

- ◆ Office: 706-721-1106
- ◆ E-mail: cwakade@augusta.edu, chandramohan.wakade@va.gov

Personal Statement:

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As an Associate Dean of Research, I am engaged in promoting research and education at the College of Allied Health Sciences (CAHS) at the Augusta University (AU). I participate in executive leadership at AU that critically examines the research mission and develop strategic goals for future planning and innovations. I am also engaged with the Dean at the CAHS in budget, planning, department re-structuring, accreditations, and academic planning.

My research team is aiming at ongoing inflammation in Parkinson's disease (PD) by targeting a vitamin B3 receptor GPR109A. We track the inflammatory cytokine profile in spinal fluid of PD patients to assess the efficacy of this anti-inflammatory approach. We provide niacin supplements as an intervention, in early to mid-stage PD patients and measure basic physical motor and coordination skills, cognitive functions and cerebrospinal fluid (CSF) analyses for inflammatory markers before and after niacin treatment. *My lab is the first in the world to discover and publish work related to niacin deficiency and upregulation of GPR109A in PD.* I am a physician scientist, and it allows me to think critically on issues that are important and beneficial from bench to bedside.

Summary of Qualifications:

Administrator

For past 3 years whenever the Dean of CAHS was on vacation, I have managed the CAHS as an acting Dean. For numerous times, I represent the Dean of CAHS in the Provost's Dean's cabinet meetings. Besides managing the office of Associate Dean of Research, I routinely participate in CAHS budget preparation, Dean's cabinet meeting, Chairs Council, fundraising, white-coat ceremonies, and strategic planning.

Scientific Reviewer on National VA Merit Review Subcommittees since 2009. The RRD (Rehabilitation Research and Development) panel invited me to chair the VA RR&D Aging/Neurodegenerative Disease (RRD6) subcommittee for the fall 2017 cycle.

I review 15-20 grant proposals per year, write critiques and participate in discussions. Successfully articulated review comments. The grants that I review are mostly in neurobiology, traumatic brain injury, stroke, stem cells and neurogenesis.

Since Feb 2013, invited by the RRD (rehabilitation research development, VA) on CDA (career development award) panel for reviewing grants for spring cycle.

Research scientist and educator: I have been a Principal Investigator for the VA merit, National Parkinson's foundation CSRA chapter grants and Beginning Grant-in Aid, American Heart Association. Co-investigator of NIH-funded projects in cellular neurobiology, neurodegenerative diseases and stroke. Co-principal investigator in a project funded by Janssen Pharmaceutical.

Course Director in neuroscience for graduate students in Allied Health and basic sciences. I have mentored many junior faculty, postdoctoral fellows, graduate and undergraduate students.

Research administrator: As an Associate Dean for Research I have observed closely the dynamics and challenges of the leadership position, but I also realized its potential to build a robust enterprise to support our mission about quality education and advancement in knowledge. I am helping Dean Dr. Pretlow to strengthen strategic growth in the applied health research and in mentoring junior research faculty. We are planning to improve and expand grant applications for the extramural funding.

Professional with clinically relevant research skills and supervisory experience: I have Initiated various in-vivo stroke models on the campus of AU. I Received training at Henry Ford Hospital Stroke Research Center in Dr. Michael Chopp's lab. I have Published extensively in the field of stroke and other ischemia models (including traumatic brain injury). I Trained over 30 junior scientists and technical staff in cell culture techniques, histochemistry, FACS sorting and imaging. I have over 25 years of supervisory experience of students, technicians, post-docs, and faculty. **I am a clinician/researcher with broad-based research knowledge and experience.**

Education:

Fergusson College, Pune, India 1977-1979 Biology (pre-med certification)

B. J. Medical College, Pune, India, MBBS (equivalent to MD, Medicine/Surgery 1979-1984)

Columbia University, New York, NY, Postdoctoral fellowship in Neuroscience, 1987-1991

Positions and Honors:

2017 August-till present: Professor and Associate Dean for Research, College of Allied Health Sciences, Augusta University.

