CURRICULUM VITAE

Name Greer Maréchal Murphy, Jr.

Address P.O. Box 20246

Stanford, CA 94309

Education M.D., School of Medicine, University of California,

Davis, 1986.

Ph.D., University of California, Berkeley, 1984 (Neuroanatomy and Biological Anthropology).

B.A., With Distinction, The George Washington University

Washington, D. C., 1974 (Psychology).

Honors David A. Mrazek Memorial Award in Psychiatric

Pharmacogenomics, American Psychiatric Association, 2019

Fellow, America Society for Addiction Medicine, 2020

Fellow, American Psychiatric Association, 2017

Best Doctors in America, 2013-present.

Knight Fellows Favorite Professor, Stanford University, 2012

Junior Investigator Award, American Association for

Geriatric Psychiatry, 1997.

American College of Neuropsychopharmacology Travel

Award, 1991.

Resident Research Award, Northern California

Psychiatric Society, 1991.

Charles Dana Foundation Neuroscience

Fellow, 1988-92.

Alpha Omega Alpha, 1986 (elected in junior year).

Award for Excellence in Psychiatry, University

of California, Davis, 1986.

Outstanding Medical Student Award, Central California Psychiatric Association, 1986.
G. Milton Shy Award, American Academy of

Neurology, 1983.

Phi Beta Kappa, 1974.

Awards Continuous NIH scientific grant awardee, 1995-2012.

Positions Held

Level 5 Psychiatry and Addiction Medicine, P.C. Solo Practice of Psychiatry, Geriatric Psychiatry, Addiction Medicine, Lifestyle Medicine. Palo Alto, CA. 6/22-present

Staff Psychiatrist, Outpatient and Telemedicine, Department of Veterans Affairs Health Care System, Palo Alto, CA (MPD 170A). 5/16-10/22.

Staff Psychiatrist, Outpatient, Residential, Partial Hospitalization, and Telemedicine, Momentum for Health, La Selva Group, Palo Alto and San Jose, CA. 5/16-11/21.

Professor, Emeritus.
Department of Psychiatry and Behavioral Sciences,
Stanford University School of Medicine,
2/16-present.

Professor, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, 1/07-1/16 (with tenure).

Associate Professor, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, 7/00-12/06 (with tenure).

Assistant Professor, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, 8/93-6/00.

Assistant Professor (Acting), Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine. 7/92-7/93.

Geriatric Psychiatry Fellow, Palo Alto VA Medical Center/Stanford University. 7/91-6/92.

Dana Foundation Neuroscience Fellow Stanford University School of Medicine, 7/88 – 6/92 Mentor: Lawrence F. Eng, Ph.D. Area of study: Molecular Neuroscience

Resident, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine. 7/88-6/91.

Rotating Internship, Stanford University Medical Center. 6/87-6/88.

Postdoctoral Researcher, Department of Pathology (Neuropathology), School of Medicine, University of California, Davis. 1/87-5/87.

Research Assistant, Adult Psychiatry Branch, National Institute of Mental Health. 12/74-7/76.

Scientific Review and Service

CDIN Study Section, NIH, 2003-2004.

Ad-hoc reviewer, Alzheimer's Association, 1994-present.

Ad-hoc reviewer, Veterans Affairs Medical Research, 1998-present.

Reviewer, California Alzheimer's Research Program, 1995-2000, 2007.

Ad-hoc member, Medical and Scientific Advisory Board, Alzheimer's Association, 1995.

Associate Editor, Journal of Alzheimer's Disease, 2005-2006.

Editorial Board, Journal of Neuroinflammation 2008-present.

Reviewer for American Journal of Psychiatry, Neurology, Journal of Neuroscience Research, Neurochemical Research, Glia, Neurodegeneration, American Journal of Pathology, Molecular and Chemical Neuropathology, Neurobiology of Aging, Neurobiology of Disease, Neuropsychopharmacology, International Journal of Cancer, PNAS, Archives of General Psychiatry, Journal of Psychiatric Research, Biological Psychiatry, Journal of Psychiatric Genetics, Journal of Affective Disorders, Brain Research, Pharmacogenetics, Journal of Neurochemistry, American Journal of Medical Genetics, Clinical Chemistry, Journal of Neuroscience, International Journal of Neuropsychopharmacology, Nicotine and Tobacco Research, others

Expert Advisory Panel to NIMH Director: New Research Directions in Geriatric Psychiatry: Pharmacogenetics. 3/03.

NIMH Strategic Planning Committee, Pharmacogenetics of Mood Disorders, 2001.

Expert Panel: Genetics, Response and Cognitive Enhancers. Implications for Alzheimer's Disease. APA/NIMH/NIA Conference, 12/00.

Memberships

American Medical Association
American Psychiatric Association (Fellow)
American Association for Geriatric Psychiatry
American Society for Addiction Medicine (Fellow)

Professional Certification

Diplomate American Board of Psychiatry and Neurology, 1993. Certificate No. 37372 (valid indefinitely).

Certification in Geriatric Psychiatry, American Board of Psychiatry and Neurology, 1994-present, Certificate No. 1118 (currently in compliance with continuous MOC).

Certification in Addiction Medicine, American Board of Preventive Medicine, 2018. Certificate No. 61-0253.

Certification in Lifestyle Medicine, American Board of Lifestyle Medicine, December 2024.

