

Dr. Linda K. Gorman

1254 Starboard Lane

Stanley, NC 28164

(410) 852-4824

lgorman1@jhu.edu

EXECUTIVE SUMMARY:

After earning a PhD in Neurosciences from the University of California at Los Angeles working with Dr. Don Becker and Dr. Arnold Schiebel, Dr. Gorman completed her post-doctoral training at the Johns Hopkins University, work in the Psychological and Brain Sciences department with Dr. David Olton. She then completed a purely-research fellowship at the Johns Hopkins School of Medicine, working in the Anesthesiology and Critical Care Medicine with Dr. Richard Traystman. While she loved research, which was focused on Neuroplasticity and Brain Injury, she realized that teaching was her true passion. She returned to the Johns Hopkins University campus where she spent her entire career as a professor and administrator of the Neuroscience and Behavioral Biology Programs.

While at Johns Hopkins, Dr. Gorman designed and managed the Making Neuroscience Fun program, A STEM based community engagement project for pre-k through 8th grade students in the Baltimore MD community. Upon retiring in 2019, Dr Gorman revised and revamped the Making Neuroscience Fun program to focus on educating school-age children on the importance of their brain health as determined by their Social, Physical, Emotional and Cognitive health. With the support of the Office of the President at Johns Hopkins, she developed the MNF-Brain Health: It's SPECTacular program which is designed to improve people's awareness of brain health and to apply scientific knowledge to real-life activities.

EDUCATION:

Bachelor of Science, Psychology and Chemistry, 1984; University of Arizona, Tucson, AZ

Doctor of Philosophy (PhD), Neuroscience, 1990; University of California at Los Angeles (UCLA), LA, CA

Postdoctoral Fellowship, Psychological and Brain Science, 1990-1992; Johns Hopkins University, Baltimore, MD

PROFESSIONAL EXPERIENCE:

Making Neuroscience Fun, LLC, Charlotte, NC **2021 - Present**
Founder and Executive Director

Johns Hopkins University, Baltimore, MD **1990 - Present**
Teaching Professor (Retired), Psychological and Brain Science **2019 - Present**
Teaching Professor, Psychological and Brain Science **2010 - 2019**
Director of Undergraduate Studies, Neuroscience Program **2011 - 2019**
Director of Undergraduate Studies – Behavioral Biology Program **2015 - 2019**
Interim Chair, Neuroscience Program Committee **2014 - 2016**
Associate Director of Undergraduate Studies, Neuroscience Program **2007 - 2010**
Neuroscience Program Committee Member **2003 - 2019**
Senior Lecturer, Psychological and Brain Science **2003 - 2010**
Lecturer, Psychological and Brain Science **1996 - 2002**
Associate Research Scientist, Psychological and Brain Science **1992 - 1993**

Johns Hopkins Medical Institute, Baltimore, MD **1993 – 1996**
Associate Research Scientist, Anesthesiology & Critical Care Medicine **1993 – 1996**

PROGRAMS AND ACTIVITIES:

Johns Hopkins University:

Making Neuroscience Fun, Johns Hopkins University Community Outreach	2003 – 2019
Program Committee Member, Neuroscience Interdepartmental Program	2003 – 2019
Faculty Advisor, Interdepartmental Neuroscience Program	2003 - 2019
Faculty Advisor, Interdepartmental Behavioral Biology Program	2003 - 2019
Director of Undergraduate Neuroscience Teaching Lab	2004 -2019
Research Coordinator, Neuroscience Program	2004 - 2019
Faculty Advisor, Nu Rho Sci (Undergraduate Neuroscience Society)	2005 – 2019
Committee Member, Pre-professional Health Committee	2005 - 2015
Chair, Undergraduate Research Day Task Force	2013 - 2016
Designer & Program Administrator, Making Educated Choices, JHU Freshman Orientation	2009 – 2016

Neuroscience Industry:

President Elect, National Honor Society in Neuroscience	2011 - 2012
Instructor, Center for Talented Youth, A Day in the Life of the Nervous System	2013 - 2019
Designer & Faculty Advisor, USA Science and Engineering Festival (JHU Booth)	2010 - 2012
Advisor & Judge, Maryland Brain Bee	2009 - 2013

CURRICULUM COURSES DEVELOPED AND TAUGHT:

Undergraduate Courses:

✓ Brain Injury and Recovery of Function	✓ Neuroeducation
✓ How to Live a SPECtacular Life	✓ Neuroplasticity
✓ Introduction to Physiological Psychology	✓ Neuroscience Lab: A Practical Approach
✓ Methods in Neuroscience and Orgo	✓ Psychopharmacology
✓ Neurobiology of Addiction	✓ Scientific Communications
✓ Foundations of Brain, Behavior and Cognition	✓ Science of Learning

Experiential Learning Courses:

