

Stanford



Greer Murphy M.D., Ph.D.

Professor of Psychiatry and Behavioral Sciences (General Psychiatry and Psychology-Adult), Emeritus

CONTACT INFORMATION

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Bio

BIO

28 years of experience practicing general and geriatric psychiatry, and addiction medicine - inpatient, outpatient, emergency room, residential, partial hospitalization, and telemedicine.

Board Certified in Psychiatry, Geriatric Psychiatry, and in the new medical specialty of Addiction Medicine

Trained hundreds of resident physicians and medical students in inpatient and emergency room psychiatry and addiction medicine

23 years of experience as director of NIH-funded laboratory performing molecular biology and genetics

Extensive publication record in the neurobiology of Alzheimer's disease, and in pharmacogenetics.

Licensed to practice Medicine in California, Maryland, District of Columbia, and Virginia

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Psychiatry and Behavioral Sciences

HONORS AND AWARDS

- Mrazek Award for Psychiatric Pharmacogenomics, American Psychiatric Association (2019)
- Board Certified, Addiction Medicine, ABPM (ABMS) (2018)
- Board Certified, Psychiatry, ABPN
- Board Certified, Geriatric Psychiatry, ABPN
- Fellow, American Psychiatric Association
- Best Doctors in America, Best Doctors, Inc.
- Knight Fellow Favorite Professor, Stanford University
- Alpha Omega Alpha, University of California, Davis, School of Medicine

- G. Milton Shy Award, American Academy of Neurology
- Phi Beta Kappa, The George Washington University

PROFESSIONAL EDUCATION

- M.D., University of California, Davis (1986)
- Ph.D., University of California, Berkeley (1984)
- B.A., The George Washington University (1974)

LINKS

- My Medical Psychiatry Blog: <http://gmm-medical-psych.blogspot.com/>
- My LinkedIn Profile: <https://www.linkedin.com/in/greermurphy/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Over the years my laboratory addressed scientific problems related to neuroscience, genetics, psychiatry, neurology and addiction medicine. Initially, we investigated expression of beta amyloid and related markers in Alzheimer's disease brain. Simultaneously we developed cell culture models using astrocytes and microglia to investigate production of cytokines by glia, thus defining the inflammatory repertoire of these cells. Next, we began human genetics studies to assess the effect of the APOE epsilon 4 allele on clinical phenotypes in Alzheimer's disease and other conditions. We then employed organotypic hippocampal explant cultures to study glial-neuronal interactions. This involved utilizing confocal microscopy to image cells in the 3-dimensional hippocampal cultures, as well as implementing PCR techniques for quantifying gene expression in minute volumes of tissue. Ultimately, we developed a microglia-hippocampal co-culture model with genetically engineered exogenous microglia to study cell-cell inflammatory processes. With this model we discovered novel effects of inflammatory cytokines on neurons. We also engineered endogenous microglia in the organotypic cultures using biolistics, to confirm results obtained in the co-cultures. We were early adopters of microarray technology for studying gene expression as well as for genotyping and DNA sequencing. We applied microarray approaches to gene expression in transgenic mouse models for Alzheimer's disease, identifying a variety of markers induced by brain amyloid beta. Simultaneously, we were among the first to apply microarray technology to genotyping for markers for clinical medication response, adverse reactions, and metabolism. Finally, we performed large scale genotyping studies to identify markers for antidepressant response and response to medications for smoking cessation.

Publications

PUBLICATIONS

- **Corticotropin-releasing factor 1 receptor haplotype and cognitive features of major depression.** *Translational psychiatry*
Davis, E. G., Keller, J., Hallmayer, J., Pankow, H. R., Murphy, G. M., Gotlib, I. H., Schatzberg, A. F.
2018; 8 (1): 5
- **HPA axis in major depression: cortisol, clinical symptomatology and genetic variation predict cognition** *Molecular Psychiatry*
Keller, J., Gomez, R., Williams, G., Lembke, A., Lazzeroni, L., Murphy, Jr., G. M., Schatzberg, A.
2017; 22 (4): 527-536
- **Response to Transdermal Selegiline Smoking Cessation Therapy and Markers in the 15q24 Chromosomal Region.** *Nicotine & tobacco research*
Sarginson, J. E., Killen, J. D., Lazzeroni, L. C., Fortmann, S. P., Ryan, H. S., Ameli, N., Schatzberg, A. F., Murphy, G. M.
2015; 17 (9): 1126-1133
- **ABC1 (MDR1) predicts remission on P-gp substrates in chronic depression** *PHARMACOGENOMICS JOURNAL*
Ray, A., Tennakoon, L., Keller, J., Sarginson, J. E., Ryan, H. S., Murphy, G. M., Lazzeroni, L. C., Trivedi, M. H., Kocsis, J. H., Debattista, C., Schatzberg, A. F.
2015; 15 (4): 332-339
- **ABC1 Genetic Effects on Antidepressant Outcomes: A Report From the iSPOT-D Trial** *American Journal of Psychiatry*
Schatzberg, A. F., DeBattista, C., Lazzeroni, L., Rekshan, W., Etkin, A., Murphy, G., Williams, L.