California Medical License G64130 (active)
Maryland Medical License D80443 (active)
District of Columbia Medical License MD043650 (active)
Virginia Medical License 0101259384 (active)
Hawaii Medical License 21231 (active)

County-appointed ECT consultant, Santa Clara County, California 1994-present.

DATA 2000 waiver to prescribe Buprenorphine Substance Abuse and Mental Health Services Administration. 2016-present

Patient Care

Level 5 Psychiatry and Addiction Medicine, P.C. Outpatient and Telemedicine Psychiatry, Addiction Medicine, Lifestyle Medicine, Palo Alto, CA, 6/22-present.

Outpatient and Telemedicine Psychiatry and Addiction Medicine, Department of Veterans Affairs Health Care System, Palo Alto, CA, 5/16-10/22

Outpatient, Residential, Partial Hospitalization, and Telemedicine Psychiatry and Addiction Medicine, Momentum for Mental Health, 5/16-11/21

Attending Physician, Inpatient Psychiatry (Locked Acute Care Unit, Medical Psychiatry Service, and Geriatric Psychiatry Service). Stanford University Medical Center. 1992-2017.

On-call Attending Physician, hospital-wide psychiatry services, including Emergency Department, Stanford University Medical Center. 1992-2017.

Teaching

Directly supervised, on a daily basis, over 200 resident physicians and fellows at Stanford University Medical Center, 1992-2017.

Directly supervised, on a daily basis, over 100 Stanford medical students and medical students from other universities in their 3rd and 4th year psychiatry rotations. 1992-2017.

Advanced Procedural Training

Hands-On TMS Training Symposium. Sponsored by TMS Health Solutions, August 16-19, 2018, San Francisco California.

Publications

Tinklenberg, J., Gillin, J. C., Murphy, G. M., Staub, R., Wyatt, R. J. Phenylethylamine in Rhesus Monkeys. American Journal of Psychiatry, 1978, 135, 576-578.

Tinklenberg, J., Gillin, J. C., Murphy, G. M., Staub, R., Wyatt, R. J. Phenylethyl-

- amine in Rhesus Monkeys: Interactions with alpha-methyl-para-tyrosine and L-DOPA. <u>American Journal of Psychiatry</u>, 1979, 136, 311-313.
- Dill, R. E., Jones, D., Gillin, J. C., and Murphy, G. M. Comparison of Behavioral Effects of Systemic L-Dopa and Intracranial Dopamine in the Mesolimbic Forebrain of Nonhuman Primates. <u>Pharmacology</u>, <u>Biochemistry</u>, <u>and</u> Behavior, 1979, 10, 711-716.
- Dowling, G., Diamond, M., Murphy, G. M., Johnson, R. A Morphological Study of Male Rat Cerebral Cortical Asymmetry. <u>Experimental Neurology</u>, 1982, 75, 51-67.
- Dolhinow, P., Murphy, G. M. Langur Monkey (<u>Presbytis entellus</u>) Development: The First Three Months of Life. <u>Folia Primatologica</u>, 1982, 39, 305-331.
- Greer, E. R., Diamond, M. C., Murphy, G. M. Increased Branching of Basal Pyramidal Neurons in the Occipital Cortex of Homozygous Brattleboro Rats in Standard and Enriched Environmental Conditions: A Golgi Study. Experimental Neurology, 1982, 76, 254-262.
- Diamond, M. C., Murphy, G. M., Akiyama, K, Johnson, R. Morphologic Hippocampal Asymmetry in Male and Female Rats. <u>Experimental Neurology</u>, 1982, 76,553-565.
- Greer, E. R., Diamond, M. C., Murphy, G. M. Correlation Between Water Intake and Dendritic Branching in Homozygous Brattleboro Rats: A Golgi Study. Experimental Neurology, 1982, 78, 15-25.
- Dolhinow, P., Murphy, G. M. Langur Monkey Mother Loss: Profile Analysis with Multivariate Analysis of Variance for Separation Subjects and Controls. <u>Folia</u> Primatologica, 1983, 40, 181-96.
- Diamond, M. C, Scheibel, A. B., Murphy, G. M., Harvey, T. On the Brain of a Scientist: Albert Einstein. <u>Experimental Neurology</u>, 1985, 88, 198-204.
- Murphy, G. M. Volumetric Asymmetry in the Human Striate Cortex. <u>Experimental Neurology</u>, 1985, 88, 288-302.
- Murphy, G. M. The Human Corpus Striatum and Dentate Nucleus. Volumetric Analysis for Hemispheric Asymmetries, Sex Differences, and Aging Changes. <u>Experimental Neurology</u>, 1985, 89, 139-145.
- Murphy, G. M. The Human Medial Amygdaloid Nucleus: No Evidence for Sex Difference in Volume. <u>Brain Research</u>, 1986, 365, 321-324.