- HopKids- Children's Center, Johns Hopkins Medical Institute, Children's Center
- HopKids – Kennedy Krieger Institute
- KEEN (Kids Enjoying Exercise Now)
- Making Neuroscience Fun (MNF)

EDUCATION RELATED AWARDS:

Undergraduate Advising Award, JHU Krieger School of Arts and Sciences	2019
Crenson-Hertz Award, Community-Based Learning and Participatory Research	2017
Outstanding Faculty Advisor Award, Mid-Atlantic Region, NACADA	2010
Outstanding Student Organization Advisor Award, Nu Rho Psi, Office of Student Activities Leadership Recognition Program	2009

PROFESSIONAL AFFILIATIONS:

American Association for the Advancement of Science (AAAS)
Society for Neuroscience
National Nu Rho Psi
Faculty for Undergraduate Neuroscience (FUN)
Association of Neuroscience Departments and Programs
Committee on Neuroscience Departments and Programs

PUBLICATIONS:

- Muma NA, Lee JM, Gorman L, Heidenreich BA, Mitrovic I, Napier TC. *6-hydroxydopamine-induced lesions of dopaminergic neurons alter the function of postsynaptic cholinergic neurons without changing cytoskeletal proteins.* Exp Neurol. (2001) Mar;168(1):135-43.
- Baxter MG, Frick KM, Price DL, Breckler SJ, Markowska AL, Gorman LK. *Presynaptic markers of cholinergic function in the rat brain: relationship with age and cognitive status.* Neuroscience. (1999) Mar;89(3):771-9.
- Frick KM, Gorman LK, Markowska AL. *Oxotremorine infusions into the medial septal area of middle-aged rats affect spatial reference memory and ChAT activity.* Behav Brain Res. (1996) Oct;80(1-2):99-109.
- Gorman LK, Fu K, Hovda DA, Murray M, Traystman RJ. *Effects of traumatic brain injury on the cholinergic system in the rat.* J Neurotrauma. (1996) Aug;13(8):457-63.
- Baxter MG, Bucci DJ, Sobel TJ, Williams MJ, Gorman LK, Gallagher M. *Intact spatial learning following lesions of basal forebrain cholinergic neurons.* Neuroreport. (1996) May 31;7(8):1417-20.
- Tobin JR, Gorman LK, Baxter MG, Traystman RJ. *Nitric oxide synthase inhibition does not impair visual or spatial discrimination learning.* Brain Res. (1995) Oct 2;694(1-2):177-82.
- Baxter MG, Bucci DJ, Gorman LK, Wiley RG, Gallagher M. *Selective immunotoxic lesions of basal forebrain cholinergic cells: effects on learning and memory in rats.* Behav Neurosci. (1995) Aug;109(4):714-22.
- Gorman LK, Pang K, Frick KM, Givens B, Olton DS. *Acetylcholine release in the hippocampus: effects of cholinergic and GABAergic compounds in the medial septal area.* Neurosci Lett. (1994) Jan 31;166(2):199-202.
- Voytko ML, Olton DS, Richardson RT, Gorman LK, Tobin JR, Price DL. *Basal forebrain lesions in monkeys disrupt attention but not learning and memory.* J Neurosci. (1994) Jan;14(1):167-86. Erratum in: J Neurosci 1995 Mar;15(3 Pt2)
- Gorman LK. *Age-related behavioral and neurochemical deficits: the cholinergic system revisited.* Neurobiol Aging. (1993) Nov-Dec;14(6):699-702. No abstract available.
- Gorman LK, Shook BL, Becker DP. *Traumatic brain injury produces impairments in long-term and recent memory.* Brain Res. (1993) Jun 18;614(1-2):29-36.
- Alkon DL, Amaral DG, Bear MF, Black J, Carew TJ, Cohen NJ, Disterhoft JF, Eichenbaum H, Golski S, Gorman LK, et al. *Learning and memory.* FESN Study Group. Brain Res Brain Res Rev. (1991) May-Aug;16(2):193-220. Review.
- Patterson FR, Gorman LK, Wetzell MC. *Advantages of a simple contact switch for human locomotion.* Am J Phys Med. (1984) Feb;63(1):11-7.

BOOK CHAPTERS

- Olton DS, Markowska AL, Voytko, ML, Givens, B, Gorman, L, and Wenk, GL. *Basal Forebrain Cholinergic System: A Functional Analysis.* In: The Basal Forebrain: An Anatomy to Function. TC Napier, BW Kavlivas and I Hanin (eds), New York, Plenum Press, 1991, 353-372.
- Gorman, LK and Woody CD. *Actions of Acetylcholine on Cortical Neurons: Pieces in the Puzzle about Mechanisms Underlying Learning.* In: Activation to Acquisition. Functional Aspects of the Basal Forebrain Cholinergic System. RT Richardson (ed.), Boston, Birkhauser, 1991, 167-187.