2016 April-2017: July Interim Associate Dean for Research, College of Allied Health Sciences, Augusta University.

2012-till present: Professor, Department of Physical Therapy and Institute of Molecular Medicine, Augusta University.

2007-2012: Assistant Research Scientist, Institute of Molecular Medicine and Genetics and Co-Director Human Cord Stem Cell Core, GHSU (now AU).

May 2002-2006: Assistant Research Scientist, Institute of Molecular Medicine and Genetics (IMMAG), Med. College of Georgia, Augusta University.

2000 Oct.-May 2002: Research Fellow in Dr. F.-C. Alex Chiu's lab., IMMAG, Med. College of Georgia, Augusta University.

1995-2000 Oct.: Research fellow in Dr. David Hess's lab, Dept. of Neurology, Medical College of Georgia, Augusta University.

1992-1994: Post-doc fellow, in Dr. Mahadik's lab, - Dept. of Psychiatry, Med. College of Georgia, Augusta University.

1987-1991: Research Associate, in Dr. Karpiak's lab, - Dept. of Psychiatry, Division of Neuroscience, Columbia University, New York, NY.

1985-1987: Research assistant, in Dr. A. R. Wakade's lab, - SUNY, Health Science Center at Brooklyn, NY.

Professional Affiliations:

Stroke council, American Heart Association

Society for Neuroscience

Research Support:

Ongoing:

1. Project Number: RX001613-01A2 Source: VA Merit, Role: PI

Title: GPR109A and Parkinson's Disease: Role of Niacin in Outcome Measures.

Dates of Approved Project: 11/1/2015 to 10/31/2020, \$1,057,891.80 total costs.

Aims: We will study effects of niacin (nicotinic acid) treatment in outcome measures of PD patients

This award is considered to be the equivalent of a NIH R01 in terms of competitiveness and prestige.

2. Project Number: pending IRB approval Source: National Parkinson's Foundation, CSRA Parkinson's support group Role: PI

Title: Effect of Niacin on Activated Microglia in PD Brain. \$13K total costs.

Dates of Approved Project: 10/1/2019 to 9/31/2020

Aims: To determine up-regulation of activated microglia in PET scans of PD patients. - Correlation with peripheral markers with and without niacin therapy.

3. Title: NAPS: Niacin for Parkinson's disease. Submitted: October 2016 Source: NIH

Role: Co-I (PI: Chong), RO1, cost \$1,990,044.00

Dates of Approved Project: 1/1/2020 to 12/31/2025

Completed (in the last 3 years):

1. Project Number: 1 I01 BX001069-01 Source: VA Merit, Role: Co-I. PI: Robert Yu

Title: Effects of Gangliosides on Neural Stem Cells: Role in Neuroregeneration

Dates of Approved Project: 10/1/2011 to 9/30/2015

Aims: The major goal of this project is to understand the role of GM1 ganglioside in neurogenesis in AD.

2. Project Number: BX16-015 Source: VA Merit, Role: Co-I. PI: Kebin Liu

Title: ShEEP-IC: Request for Flow Cytometer for \$307,820.00

Dates of Approved Project: 10/1/2016

3. Project Number: PSRP00075 Source: AU PSRP Role: Co-I (PI-Chong)

Title: Dose-response effect of niacin supplementation in Parkinson's disease. AU PSRP.

Dates of Approved project: 3/15 - 2/16

4. Project Number: PSG00028 Source: National Parkinson Foundation (NPF) CSRA chapter.
Role: PI

Title: GPR 109A up-regulation in Parkinson's disease.

Dates of Approved Project: 8/13 to 7/15.

Approved U. S. patent - Antipsychotic agents stimulate neurogenesis in brain.

Scientific peer reviewed publications:

1. Niacin ameliorates neuro-inflammation in Parkinson's disease via GPR109A. Giri B, Belanger K, Seamon M, Bradley E, Purohit S, Chong R, Morgan JC, Baban B, Wakade C.

Int J Mol Sci. 2019 Sep 14;20(18). pii: E4559. doi: 10.3390/ijms20184559.