- Murphy, G. M., Inger, P., Mark, K., Lin, J., Morrice, W., Gee, C., Gan, S., Korp, B. Volumetric Asymmetry in the Human Amygdaloid Complex. <u>Journal fur Hirnforschung</u>, 1987, 28, 281-289.
- Murphy, G. M. Statistical Critique of Assessing Therapist Success. <u>Archives of General Psychiatry</u>, 1987, 44, 195.
- Lim, K.O., Zipursky, R.B., Murphy, G.M., Pfefferbaum, A. In vivo Quantification of the Limbic System using MRI: Effects of Normal Aging. <u>Psychiatry Research</u>, 1990, 35, 15-26.
- Murphy, G. M., Eng, L. F., Cordell, B., Wang, Y., Ellis, W. G., Meissner L., Tinklenberg, J. Beta Amyloid Precursor Detected in Human Cerebral Cortex. <u>Progress in Neuropsychopharmacology and Biological Psychiatry</u>, 1990, 14, 309-317.
- Murphy, G.M., Eng, L.F., Ellis, W.G., Perry, G., Meissner, L., Tinklenberg, J. Antigenic Profile of Plaques and Neurofibrillary Tangles in the Amygdala in Down's Syndrome: A Comparison with Alzheimer's Disease. <u>Brain Research</u>, 1990, 537, 102-108.
- Murphy, G.M., Ellis, W.G. The Amygdala in Down's Syndrome and Familial Alzheimer's Disease: Four Clinicopathologic Case Reports. <u>Biological Psychiatry</u>, 1991, 30, 92-106.
- Csernansky, J.G., Murphy, G.M., Faustman, W.O. Limbic/Mesolimbic Connections and the Pathogenesis of Schizophrenia. <u>Biological Psychiatry</u>, 1991, 30, 383-400.
- Murphy, G.M., Murphy, E., Greenberg, B., Cordell, B., Eng, L., Ellis, W.G., Forno, L., Salamat, S., Gonzalez-DeWhitt, P., Lowery, D., and Tinklenberg, J. Alzheimer's Disease: ß-amyloid precursor protein expression in plaques varies among cytoarchitectonic areas of the medial temporal lobe. Neuroscience Letters, 1991, 131, 100-104.
- Allen, J.S., Murphy, G.M., Eng, L.F., Stultz, K., Davies, H., Pickford, L., Tinklenberg, J. ß-amyloid precursor protein mRNA in mononuclear blood cells in Alzheimer's disease. <u>Neuroscience Letters</u>, 1991, 132, 109-112.
- Murphy, G.M., Greenberg, B.D., Ellis, W.G., Forno, L.S., Salamat, S., Gonzalez-DeWhitt, P.A., Lowery, D.E., Tinklenberg, J., Eng, L.F. Alzheimer's disease: Beta amyloid precursor protein expression in the nucleus basalis of Meynert. <u>American Journal of Pathology</u>, 1992, 141, 357-361.
- Forno, L.S., Murphy, G.M., Eng, L.F. Lewy bodies in the sympathetic ganglia. <u>Neurodegeneration</u>, 1992, 1, 57-67.

- Murphy, G.M., Ellis, W.G., Lee, Y.L., Stultz, K.E., Shrivastava, R., Tinklenberg, J., Eng, L.F. Astrocytic gliosis in the amygdala in Down's syndrome and Alzheimer's disease. In Yu, A. (ed.): Neuronal-Astrocytic Interactions: Implications for Normal and Pathological CNS Function. Elsevier, Amsterdam, 1992, 475-483.
- Murphy, G.M., Jia, X.-C., Yu, A.C.H., Lee, Y.L., Tinklenberg, J.R., Eng, L.F. Reverse transcription and polymerase chain reaction technique for quanti-fication of mRNA in astrocyte cultures. <u>Journal of Neuroscience Research</u>, 1993, 35, 643-651.
- Murphy, G.M., Forno, L.S., Higgins, L., Scardina, J.M., Eng, L.F., Cordell, B. Development of a monoclonal antibody specific for the carboxyl-terminus of ß-amyoid 1-42 and its Immunohistochemical Reactivity in Alzheimer's Disease and Related Disorders. American Journal of Pathology 144:1082-1088, 1994.
- Zipursky, R, Marsh, L, Lim, K, DeMent, S, Shear, P, Sullivan, E, Murphy, G, Csernansky, J, Pfefferbaum, A. Volumetric MRI assessment of temporal lobe structures in schizophrenia. <u>Biological Psychiatry</u> 35:501-516, 1994.
- Irwin, I., DeLanney, L.E., McNeill, T., Chan, P., Lapchak, P., Forno, L., Murphy, G., DiMonte, D., Sandy, M., Langston, J.W. Aging and the Nigrostriatal Dopamine System: a Non-human Primate Study. <u>Neurodegeneration</u> 3:251-265, 1994.
- Murphy, G.M., Song, Y.S., Ong, E., Lee, Y.L, Schmidt, K., Bocchini V., Eng, L.F. Leukemia inhibitory factor mRNA is expressed by primary cortical astrocyte cultures but not by an immortalized microglial cell line. <u>Neuroscience Letters</u> 184:48-51, 1995.
- Murphy, G.M., Jia, X.-J., Song, Y., Ong, E., Shrivastava, R., Bocchini V., Lee, Y., Eng, L.F. Macrophage Inflammatory Protein 1-alpha Expression in an Immortalized Microglial Cell line and in Cortical Astrocyte Cultures. <u>J Neurosci</u> Res. 40:755-763, 1995.
- Eng, L.F., Lee, Y.L., Murphy, G. M., Yu, A.C.H. A RT-PCR Study of Gene Expression in a mechanical injury model. In Yu, A, Eng, LF, Schulman H, Shooter E (eds.). Gene Expression in the Central Nervous System. <u>Progress in Brain Research</u>. 105:219-230, 1995.
- Murphy, G.M., Tamminga, C.A. Images in Neuroscience: Amyloid Plaques. <u>Am</u>. J. Psychiatry 152:1258, 1995.