2015; In press

- **HPA axis genetic variation, cortisol and psychosis in major depression.** *Molecular psychiatry*
Schatzberg, A. F., Keller, J., Tennakoon, L., Lembke, A., Williams, G., Kraemer, F. B., Sarginson, J. E., Lazzeroni, L. C., Murphy, G. M.
2014; 19 (2): 220-227
- **BDNF and CREB1 genetic variants interact to affect antidepressant treatment outcomes in geriatric depression.** *Pharmacogenet Genomics*
Murphy GM, Sarginson JE, Ryan HS, O'Hara R, Schatzberg AF, Lazzeroni LC
2013; 23 (6): 301-13
- **Pharmacogenetics of Late-Life Depression** *In: Late-Life Mood Disorders, H. Lavretsky, M. Sajatovic, C. Reynolds, eds.*
Murphy, G.
2013; Oxford
- **Markers in the 15q24 Nicotinic Receptor Subunit Gene Cluster (CHRNA5-A3-B4) Predict Severity of Nicotine Addiction and Response to Smoking Cessation Therapy** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Sarginson, J. E., Killen, J. D., Lazzeroni, L. C., Fortmann, S. P., Ryan, H. S., Schatzberg, A. F., Murphy, G. M.
2011; 156B (3): 275-284
- **FKBP5 Polymorphisms and Antidepressant Response in Geriatric Depression** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Sarginson, J. E., Lazzeroni, L. C., Ryan, H. S., Schatzberg, A. F., Murphy, G. M.
2010; 153B (2): 554-560
- **ABC1 Genetic Effects on Antidepressant Outcomes: A Report From the iSPOT-D Trial** *AMERICAN JOURNAL OF PSYCHIATRY*
Schatzberg, A. F., DeBattista, C., Lazzeroni, L. C., Etkin, A., Murphy, G. M., Williams, L. M.
2015; 172 (8): 751-759
- **APOE-epsilon4 and aging of medial temporal lobe gray matter in healthy adults older than 50 years** *NEUROBIOLOGY OF AGING*
Taylor, J. L., Scanlon, B. K., Farrell, M., Hernandez, B., Adamson, M. M., Ashford, J. W., Noda, A., Murphy, G. M., Weiner, M. W.
2014; 35 (11): 2479-2485
- **The Roles of COMT val158met Status and Aviation Expertise in Flight Simulator Performance and Cognitive Ability** *BEHAVIOR GENETICS*
Kennedy, Q., Taylor, J. L., Noda, A., Adamson, M., Murphy, G. M., Zeitzer, J. M., Yesavage, J. A.
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- **Initial Cognitive Performance Predicts Longitudinal Aviator Performance** *JOURNALS OF GERONTOLOGY SERIES B-PSYCHOLOGICAL SCIENCES AND SOCIAL SCIENCES*
Yesavage, J. A., Jo, B., Adamson, M. M., Kennedy, Q., Noda, A., Hernandez, B., Zeitzer, J. M., Friedman, L. F., Fairchild, K., Scanlon, B. K., Murphy, G. M., Taylor, J. L.
2011; 66 (4): 444-453
- **Influences of APOE epsilon 4 and Expertise on Performance of Older Pilots** *PSYCHOLOGY AND AGING*
Taylor, J. L., Kennedy, Q., Adamson, M. M., Lazzeroni, L. C., Noda, A., Murphy, G. M., Yesavage, J. A.
2011; 26 (2): 480-487
- **Failure to improve cigarette smoking abstinence with transdermal selegiline plus cognitive behavior therapy** *ADDICTION*
Killen, J. D., Fortmann, S. P., Murphy, G. M., Hayward, C., Fong, D., Lowenthal, K., Bryson, S. W., Killen, D. T., Schatzberg, A. F.
2010; 105 (9): 1660-1668
- **ABC1 (MDR1) polymorphisms and antidepressant response in geriatric depression** *PHARMACOGENETICS AND GENOMICS*
Sarginson, J. E., Lazzeroni, L. C., Ryan, H. S., Ershoff, B. D., Schatzberg, A. F., Murphy, G. M.
2010; 20 (8): 467-475
- **Apolipoprotein E epsilon 4 influences on episodic recall and brain structures in aging pilots** *NEUROBIOLOGY OF AGING*
Adamson, M. M., Landy, K. M., Duong, S., Fox-Bosetti, S., Ashford, J. W., Murphy, G. M., Weiner, M., Taylor, J. L.
2010; 31 (6): 1059-1063
- **A beta peptide conformation determines uptake and interleukin-1 alpha expression by primary microglial cells** *NEUROBIOLOGY OF AGING*
Parvathy, S., Rajadas, J., Ryan, H., Vaziri, S., Anderson, L., Murphy, G. M.
2009; 30 (11): 1792-1804

