARVO meeting, FT. Lauderdale, FL. 26/B135

Venugopal C, Haugabook S, Canet-Aviles R, Suram A, Pappolla M, Sambamurti K. (2007) Common mechanism of neurodegeneration: role of Alzheimer's APP in light-induced retinal degeneration. 37th annual meeting of the Society for Neuroscience 885.10

Sambamurti K, Venugopal C, Greig N, Pappolla M, Rohrer B, Prakasam A (2007) Protein misprocessing in Neurodegeneration Silver Jubilee Conference of Indian Academy of Neurosciences Dec 2007, Varanasi

Sambamurti K, Parkasam A, Venugopal, C, Jayachandran AD, Rao KS, Lahiri DK, Greig NH, Pappolla MA, Zhou Y (2008) Isoprenoids Phenocopy Familial AD Mutations And Regulate Gamma Secretase The Alzheimer's Association International Conference on Alzheimer's Disease (ICAD) McCormick Place, Chicago, Ill.

Sambamurti K, Pappolla MA, Granholm A-C, A. Prakasam A. (2008) Alzheimer's Amyloid Protein Precursor and Neurotrophins in Age Related Retinal Degeneration. Annual ARVO meeting, FT. Lauderdale, FL. 3421/A393.

Prakasam A, Pappolla MA, Rohrer B, Sambamurti K. Changes in the Alzheimer's Amyloid Protein Precursor Metabolism During Light-Induced Retinal Degeneration. Annual ARVO meeting, FT. Lauderdale, FL. 4410/D841

Pappolla MA, Sambamurti K, Pacheco J, et al: Cognitive Impairment in Familial Heterozygous Hypercholesterolemia. World Congress of Alzheimer's Congress. Chicago July 2008.

PUBLICATIONS - IN PRESS:

Sambamurti K, Pappolla MA, Jagannatha Rao J. (2008) Value in development of a TAPIR-like mouse monoclonal antibody to A β . Alz Dis. In press

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PUBLICATIONS - SUBMITTED: Several papers in preparation on hold due to Intellectual Protection issues.