- Murphy, G.M., Bitting L., Majewska A., Schmidt K., Song, Y.S., Wood C.R. Expression of interleukin-11 and its encoding mRNA by glioblastoma cells. Neuroscience Letters 196:153-156, 1995.
- Murphy, G.M., Lee, Y.L., Jia, X.-J., Yu, A.C.H., Majewska, A.K., Song, Y.S., Eng, L.F. Tumor necrosis factor alpha and basic fibroblast growth factor decrease glial fibrillary acidic protein and its encoding mRNA in astrocyte cultures and glioblastoma cells. <u>J. Neurochemistry</u> 65:2716-2724, 1995.
- Murphy, G.M. Cognitive Impairment. In Sheikh, J. (ed.) Treating the Elderly. Jossey-Bass, San Francisco, 1996, pp. 163-194.
- Bitting L., Naidu A. Cordell, B., Murphy, G.M. ß-amyloid peptide secretion by a microglial cell line is induced by ß-amyloid-(25-35) and lipopolysaccharide. Journal of Biological Chemistry 271:16084-16089, 1996.
- Higgins, L.S., Murphy, G.M., Forno, L.S. Catalano R. Cordell, B. ß-amyloid and p3 peptides have different immunohistochemicial profiles in Alzheimer's Disease Brain. <u>American Journal of Pathology</u> 149:585-596, 1996
- Murphy GM, Forno LS, Ellis WG, Nochlin D, Levy-Lahad E, Poorkaj P, Bird TD, Jiang Z, Cordell B. Antibodies to presenilin proteins detect neurofibrillary tangles in Alzheimer's disease. <u>American Journal of Pathology</u> 149:1839-1846, 1996.
- Murphy, G.M., Yang, L., Yesavage, J., Tinklenberg, J.R. Rate of Cognitive Decline in Alzheimer's Disease is not Affected by the Alpha-1-antichymotrypsin A allele or the CYP2D6 B mutant. Neuroscience Letters 217:200-202, 1996
- Higaki, J., Murphy, G.M., Cordell, B. Inhibition of ß-amyloid formation by haloperidol: a possible mechanism in reduced frequency of Alzheimer's Disease pathology in schizophrenia. <u>J Neurochemistry</u> 68:333-336, 1997.
- Murphy, G.M. New Developments in the Treatment of Dementia. In Dunner, D. (ed.) Current Psychiatric Therapy II. W.B. Saunders, Philadelphia, 1997, 621-626.
- Murphy G.M., Taylor J., Tinklenberg J.R., Yesavage J.A. The apolipoprotein ϵ 4 allele is associated with increased behavioral disturbance in Alzheimer's disease. <u>Am J Geriatric Psychiatry</u> 5:88-89, 1997.
- Murphy GM, Taylor J, Kraemer HC. Yesavage J, Tinklenberg JR. No association between apolipoprotein E ϵ 4 allele and rate of decline in Alzheimer's disease. <u>American Journal of Psychiatry</u> 154:603-608, 1997.

Murphy, G.M., Sullivan, E.V., Gallagher-Thompson, D., Thompson, L.W., van Duijn, C.M., Forno, L.S., Ellis, W.G., Jagust, W.J., Yesavage, J., Tinklenberg, J.R. No Association between the Alpha 1-antichymotrypsin A allele and Alzheimer's disease. Neurology 48:1313-1316, 1997.

Murphy, G.M., Cordell B. Biology of Alzheimer's Disease. In Nemeroff, C., Schatzberg, A. (eds.), <u>Textbook of Psychopharmacology</u>, 2nd edition. American Psychiatric Press, Washington, D.C, 1998, 629-647.

Murphy G.M, Lim K.O., Wieneke M, Ellis WG, Forno LS, Hoff AL, Nordahl T. No neuropathologic evidence for an increased frequency of Alzheimer's disease among elderly schizophrenics. <u>Biological Psychiatry</u> 43:205-209, 1998

Murphy, G.M., Yang, L, Cordell B. Macrophage Colony Stimulating Factor Augments ß-Amyloid-Induced Interleukin-1, Interleukin-6, and Nitric Oxide Production by Microglial Cells. <u>Journal of Biological Chemistry</u> 273:20967-20971, 1998.

O'Hara R, Yesavage J, Kraemer H, Mauricio M, Friedman LF, Murphy, GM. The APOE ε4 allele is associated with decline on delayed recall performance in community dwelling elderly adults. <u>Journal of the American Geriatrics Society</u> 46:1493-1498, 1998.

Cordell B, Yang L, Naidu A, Bales K, Paul S, Murphy GM. Cytokine communication between neurons and glia and the pathogenesis of Alzheimer's disease. In Patterson P, Kordon C, Christen Y (eds.), <u>Neuro-immune Interactions in Neurologic and Psychiatric Disorders</u>. Springer, Berlin, 1999, 35-46.

Mauricio M, O'Hara R, Yesavage JA, Friedman L, Kraemer HC, Van de Water M, Murphy GM. A longitudinal study of apolipoprotein E genotype and depressive symptoms in community-dwelling older adults. <u>The American Journal of Geriatric Psychiatry</u> 8:196-2000, 2000.