- **Gene expression profile of the PDAPP mouse model for Alzheimer's disease with and without Apolipoprotein E** *NEUROBIOLOGY OF AGING*
Selwood, S. P., Parvathy, S., Cordell, B., Ryan, H. S., Oshidari, F., Vincent, V., Yesavage, J., Lazzeroni, L. C., Murphy, G. M.
2009; 30 (4): 574-590
- **Extended cognitive behavior therapy for cigarette smoking cessation** *ADDICTION*
Killen, J. D., Fortmann, S. P., Schatzberg, A. F., Arredondo, C., Murphy, G., Hayward, C., Celio, M., Cromp, D., Fong, D., Pandurangi, M.
2008; 103 (8): 1381-1390
- **Slower speed-of-processing of cognitive tasks is associated with presence of the apolipoprotein epsilon 4 allele** *JOURNAL OF PSYCHIATRIC RESEARCH*
O'Hara, R., Sommer, B., Way, N., Kraemer, H. C., Taylor, J., Murphy, G.
2008; 42 (3): 199-204
- **A novel quantitative trait locus on mouse chromosome 18, "era1," modifies the entrainment of circadian rhythms** *SLEEP*
Wisor, J. P., Striz, M., DeVoss, J., Murphy, G. M., Edgar, D. M., O'Hara, B. F.
2007; 30 (10): 1255-1263
- **Potential ethnic modifiers in the assessment and treatment of Alzheimer's disease: challenges for the future** *INTERNATIONAL PSYCHOGERIATRICS*
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- **A Novel Quantitative Trait Locus on Mouse Chromosome 18, ?era1,? Modifies the Entrainment of Circadian Rhythm** *Sleep*
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2007; 30 (10): 1255-1263
- **Cerebral Inflammation and Alzheimer's Dementia** *In: Research Progress in Alzheimer's Disease and Dementia, vol. 2, edited by Miao-Kun Sun*
Saravanapavan, P., Murphy, GM.
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- **Application of microarray technology in psychotropic drug trials.** *Journal of psychopharmacology*
Murphy, G. M.
2006; 20 (4): 72-78
- **Extended treatment with bupropion SR for cigarette smoking cessation** *JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY*
Killen, J. D., Fortmann, S. P., Murphy, G. M., Hayward, C., Arredondo, C., Cromp, D., Celio, M., Abe, L., Wang, Y., Schatzberg, A. F.
2006; 74 (2): 286-294
- **The brain-derived neurotrophic factor Val66Met polymorphism and rate of decline in Alzheimer's disease** *JOURNAL OF ALZHEIMERS DISEASE*
Chuu, J. Y., Taylor, J. L., Tinklenberg, J., Noda, A., Yesavage, J., Murphy, G. M.
2006; 9 (1): 43-49
- **Spatial test for agricultural pesticide "blow-In" effect on prevalence of Parkinson's disease** *JOURNAL OF GERIATRIC PSYCHIATRY AND NEUROLOGY*
Yesavage, J. A., Sheikh, J., Noda, A., Murphy, G., O'Hara, R., Hierholzer, R., Battista, M., Ashford, J. W., Schneider, B., Hoblyn, J., Kraemer, H. C., Tinklenberg, J.
2006; 19 (1): 32-35
- **Nocturnal sleep apnea/hypopnea is associated with lower memory performance in APOE epsilon 4 carriers** *NEUROLOGY*
O'Hara, R., Schroder, C. M., Kraemer, H. C., Kryla, N., Cao, C., Miller, E., Schatzberg, A. F., Yesavage, J. A., Murphy, G. M.
2005; 65 (4): 642-644
- **Microglia overexpressing the macrophage colony-stimulating factor receptor are neuroprotective in a microglial-hippocampal organotypic coculture system** *JOURNAL OF NEUROSCIENCE*
Mitrasinovic, O. M., Grattan, A., Robinson, C. C., Lapustea, N. B., Poon, C., Ryan, H., Phong, C., Murphy, G. M.
2005; 25 (17): 4442-4451
- **Sleep and circadian abnormalities in a transgenic mouse model of Alzheimer's disease: A role for cholinergic transmission** *NEUROSCIENCE*
Wisor, J. P., Edgar, D. M., Yesavage, J., Ryan, H. S., McCormick, C. M., Lapustea, N., Murphy, G. M.
2005; 131 (2): 375-385
- **Sleep apnea/hypopnea is associated with lower memory performance in APOE epsilon 4 allele carriers only** *19th Annual Meeting of the Associated-Professional-Sleep-Societies*