2. Niacin for Parkinson's Disease Marissa Seamon, Sharad Purohit, Banabihari Giri, Babak Baban, John Morgan, Raymond Chong, and Chandramohan Wakade. Clin Exp Neuroimmunol. 2020;11:47–56. DOI: 10.1111/cen3.12553

3. Sharma A, Kurek J, Morgan JC, *Wakade C*, Rao SSC. Constipation in Parkinson's Disease: a Nuisance or Nuanced Answer to the Pathophysiological Puzzle? *Curr Gastroenterol Rep*. 2018 Jan 19;20(1):1. doi: 10.1007/s11894-018-0609-x.
4. *Wakade C*, Banabihari Giri, Aneeq Malik, Hesam Khodadadi, John C. Morgan, Raymond K. Chong, Babak Baban. Niacin modulates macrophage polarization in Parkinson's disease. *Journal of Neuroimmunology* Volume 320, 15 July 2018, Pages 76-79.
5. Raymond Chong, Lauren Albor, *Wakade C*, John Morgan. The dimensionality of fatigue in Parkinson's disease. *Journal of translational medicine*. 2018 Jul 11; 16: 192. doi: [10.1186/s12967-018-1554-z](https://doi.org/10.1186/s12967-018-1554-z)
6. Jing Wang, Allison Cheng, *Wakade C*, and Robert K. Yu. Ganglioside GD3 Is Required for Neurogenesis and Long-Term Maintenance of Neural Stem Cells in the Postnatal Mouse Brain. *The Journal of Neuroscience*, October 8, 2014 34(41):13790–13800.
7. Khan MM*, *Wakade C**, deSevilla L., Brann DW Selective estrogen receptor modulators (SERMs) enhance neurogenesis and spine density following focal cerebral ischemia, *Journal of Steroid Biochemistry and Molecular Biology* (2014), * shared first authorship, <http://dx.doi.org/10.1016/j.jsbmb.2014.05.001>
8. *Wakade C*, Mehta SH, Maeda M, Webb RC and Chiu FC. Characterization of Axonal Fasciculations and the Role of PSA-NCAM in a Rat Primary Cortical Neuronal Culture Model. 21 Aug 2013 DOI: 10.1002/JNR.23268.
9. Ariga Toshio, *Wakade C*, and Yu Robert K. The Pathological Roles of Ganglioside Metabolism in Alzheimer's Disease: Effects of Gangliosides on Neurogenesis. Accepted in the *International Journal of Alzheimer's Disease* Volume 2011, Article ID 193618.
10. Ariga Toshio, Yanagisawa Makoto, *Wakade C*, Ando Susumu, Buccafusco Jerry J., McDonald Michael P., and Yu Robert K. Ganglioside metabolism in a transgenic mouse model of Alzheimer's disease: Expression of Chol-1 α antigens in the brain. *ASN Neuro*. 2010 Oct 4;2(4).
11. *Wakade C*, Sukumari-Ramesh S, Laird MD, Dhandapani KM, Vender JR. Delayed reduction in hippocampal postsynaptic density protein-95 expression temporally correlates with cognitive dysfunction following controlled cortical impact in mice. *J. Neurosurgery* 2010, April 16.
12. *Wakade C*, Laird M, King M, Dhandapani KM. Curcumin attenuates vascular inflammation and cerebral vasospasm following subarachnoid hemorrhage in mice. *Antioxid Redox Signal*. 2009 Jan,11(1):35-45.
13. Laird MD, M.S., *Wakade C*, Alleyne CH, Dhandapani KM, Hemin-induced necroptosis involves glutathione depletion in mouse astrocytes. *Free Radic Biol Med*. 2008 Oct 15;45(8):1103-14. Epub 2008 Jul 16.
14. *Wakade C*, Khan MM, Desevilla L, Mahesh VB and Brann DW 2007. Modulation of kineses following cerebral ischemia in rat: Regulation and correlation with the neuroprotective effects of estrogen and tamoxifen. Accepted. *Endocrinology*. Jan;149(1):367-79
15. Dhandapani KM, Khan MM, Wade, FM, *Wakade C*, Mahesh VB and Brann DW. Induction of transforming growth factor-B1 by basic fibroblast growth factor in rat C6 glioma cells and