Dodel RC, Du Y, Bales K, Gao F, Eastwood B, Glazier B, Zimmer R, Cordell B, Dolores Gallagher-Thompson D, Thompson LW, Tinklenberg JR, Pfefferbaum A, Sullivan EV, Yesavage J, Gasser T, Farlow M, Murphy GM, Paul SM. The alpha-2 macroglobulin pentanucleotide polymorphism and the risk for sporadic Alzheimer's disease. Neurology 54:438-442, 2000.

Kahle P, Jakowec M, Petzinger GM, Di Monte D, Silverberg GD, Yesavage JA, Tinklenberg JR, Shooter EM, Murphy GM. Combined assessment of tau and neuronal thread protein in Alzheimer's disease cerebrospinal fluid. <u>Neurology</u> 54:1498-1504, 2000.

Murphy GM, Zhao F, Yang L, Cordell, B. Expression of the macrophage colony stimulating factor receptor is increased in the APP^{V717F} transgenic mouse model of Alzheimer's disease. <u>American Journal of Pathology</u> 157:895-904, 2000.

Murphy, GM. Inflammation and the pathophysiology of Alzheimer's disease. <u>Dialogues in Clinical Neuroscience</u> 2:233-239, 2000.

Lue LF, Rydel R, Yang LB, Hampel H, Murphy GM, Brachova L, Yan SD, Walker D, Shen Y, Rogers J. Inflammatory repertoire of Alzheimer's disease and nondemented elderly microglia *in vitro*. <u>Glia</u> 35:72-79, 2001.

Murphy GM, Claassen JD, DeVoss JJ, Pascoe N, Taylor J, Tinklenberg JR, Yesavage JA. Rate of Cognitive Decline in Alzheimer's Disease is Accelerated by the Interleukin-1alpha-889 *1 allele. Neurology 56:1595-7, 2001.

Kadotani H, Kadotani T, Young T, Peppard PE, Finn L, Colrain IM, Murphy GM, Mignot E. Association between apolipoprotein E epsilon4 and sleep-disordered breathing in adults. <u>JAMA</u> 285(22):2888-90, 2001 Jun 13.

Mitrasinovic OM, Perez G, Zhao F, Lee YL, Poon C, Murphy GM. Overexpression of macrophage colony stimulating factor receptor on microglial cells induces an inflammatory response. <u>Journal of Biological Chemistry</u> 276(32):30142-9, 2001.

Suzuki, J., Shen, W., Nelson, B., Patel, S., Veerkamp, J., Selwood, S., Murphy, G., Reaven, E., Kraemer, F. Absense of Cardiac Lipid Accumulation in Transgenic Mice with Heart-Specific, Conditional Overexpression of Hormone-Sensitive Lipase. <u>American Journal of Physiology</u>: <u>Endocrinology and Metabolism</u> 281(4):E857-66, 2001.

Murphy GM, Pollock B, Kirshner BA, Pascoe N, Cheuk W, Mulsant B, Reynolds C. CYP2D6 Genotyping with Oligonucleotide Microarrays and Nortriptyline Concentrations in Geriatric Depression. <u>Neuropsychopharmacology</u> 25:737-43, 2001.

Gallagher-Thompson D, O'Hara R, Simmons A, Kraemer H, Murphy GM. The Apolipoprotein E ε4 Allele Affects the Relationship between Stress and Depression in Caregivers of Alzheimer's Disease Patients. <u>Journal of Geriatric Psychiatry and Neurology</u> 14(3):115-19, 2001.

Claassen, J., Pascoe, N., Schatzberg, A., Murphy, G.M. Rapid Detection of the C-1496G Polymorphism in the CYP2D6 *2 Allele. Clinical Chemistry 47:2153-5, 2001.

Vincent, VAM, Selwood SP, Murphy, GM. Macrophage colony stimulating factor and Amyloid Beta Induce Cytokine and Nitric Oxide Production in Hippocampal Organotypic Cultures. <u>Neurobiology of Aging</u> 23:349-362, 2002.

Suzuki, J., Shen, W.-J., Nelson, B.D., Selwood, S.P., Murphy, G.M., Kanehara, H., Takahashi, S., Oida, K., Miyamori, I., Kraemer, F.B. Cardiac gene expression profile and lipid accumulation in response to starvation. <u>American Journal of Physiology Endocrinol Metab</u> 283:E94-E102, 2002.

Dalma, D, Murphy, GM. Single base pair polymorphisms and their characterization with oligonucleotide microarrays. <u>Psychiatric Genetics</u> 12:97-107, 2002.

Mitrasinovic, O, Murphy, GM. Accelerated Phagocytosis of Amyloid-β by Mouse and Human Microglia Overexpressing the M-CSF Receptor. <u>Journal of Biological Chemistry</u> 277:29889-29896, 2002.

Vincent VAM, DeVoss JJ, Ryan HS, Murphy GM. Analysis of neuronal gene expression with laser capture microdissection. <u>Journal of Neuroscience</u> Research 69:578-586, 2002.