O'Hara, R. M., Schroder, C. M., Kraemer, H. C., Kryla, N. R., Cao, C., Miller, E. H., Schatzberg, A. F., Yesavage, J. A., Murphy, G. M.
AMER ACAD SLEEP MEDICINE.2005: A109–A109

- **Cytokines and Neurodegeneration** *Cytokines and the CNS*
Murphy, G., Saravanapavan, P
2005: 163-191
- **Effects of the serotonin transporter gene promoter polymorphism on mirtazapine and paroxetine efficacy and adverse events in geriatric major depression** *ARCHIVES OF GENERAL PSYCHIATRY*
Murphy, G. M., Hollander, S. B., Rodrigues, H. E., Kremer, C., Schatzberg, A. F.
2004; 61 (11): 1163-1169
- **Biolistic expression of the macrophage colony stimulating factor receptor in organotypic cultures induces an inflammatory response** *JOURNAL OF NEUROSCIENCE RESEARCH*
Mitrasinovic, O. M., Robinson, C. C., Tenen, D. G., Lee, Y. L., Poon, C., Murphy, G. M.
2004; 77 (3): 420-429
- **Microarray comparison of gene expression in the hippocampus of aged apoE E3 and E4 transgenic mice** *9th International Conference on Alzheimers Disease and Related Disorders*
Murphy, G. M., Mitrasinovic, O. M., Sullivan, P. M.
ELSEVIER SCIENCE INC.2004: S316–S316
- **Use of a VA pharmacy database to screen for areas at high risk for disease: Parkinson's disease and exposure to pesticides** *JOURNAL OF GERIATRIC PSYCHIATRY AND NEUROLOGY*
Yesavage, J. A., Sheikh, J., Noda, A., Murphy, G., O'Hara, R., Hierholzer, R., Battista, M., Ashford, J. W., Kraemer, H. C., Tinklenberg, J.
2004; 17 (1): 36-38
- **Sleep/wake disruption in Alzheimer's disease: APOE status and longitudinal course** *JOURNAL OF GERIATRIC PSYCHIATRY AND NEUROLOGY*
Yesavage, J. A., Friedman, L., Kraemer, H., Tinklenberg, J. R., Salehi, A., Noda, A., Taylor, J. L., O'Hara, R., Murphy, G.
2004; 17 (1): 20-24
- **Microglial overexpression of the M-CSF receptor augments phagocytosis of opsonized A beta** *NEUROBIOLOGY OF AGING*
Mitrasinovic, O. M., Murphy, G. M.
2003; 24 (6): 807-815
- **The apolipoprotein E epsilon 4 allele and antidepressant efficacy in cognitively intact elderly depressed patients** *BIOLOGICAL PSYCHIATRY*
Murphy, G. M., Kremer, C., Rodrigues, H., Schatzberg, A. F.
2003; 54 (7): 665-673
- **Pharmacogenetics of antidepressant medication intolerance** *40th Annual Meeting of the American-College-of-Neuropsychopharmacology*
Murphy, G. M., Kremer, C., Rodrigues, H. E., Schatzberg, A. F.
AMER PSYCHIATRIC PUBLISHING, INC.2003: 1830–35
- **Macrophage colony stimulating factor promotes phagocytosis by murine microglia** *NEUROSCIENCE LETTERS*
Mitrasinovic, O. M., Vincent, V. A., Simsek, D., Murphy, G. M.
2003; 344 (3): 185-188
- **Sleep/wake cycle disturbance in Alzheimer's disease: Longitudinal change in relation to APOE status**
Yesavage, J., Friedman, L., Kraemer, H., Murphy, G., Salehi, A., O'Hara, R., Noda, A., Taylor, J., Tinklenberg, J.
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- **Developing novel treatments for mood disorders: Accelerating discovery** *BIOLOGICAL PSYCHIATRY*
Tamminga, C. A., Nemeroff, C. B., Blakely, R. D., Brady, L., Carter, C. S., Davis, K. L., Dingledine, R., Gorman, J. M., Grigoriadis, D. E., Henderson, D. C., Innis, R. B., Killen, J., Laughren, et al
2002; 52 (6): 589-609
- **Analysis of neuronal gene expression with laser capture microdissection** *JOURNAL OF NEUROSCIENCE RESEARCH*
Vincent, V. A., DeVoss, J. J., Ryan, H. S., Murphy, G. M.
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- **Macrophage colony stimulating factor prevents NMDA-induced neuronal death in hippocampal organotypic cultures** *JOURNAL OF NEUROCHEMISTRY*