- astrocytes is mediated by MEK/ERK signaling and AP-1 activation. *J. Neurosci Res.* 2007 Apr;85(5):1033-45.
16. Brann DW, Dhandapani K, *Wakade C*, Mahesh VB, Khan MM. Neurotrophic and neuroprotective actions of estrogen: basic mechanisms and clinical implications. *Steroids.* 2007 May 72(5);381-405. Epub 2007 Feb 21. Review.
17. Khan MM, Hadman M, *Wakade C*, De Sevilla LM, Dhandapani KM, Mahesh VB, Vadlamudi RK, Brann D.W. (2005) Cloning of rat MNAR/PELP1: Localization in rat brain and colocalization in estrogen receptor- α but not GnRH-positive neurons. *Endocrinology*, 2005 Dec:146(12):5215-27. Epub 2005 Sep 1.
18. Dhandapani KM, Wade FM, *Wakade C*, Mahesh VB, Brann D.W. (2005) Neuroprotection by stem cell factor in rat cortical neurons involves Akt and NF κ B. *Journal of Neurochemistry*, Oct;95(1):9-19. (Impact factor 3.8)
19. Wade FM, *Wakade C*, Mahesh VB and Brann DW. Differential expression of the peripheral benzodiazepine receptor and gremlin during adipogenesis as identified by differential display analysis. *Obes Res.* 2005 May, 13(5):818-822.
20. Irons H, Lind JG, *Wakade C*, Yu G, Hadman M, Carroll J, Hess DC and Borlongan CV. Intracerebral xenotransplantation of gfp mouse bone marrow stromal cells in intact and stroke rat brain: graft survival and immunologic response. *Cell Transplantation.* 2004;13(3):283-94.
21. *Wakade C*, Mahadik SP and Chiu FC. Atypical Neuroleptics stimulate neurogenesis in adult rat brain. *J. Neurosci. Res.* 2002, 69:72-79.
22. Hill WD, Hess DC, Carroll JE, *Wakade C*, Meadows A., Howard EF, Cheng C. Inhibition of NF- κ B with Diethylthiocarbamate increases DNA fragmentation during focal cerebral ischemia. *Brain research Bulletin*; 2001, 55:375-386
23. Carroll JE, Howard EF, Hess DC, *Wakade C*, Chen Q. and Cheng C. Nuclear factor- κ B activation during cerebral reperfusion: effect of attenuation with N-acetylcysteine treatment. *Mol. Brain Res.* 56, 186-191, 1998.
24. Mahadik SP, Mukherjee S, Korenti EE, Kelkar HS, *Wakade C*, Costa RM and Scheffer R. *Schizophrenia Res.* 13:239-247, 1994.
26. Mahadik SP, Mukherjee S, *Wakade C*, Laev H, Reddy RR and Schnur DB. Decreased adhesiveness and altered cellular distribution of fibronectin in fibroblasts from schizophrenic patients. *Psychiatry Res.* 53:87-97, 1994.
25. Mahadik SP, Makar TK, Murthy JN, Ortiz A, *Wakade C* and Karpiak SE. Temporal changes in superoxide dismutase, glutathione peroxidase and catalase levels in primary and peri-ischemic tissue: Monosialoganglioside (GM1) treatment effects. *J. Mol. Chem. Neuropath.* 18:1-14, 1993.
26. Mahadik SP and *Wakade C*. Cortical focal stroke model to evaluate neuroprotective action of drugs. *Drug Dev. Res.*, 27,4:307-327,1992.
27. Karpiak SE, *Wakade C*, Tagliavia A. and Mahadik SP. Temporal changes in edema, Na $^{+}$, K $^{+}$, and Ca $^{++}$ in focal cortical ischemic stroke. GM1 ganglioside reduces ischemic injury. *J. Neurosci. Res.* 30:512-520,1991.