Vincent, V.A.M., Robinson, C.C., Simsek, D., Murphy, G.M. Macrophage colony stimulating factor prevents NMDA-induced neuronal death in hippocampal organotypic cultures. <u>Journal of Neurochemistry</u> 82:1388-1397, 2002

Schatzberg, A, Kremer, C, Rodrigues H, Murphy, GM. Double-blind, randomized comparison of Mirtazapine and Paroxetine in Elderly Depressed Patients. <u>American Journal of Geriatric Psychiatry</u> 10:541-550, 2002.

Tamminga C, Nemeroff CB, Blakely RD, Carter CS, Davis KL, Dingledine R, GormanJ, Grigoriadis D, Henderson D, Innis R, Killen J, Langhren TP, McDonald WM, Murphy,GM, Paul SM, Rudorfer M, Sausville E, Schatzberg A, Scolnick E, Suppes T. Developing novel treatments for mood disorders: Accelerating Discovery. NIMH Strategic Plan for Mood Disorders Committee. <u>Biological Psychiatry</u> 52:589-609, 2002.

Mitrasinovic, O., Vincent, V., Simsek, D., Murphy, G.M. Macrophage colony stimulating factor promotes microglial phagocytosis. <u>Neuroscience Letters</u> 344:185-188, 2003

Mitrasinovic, O.M., Murphy, G.M. Microglial overexpression of the M-CSF receptor augments phagocytosis of opsonized Aβ. Neurobiology of Aging 24:807-815, 2003.

Murphy, GM, Kremer, C, Rodrigues H, Schatzberg, A. The Apolipoprotein E ε4 Allele is a Pharmacogenetic Marker for Antidepressant Efficacy in Cognitively Intact Elderly Patients with Major Depression. <u>Biological Psychiatry</u> 54:665-673, 2003.

Murphy, GM, Kremer, C, Rodrigues H, Schatzberg, A. Pharmacogenetics of Antidepressant Medication Intolerance. <u>American Journal of Psychiatry</u> 160:1830-1835, 2003.

Athwal, H., Murphy, G.M., Chun, S. Amiodarone-Induced Delirium. Am J Geriatr Psychiatry 11:696-697, 2003

Yesavage, JA, Friedman, L, Kraemer H, Tinklenberg JR, Salehi A, Noda A, Taylor JL, O'Hara R, Murphy, GM. Sleep/Wake Disruption in Alzheimer's disease: APOE status and longitudinal course. <u>J Geriatric Psychiatry Neurology</u> 17:20-24, 2004.

Yesavage JA, Sheikh J, Noda A, Murphy G, O'Hara R, Hierholzer R, Battista M, Ashford JW, Kraemer HC, Tinklenberg J. Use of a VA pharmacy database to screen for areas at high risk for disease: Parkinson's disease and exposure to pesticides. J Geriatr Psychiatry Neurol 17:36-8, 2004.

Malhotra, A., Murphy, G.M., Kennedy J. Pharmacogenetics of Psychotropic Drug Response (review) American Journal of Psychiatry 161:780-96, 2004

Mitrasinovic O, Robinson, C, Tenen, DG, Lee YL, Poon, C, Murphy, G.M. Biolistic expression of the macrophage colony stimulating factor receptor in organotypic cultures induces an inflammatory response. <u>Journal of Neuroscience Research</u> 77:420-429, 2004.

Murphy, G.M., Hollander, S.B., Rodrigues, H.E., Kremer, C., Schatzberg, A. Effects of the serotonin transporter promoter polymorphism on mirtazapine and paroxetine efficacy and side effects in geriatric major depression. <u>Archives of General Psychiatry</u> 61:1163-9, 2004.

Wisor, J., Edgar, D., Yesavage, J., Ryan, S., McCormick, C.M., Lapustea, N., Murphy, G.M. Sleep and circadian abnormalities in a transgenic mouse model of Alzheimer's Disease. <u>Neuroscience</u> 131:375-382, 2005.

Murphy, GM, Saravanapavan, P. Cytokines and Neurodegeneration. In: <u>Cytokines and the CNS</u>, Second Edition, edited by R.M. Ransohoff and Etty N. Benveniste. CRC Press, Boca Raton, FL, 2005, pp. 163-191.

Mitrasinovic, O., Grattan, A., Robinson, C, Lapustea, N., Poon, C., Ryan, H., Phong, C, Murphy, GM. Microglia Overexpressing the Macrophage-Colony Stimulating Factor Receptor are Neuroprotective in a Microglial-Hippocampal Organotypic Co-Culture System. <u>Journal of Neuroscience</u> 25:4442-51, 2005.

O'Hara R, Schroder CM, Kraemer HC, Kryla N, Cao C, Miller E, Schatzberg AF, Yesavage JA, Murphy GM. Nocturnal sleep apnea/hypopnea is associated with lower memory performance in APOE epsilon4 carriers. Neurology. 65:642-4, 2005.

Yesavage JA, Sheikh J, Noda A, Murphy G, O'hara R, Hierholzer R, Battista M, Ashford JW, Schneider B, Hoblyn J, Kraemer HC, Tinklenberg J. Spatial test for agricultural pesticide "blow-in" effect on prevalence of Parkinson's disease. <u>J</u> Geriatr Psychiatry Neurol. 19:32-5, 2006.

Killen J, Fortmann S, Murphy, GM, Hayward C, Arredondo, C, Cromp, D, Celio, M, Abe, L, Wang, Y, Schatzberg, A. Extended Treatment with Bupropion SR for Cigarette Smoking Cessation. <u>Journal of Consulting and Clinical Psychology</u>. 74:286-94, 2006.