- Vincent, V. A., Robinson, C. C., Simsek, D., Murphy, G. M.
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- **Double-blind, randomized comparison of mirtazapine and paroxetine in elderly depressed patients** *AMERICAN JOURNAL OF GERIATRIC PSYCHIATRY*
Schatzberg, A. F., Kremer, C., Rodrigues, H. E., Murphy, G. M.
2002; 10 (5): 541-550
 - **Accelerated phagocytosis of amyloid-beta by mouse and human microglia overexpressing the macrophage colony-stimulating factor receptor** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Mitrasinovic, O. M., Murphy, G. M.
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 - **Cardiac gene expression profile and lipid accumulation in response to starvation** *AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM*
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 - **Proinflammatory effects of M-CSF and A beta in hippocampal organotypic cultures** *NEUROBIOLOGY OF AGING*
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 - **Accelerated Phagocytosis of Amyloid-beta by Mouse and Human Microglia Overexpressing the M-CSF Receptor.** *Journal of Biological Chemistry*
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 - **Single base pair polymorphisms and their characterization with oligonucleotide microarrays.** *Psychiatric Genetics*
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 - **Rapid detection of the C-1496G polymorphism in the CYP2D6*2 allele** *CLINICAL CHEMISTRY*
Claassen, J. D., Pascoe, N., Schatzberg, A. F., Murphy, G. M.
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 - **Absence of cardiac lipid accumulation in transgenic mice with heart-specific HSL overexpression** *AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM*
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Lue, L. F., Rydel, R., Brigham, E. F., Yang, L. B., Hampel, H., Murphy, G. M., Brachova, L., Yan, S. D., Walker, D. G., Shen, Y., Rogers, J.
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 - **Combined assessment of tau and neuronal thread protein in Alzheimer's disease CSF** *NEUROLOGY*
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 - **The APOE epsilon 4 allele is associated with decline on delayed recall performance in community-dwelling older adults** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
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 - **Macrophage colony-stimulating factor augments beta-amyloid-induced interleukin-1, interleukin-6, and nitric oxide production by microglial cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*
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 - **No association between apolipoprotein E epsilon 4 allele and rate of decline in Alzheimer's disease** *AMERICAN JOURNAL OF PSYCHIATRY*
Murphy, G. M., Taylor, J., Kraemer, H. C., Yesavage, J., Tinklenberg, J. R.
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 - **Inhibition of beta-amyloid formation by haloperidol: A possible mechanism for reduced frequency of Alzheimer's disease pathology in schizophrenia** *JOURNAL OF NEUROCHEMISTRY*
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PRESENTATIONS

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