28. Bharucha VA, *Wakade C*, Mahadik SP and Karpiak SE. GM1 ganglioside treatment reduces functional deficits associated with cortical focal ischemia. *Expt. Neurol.* 114:136-139,1991.
29. Ortiz A, MacDonall JS, *Wakade C* and Karpiak SE. GM1 ganglioside reduces cognitive dysfunction after focal cortical ischemia. *Pharm. Bioch. Behav.* 37:679-684,1991.
30. Karpiak SE, *Wakade C*, Mahadik SP. Ganglioside reduction of CNS ischemic injury. *CRC Critical Rev. Neurobiol.* 5:221-237,1990.
31. Karpiak SE, Tagliavia A, *Wakade C*. Animal models for study of drugs in ischemic stroke. *Ann. Rev. Pharm. Toxic.* 29:403-414,1989.
32. Wakade AR, Malhotra RK, *Wakade C*, Kahn R, Wakade TD. McN-A-343, a specific agonist of M1 muscarinic receptors exerts antinicotinic and antimuscarinic effects in rat adrenal medulla. *Life Sci.* vol. 39, 1986

In preparation:

1. Raymond Chong, Giri B, Morgan J, Babak B, *Wakade C*. Amelioration of motor and non-motor symptoms in Parkinson's disease by niacin.

Abstracts (partial list)

1. J. Wang, *Wakade C*, and R. K. Yu Ganglioside GD3 sustains neurogenesis in the subventricular zone of adult mice by regulating EGF-induced division of neural stem cells. Society for Neuroscience, Nov 9-13, San Diego 2013.
2. *Wakade C*, John Morgan, Rudolf Lucas, Supriya Sridhar, Rupali Suhag, and Raymond Chong. Parkinson's disease: plasma cytokine profile. Society for Neuroscience, Nov 9-13, San Diego 2013.
3. *Wakade C*, L Desevilla, VB Mahesh, DW Brann. The neuroprotective actions of tamoxifen during stroke are correlated with decreased activation of extracellular regulated kinases. 29th International Stroke meeting, San Diego Feb. 5-7, 2004.
4. SH Mehta, *Wakade C*, CR Webb, AM Dorrance. (April 11-15, 2003) NADPH oxidase inhibition exerts a neuroprotective effect in acute ischemic stroke. Experimental Biology 2003, San Diego, FASEB.
5. *Wakade C*, SP Mahadik, JL Waller and FC. Chiu. (2002) Atypical antipsychotics stimulate neurogenesis in adult rat brain. American Soc. Neurochem.
6. SP Mahadik, *Wakade C*, FC Chiu and P Buckley. (2002) Effect of Conventional and Atypical Antipsychotics on Neurogenesis in Rats. APA, Chicago.
7. SP Mahadik, FC Chiu, *Wakade C* and A Terry. (2001) Atypical antipsychotic, risperidone induces neurogenesis in adult rat brain: a possible mechanism of its neuroprotective actions. Hawaii, ACNP.