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Murphy, G.M., Hollander, S.B., Rodrigues, H., Schatzberg, A. Effects of the serotonin transporter promoter polymorphism on paroxetine and mirtazapine efficacy and side effects in geriatric major depression. Platform Presentation at 2nd Annual Pharmacogenetics in Psychiatry Meeting, New York, NY, April 11-12, 2003.

Murphy, G.M. Pharmacogenetics of the Antidepressant Response. Presentation at the 58th Annual convention of the Society of Biological Psychiatry, San Francisco, CA, May 15-17, 2003.

Mitrasinovic O.M., Poon, C., Grattan, A., Rhee, J., Lapustea, N. Murphy, G.M. Macrophage colony stimulating factor is essential for microglial amyloid beta phagocytosis and neuroprotection. Society of Neuroscience, 33rd Annual Meeting, November 8-12, 2003. New Orleans, LA, USA.

Murphy, G. M., Hollander S.B, Rodrigues, H., Schatzberg, A. Pharmacogenetics of the Antidepressant Medication Response in the Elderly. Presentation at Annual Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

Murphy, G.M. Novel pharmacogenetic predictors in geriatric depression. Platform Presentation at 3nd Annual Pharmacogenetics in Psychiatry Meeting, New York, NY, April 16-17, 2004.

Murphy, G.M. Pharmacogenetics in Geriatric Major Depression. XXIVth CINP Congress, Paris, France, June 20-24, 2004.

Mitrasinovic, O.M., Lapustea N, Poon C., Murphy, G.M. Signaling pathways mediating M-CSF receptor induction of microglial cytokine expression, phagocytosis, and neuroprotection. Poster presentation at the 43rd Annual Meeting of the American Society for Cell Biology, December 13-17, 2003, San Francisco, CA, USA.

Mitrasinovic, O.M. Lapustea N., Poon C., Chen A.J., Murphy G.M. Accelerated clearance of Amyloid-β by M-CSF activated microglia is accompanied by

- activation of Src Tyrosine Kinase. Poster presentation at he 9th International Conference on Alzheimer's Disease and Related Disorders, July 17-22, 2004, Philadelphia, Pennsylvania.
- Murphy, GM, Jr., Mitrasinovic O.M., Sullivan, O.M. Microarray Comparison Of gene expression in the hippocampus of aged ApoE3 and E4 transgenic mice. Poster presentation at the 9th International Conference on Alzheimer's Disease and Related Disorders, July 17-22, 2004, Philadelphia, Pennsylvania.
- J. Chuu, B. G. Pollock, M. A. Kirshner, B. H. Mulsant, C. F. Reynolds, III, G. M. Murphy, Jr. The MDR1 C3435T variant but not CYP2D6 genotype affects nortriptyline-induced orthostatic hypotension in geriatric patients. Poster Presentation at the 34th Annual Meeting of the Society for Neuroscience, San Diego, CA, October 23-27, 2004.
- Mitrasinovic O., Lapustea N., Phong, C., Chen, A., Poon C., and Murphy, G.M. Jr. Microglial clearance of amyloid-beta is regulated by the Src tyrosine kinase. Poster Presentation at the 34th Annual Meeting of the Society for Neuroscience, San Diego, CA, October 23-27, 2004.
- Murphy, G.M. Pharmacogenetics. Presentation at the 42nd Annual Meeting of the American College of Psychiatrists, La Jolla, CA, February 23-27, 2005.
- Murphy, G.M. Pharmacogenetics in the Treatment of Major Depression. Presentation at 8th Annual Meeting of the College of Psychiatric and Neurologic Pharmacists, San Diego, CA, March 10-12, 2005.
- Murphy, G.M. Phamacogenetics Update. Stanford Psychopharmacology Symposium, Stanford, CA. March 20, 2005.
- Murphy, G.M. Pharmacogenetic Predictors in Geriatric Major Depression. Grand Rounds presentation, Department of Psychiatry, Hillside Hospital, Long Island Jewish Medical Center, Great Neck, NY. March 23, 2005.
- Murphy, G., Killen, J., Chuu, J., Wang, Y., Fortmann, S. Schatzberg, A.F. Pharmacogenetic Predictors of Smoking Cessation. Fourth Annual Pharmacogenetics in Psychiatry Meeting, New York, NY, April 15-16, 2005.
- Murphy, G.M. Pharmacokinetic and Pharmacodynamic Genetic Predictors of Antidepressant Tolerability and Efficacy. NIMH New Clinical Drug Evaluation Unit Meeting, Boca Raton, FL, June 7, 2005.

Mitrasinovic O., Ryan, H., Poon C., Murphy G.M. *Src* Tyrosine Kinase Signaling Regulates Microglial Protection of Neurons from Excitotoxicity. Alzheimer's Association International Conference on Prevention of Dementia. Washington, D.C., June 18-21, 2005.

Mitrasinovic O., Chen A., Ryan H., Phong, C., Poon, C., Murphy, G.M. II- 1α and M-CSF: Neurotoxic or Neuroprotective Markers in Alzheimer's Disease? Alzheimer's Association International Conference on Prevention of Dementia. Washington, D.C, June 18-21, 2005.

Murphy, G.M. Application of microarray technology in psychotropic drug trials. Presentation at 8th IMCPP Conference: "Clinical Pharmacology in Psychiatry: The Genomic Interface". Worcester College, Oxford University, Oxford, UK September 25-28, 2005.

Murphy, G.M. Antidepressant Pharmacogenetics in the Elderly. Presentation at Panel "Arriving Soon to a Clinic Near You: Personalized Psychopharmacology, Using Genes to Predict Drug Response", 2006 Winter Conference on Brain Research, Steamboat Springs, CO, January 21-27, 2006.

Mitrasinovic, O.M., Rajadas, J., Poon, C., Ryan, H., Murphy, G. M. Modulation of Aβ clearance and microglial chemotaxis in NMDA-neuronal injury model by a Src/RAGE Mechanism. Poster presentation at Keystone symposium "Alzheimer's Disease: Genes, Cellular Pathways and Therapies", February 21 - 26, 2006, Breckenridge, Colorado.

Murphy, G.M. DNA Predictors of Treatment Outcomes in Geriatric Depression. Presentation at Panel "Biomarkers and Predictors of Treatment Outcomes in Geriatric Depression", Annual Meeting of the American Association for Geriatric Psychiatry, San Juan, Puerto Rico, March 10-13, 2006.

Murphy, G.M. Macrophages in Alzheimer's Disease. Presentation at the Inflammation Research Association symposium "The Macrophage Lineage as a Mediator of Remodeling Diseases", East Brunswick, NJ, March 17, 2006.

Adamson, M.M., Noda, A., Murphy, G.M., Weiner, M., Taylor, J. Brain and Cognitive Relationships in Older Pilots Genetically at Risk for Alzheimer's Disease. Poster presentation at Cognitive Aging Conference, Atlanta, GA, April 20-23, 2006.

Murphy, G.M. Prediction of Antidepressant Drug Response in Geriatric Depression. Presentation at the 62nd Annual Convention of the Society of Biological Psychiatry, San Diego, CA, May 17-19, 2007.

- Murphy, G., Killen, J., Lazzeroni, L., Fortmann, S., Schatzberg, A.. Pharmacogenetic Predictors of Smoking Cessation. California Tobacco-Related Disease Research Program Biennial Conference. Sacramento, CA, October 8-9, 2007.
- Sarginson, J., Killen, J., Fortmann, S., Lazzeroni, L., Schatzberg, A., Murphy, G. Pharmacogenetic markers for cholinergic effects on smoking cessation. Poster presentation at the 57th Annual Meeting of the American Society for Human Genetics. San Diego, CA, October 23-27, 2007.
- Parvathy, S., Rajadas, J., Ryan, H.S., Vaziri, S., Berger, T., Murphy, G.M. $A\beta$ peptide conformation dependent interleukin- 1α (IL- 1α) expression and uptake by microglial cells. Poster Presentation at Society for Neuroscience Annual Meeting, San Diego, CA, November 4, 2007.
- Murphy, G.M. Prediction of Antidepressant Drug Response in Geriatric Depression. Presentation at the 48th Annual NCDEU Meeting, Phoenix, AZ, May 27-30, 2008.
- J. Sarginson, L. Lazzeroni, H. S. Ryan, A. F. Schatzberg, G. M. Murphy. Prediction of Antidepressant Drug Response in Geriatric Depression. Poster presentation at the 58th Annual Meeting of the American Society for Human Genetics. Philadelphia, PA, November 11-15, 2008.
- Murphy, G.M., Parvathy, S., Wang, G., Ryan, H., Vaziri, S. Genome-wide expression analysis of Alzheimer's disease model transgenic mice fed a high cholesterol diet. Poster Presentation at Society for Neuroscience Annual Meeting, Washington, D.C., November 17, 2008.
- Murphy, G.M. Clinical Pharmacogenetic Tests in Psychiatry: Practical Applications. Presentation at Neuroscience Teaching Day Workshop "A Genetics Primer for Geriatric Psychiatry: Beginning the Era of Personalized Medicine". Annual Meeting of the American Association for Geriatric Psychiatry, Honolulu, HI, March 5, 2009.
- Sarginson, J., Killen, J., Lazzeroni, L., Fortmann, S., Schatzberg, A., Murphy, G.M. Pharmacogenetic markers for cholinergic effects on nicotine addiction and smoking cessation. Poster Presentation at the 59th Annual Meeting of the American Society for Human Genetics. Honolulu HI, October 20-24, 2009.
- Murphy, G.M. ABCB1 Genetic Variation and Clinical Outcomes in the International Study to Predict Optimized Treatment for Depression (iSPOT-D). Platform presentation at the 69th Annual Meeting of the Society of Biological Psychiatry. New York, NY, May 8-10, 2014.

Schatzberg, A.F., DeBattista, C., Etkin, A., Murphy, G.M., Williams, L. ABCB1 genetic variants and neurocognitive function predict antidepressant outcomes: A report from iSPOT-D. Poster presentation at 53rd Annual Meeting of the American College of Neuropsychopharmacology. Phoenix, AZ, Dec 7-11, 2014.

Murphy, G.M. Some Observations on Fifteen Years of Pharmacogenetic Research on Antidepressants (with Alan F. Schatzberg). David A. Mrazek Memorial Award Lecture. Presentation at American Psychiatric Association Meeting, San Francisco, CA, May 20, 2019.