8. DC Hess, WD Hill, JE Carroll, A Martin-Studdard, J Brailer, J Carrothers, C Chang, *Wakade C, D Trto.* (2001) Bone marrow-derived stem cells transdifferentiate into neurons in a stroke model. *Soc. Neurosci. Abstr.* 27.
9. WD Hill, DC Hess, JE Carroll, *Wakade C*, EF Howard, Q Chen, C Cheng, A Meadows and JL Waller. (2000) The NF- B and SOD1 inhibitor diethyldithiocarbamate increases cell death in the brain in a transient cerebral ischemia model. *Soc. Neurosci. Abstr.* 26.
10. E Shaver, P Katakam, *Wakade C*, A Miller. (August, 1998) Alteration of endothelial dependent vascular relaxation in cerebral arteries after subarachnoid hemorrhage. American Physiological Soc. Conference, 1998, Augusta, GA. *The Physiologist*, 41 (4): 279.
11. DC Hess, *Wakade C*, J Melvin, A Sprinkle, J Carroll, E Sekul. (Feb. 1997) N-Acetylcysteine reduces infarct size in a transient middle cerebral artery occlusion model. 22nd international joint conference on stroke and cerebral circulation, Anaheim, CA.
12. SP Mahadik, *Wakade C*, R Scheffer, E Correnti, RL Borison, S Mukherjee. (April 1993) Abnormal growth of skin fibroblasts from drug-naive Psychotic patients. *Soc. Biol. Psych. San Francisco.*
13. H Kelkar, *Wakade C*, R Reddy, DB Schnur, S Mukherjee, SP Mahadik. (April 1993) Altered membrane phospholipids in fibroblasts from Schizophrenic patients. *Soc. Biol. Psych. San Francisco.*
14. *Wakade C*, A Ahmed, R Reddy, DB Schnur, S Mukherjee, SP Mahadik. (April 1993) Response of fibroblasts from Schizophrenic patients to growth factors. *Soc. Biol. Psych. San Francisco.*
15. SP Mahadik, S Mukherjee, *Wakade C*, H Laev, R Reddy. (1992) Decreased adhesiveness associated with abnormal growth of cultured skin fibroblasts from Schizophrenic patients. *Int. Cong. Schiz.*
16. SP Mahadik, J Murthy, *Wakade C*, SE Karpiak. (Oct. 1989) Enzyme levels in oxy-radical metabolism: Pathophysiology in focal ischemia. *Neurotrauma Soc. Symp. Phoenix.*
17. SE Karpiak, *Wakade C*, VA Bharucha, A Ortiz, A Tagliavia, SP Mahadik. (Oct. 1989) GM1 ganglioside treatment of cerebral ischemia: reduced Ca⁺⁺ accumulation and improved function. *Neurotrauma Soc. Symp. Phoenix.*
18. SE Karpiak, *Wakade C*, A Tagliavia, V Bharucha, SP Mahadik. (July 1989) Ganglioside treatment of CNS pathology: Cholinergic protection trophic factor modulation. *World Cong. Clin. Pharm. Therp. Berlin.*
19. J Murthy, *Wakade C*, SE Karpiak, SP Mahadik. (April 1989) Enzymes in metabolism of free radicals in focal ischemia. *Soc. Neurochem.*
20. SP Mahadik, A Korenowsky, *Wakade*, SE Karpiak. (Nov.1988) Cerebral focal ischemia alters levels of molecular forms of AChE. *Soc. Neurosci.*
21. *Wakade*, V Bharucha, SE Karpiak, SP Mahadik. (Nov.1988) GM1 ganglioside protects loss of plasma membrane function after cerebral focal ischemia. *Soc. Neurosci. Toronto.*
22. AR *Wakade*, *Wakade C*, US Ghodke, RK Malhotra, TD *Wakade*. (1988) Participation of cholinergic and non-cholinergic neurotransmitters in the secretion of catecholamines induced by prolonged stimulation of splanchnic nerves. *Int. Con. Pharm.*

23. AR Wakade, RK Malhotra, *Wakade C*, US Ghodke, TD Wakade. (1987) Catecholamine content of rat adrenal medulla remains unchanged even after prolonged stimulation with excess K⁺. *New York Acad. Sci.*

24. R Kahn, *Wakade C*, RK Malhotra, TD Wakade, AR Wakade. (April 1986) Effects of McN-A-343 and Pirenzepine on the secretion of catecholamines evoked by Carbamylcholine and Muscarine in rat adrenal medulla. *FASEB.*

TEACHING:

Teaching and Mentoring Experience:

Current teaching responsibilities:

Course Director - Applied neuroscience (AU PTHP 8003, previously PSIO 8003), fall 2009 to present. 4 Credit hours

Course Director - FA CAHS 3110 and FA CAHS 7110 both courses are 4 credit hours each

Motor pathways lecture to Dental students, DANA 5003 since fall 2015

Neuro 8082 GS - Fundamentals of motor system, Spinal cord, muscles and locomotion lectures to Neuroscience PhD students (School of Graduate studies AU) since fall 2017

Previous teaching responsibilities and mentorship:

Instructor - Neuroscience (AU SGS 8080) - 2004-2005.

residents and students.

Guidance and consultation to several Ph.D. students at AU including Prasad Katakam, Shyamal Mehta, Anupama Sathyamurthi, Arnab Barik, Laird Melissa, Jill Bradley.

Guidance to post-doctoral fellows and junior faculty members (Dr. Jing Wang, Dr. Yutaka Itokazu, Dr. Micahel Dinkins, Dr. Dongpei)

SERVICE:

Augusta University, Charlie Norwood VA Medical Center and Department of Physical Therapy:

I have provided service and continue to do so on many committees as listed below.

Department service:

1. New faculty hire

2. Student interviews

College Service:

1. Dean and Associate Deans standing committee
2. CAHS Chair's council committee
3. Dean's cabinet

University Service:

1. The Associate Deans committee for research
2. Faculty development and teaching excellence committee
3. The Affiliations Partnership Council Committee on Research
4. Research Mission Strategic Plan for Augusta University

Service at the Charlie Norwood Veterans Affairs Medical Center:

1. Wounded Warrior Symposium committee, Charlie Norwood VAMC
2. Institutional Animal Care and Use Committee at CNVAMC

Committees served in the past

1. Regents Award Review Committee, AU
2. IACUC committee AU

I have represented the Dean of CAHS for the following meetings and occasions

1. Provost's Dean's cabinet meeting
2. Welcome to new students - for Dental Hygiene and Medical Illustration students, 2017
3. An official representative of the Dean when Dr. Pretlow is on vacation and out of town

Professional Service:

Invited Scientific Grant Reviews:

1. Rehabilitation Research and Development (RR&D) Aging & Neurodegenerative Disease Scientific Panel - since 2015

This panel is renamed currently and is called as Neurodegenerative diseases and Aging (RRD6) panel. **For past two cycles, I have been invited to chair this national panel.**

2. Small Projects in Rehabilitation Research (SPiRE), VA RR&D 2016
3. Office of Research Development (ORD) Shared Equipment Evaluation Program (ShEEP) and Laboratory Animal Major Equipment Program (LAMb), VA 2016 Merit Review Board VA since 2014
4. NURA C Panel for ORD 2011-2014
5. The Special Emphasis Panel/Scientific Review Group 2018/08 ZRD1 NURD-C for summer cycle June 2018

Invited Scientific Journal Reviews

1. Journal of Neuroscience Research
2. PLoS One
3. Endocrine
4. Advances in Pharmacological Sciences
5. Journal of Clinical Medicine MDPI

Invited Seminars and consultation: (recent)

1. **Keynote speaker** for the 4th World Congress on Parkinson's and Huntington's disease at Zurich, Switzerland, August 29-30, 2018
2. Invited presentation on 2/15/2017 by a Level 4 Center of Excellence, The Augusta University Movement Disorder Clinic, designated by the National Parkinson's Foundation, Inc. for their site visit on accreditation. Topic: Niacin and M1 and M2 polarization
3. Seminar in Clinical and Translational Science by Department of Biostatistics May 31, 2016 Treating Parkinson's disease with niacin: Role of GPR109A.
4. Lecture seminar to PT (Physical therapy) students, topic: Effects of meditation
5. Guest lecturer to graduate students in Allied Health on somato-sensory pathways
6. Invited to present seminar, Department of Pharmacology, AU
7. Invited to present seminar, Department of Neurology. neurogenesis in adult brain.
8. Invited by many industrial labs including Boehringer Ingelheim, Germany, Fidia International, Italy and ICI Pharmaceuticals New Jersey on stroke projects.
9. Invited lecture to the OT students since 2012-2014 on Neuroplasticity
10. Patient-Oriented Problem Solving in Pharmacology for medical students, MCG, AU 2003-2006

Editorial Office Invitations:

The Scientific Pages of Translational Neuroscience

Neurology and Neurosurgery

The Scientific Pages of Ophthalmology

Medical Research Archives

The Scientific Pages of Dermatology