

NAME Jeffrey Michael Long		POSITION TITLE Instructor of Biochemistry	
eRA COMMONS USER NAME			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Towson State University	B.S.	1984-88	Economics and
University of Utah	Ph.D.	1990-96	Psychology

Research and/or Professional Experience:

1989-1990 Psychologist, Gerontology Research Center, Baltimore, MD
1993-1996 Psychometrician, LDS Hospital, Salt Lake City, UT
1990-1996 Research Assistant, University of Utah, Salt Lake City, UT
1996-2000 IRTA Postdoctoral Fellow, National Institute on Aging, Baltimore, MD
2000-2001 Senior Postdoctoral Fellow, UCSD, School of Medicine, La Jolla, CA
2001-2002 Postgraduate Researcher, UCSD, School of Medicine, La Jolla, CA
2002-2005 Assistant Professor- In Residence, UCSD, School of Medicine, La Jolla, CA
2005- Instructor of Biochemistry, UT Southwestern Medical Ctr., Dallas, TX

Honors and Awards:

1999 Recipient, Glenn Award- American Aging Association
1998 Recipient, Alzheimer Association Fellowship Award- Thirty-first Annual WCBR.
1996 Commendation for excellence in research- Dept. of Psychology, Univ. of Utah.
1995 Recipient, NIMH National Research Service Award.
Title: Mnemonic Properties of Rodent Parietal Cortex.
1995 Commendation for excellence in research- Dept. of Psychology, Univ. of Utah.

Selected publications:

Long, J.M., Davis, B.J., Garofalo, P., Spangler, E.L., & Ingram, D.K. (1992). Complex maze performance in young and aged rats: response to glucose treatment and relationship to blood insulin and glucose. *Physiology and Behavior*, 51, 411-418.

Ingram, D.K., Wiener, H.L., Chachich, M.E., **Long, J.M.**, Hengemihle, J., & Gupta, M. (1993). Chronic treatment of aged mice with L-deprenyl produces marked striatal MAO-B inhibition but no beneficial effects on survival, motor performance, or nigral lipofuscin accumulation. *Neurobiology of Aging*, 14, 431-440.

Kametani, H., Spangler, E.L., Bresnahan, E.L., Kobayashi, S., **Long, J.M.**, & Ingram, D.K. (1993). Impaired acquisition in a 14-unit T-maze following medial septal lesions in rats is correlated with lesion size and hippocampal acetylcholinesterase staining. *Physiology and Behavior*, 53, 221-228.

Markowska, A. L., **Long, J.M.**, Johnson, C., Olton, D.S. (1993). Variable-interval probe test as a tool for repeated measurements of spatial memory in the water maze. *Behavioral Neuroscience*, 107, 627-632.

Long, J.M., and Kesner, R.P. (1995). Phencyclidine (PCP) impairs temporal order memory for spatial locations in rats. *Pharmacology, Biochemistry and Behavior*, 52, 645-648.

Kesner, R.P., Hunt, M.E., Williams, J.M, and **Long, J.M.** (1996) Prefrontal cortex and working memory for egocentric spatial, allocentric spatial and visual object information in the rat. *Cerebral Cortex*, 6, 311-318.

Long, J.M., and Kesner, R.P. (1996) The effects of dorsal vs. ventral hippocampal, total hippocampal, and parietal cortex lesions on memory for allocentric distance in rats. *Behavioral Neuroscience*, 110, 922-932.

Long, J.M., and Kesner, R.P. (1998) The effects of hippocampal and parietal cortex lesions on memory for

- egocentric distance and spatial location information in rats. *Behavioral Neuroscience*, 112, 480-495.
- Long, J.M.**, Mellem, J., and Kesner, R.P. (1998) The effects of parietal cortex lesions on an object/spatial location paired associate task in rats. *Psychobiology*, 26, 128-133.
- Kesner, R.P., and **Long, J.M.** (1998) The parietal cortex and a cognitive spatial map. *Psychobiology*, 26, 162-166.
- Long, J.M.**, Kalehua, A.N., Muth, N.J, Hengemihle, J.M., Jucker, M., Calhoun, M.E., Ingram, D.K., and Mouton, P.R. (1998) Stereological estimation of total microglia number in mouse hippocampus. *Journal of Neuroscience Methods*, 84, 101-108.
- Long, J.M.**, Kalehua, A.N., Muth, N.J, Hengemihle, J.M., Jucker, M., Calhoun, M.E., Ingram, D.K., and Mouton, P.R. (1998) Stereological analysis of astrocyte and microglia in aging mouse hippocampus. *Neurobiology of Aging*, 19, 497-503.
- Calhoun, M.E, Kurth, D., Phinney, A.L., **Long, J.M.**, Hengemihle, J., Mouton, P.R., Ingram, D.K., and Jucker, M. (1998) Hippocampal neuron and synaptophysin-positive bouton number in aging C57BL/6J mice. *Neurobiology of Aging*, 19, 599-606.
- Hengemihle, J.M., **Long, J.M.**, Betkey, J., Jucker, M., and Ingram, D.K. (1999) Age-related psychomotor and spatial learning deficits in 129/SvJ mice. *Neurobiology of Aging*, 20, 9-18.
- Long, J.M.**, Mouton, P.R., Jucker, M., and Ingram, D.K. (1999) What counts in brain aging? Design-based stereological analysis of cell number. *The Journal of Gerontology: Biological Sciences*, 54A, B407-B417.
- Ingram, D.K., and **Long, J.M.** Commentary on "Age-dependent increase in infarct volume following photochemically induced cerebral infarction: Putative role of astroglia. (2000) *Journal of Gerontology: Biological Sciences*, 55A, B142-B143.
- Jucker, M., Bondolfi, L., Calhoun, M., **Long, J.M.**, and Ingram, D.K. (2000) Structural brain aging in inbred mice: potential for genetic linkage. *Experimental Gerontology*, 35, 1383-1388.
- Lee, J. Duan, W., **Long, J.M.**, Ingram, D.K., and Mattson, M.P. (2000). Dietary restriction increases survival of newly generated neural cells and induces BDNF expression in the dentate gyrus of rats. *Journal of Molecular Neuroscience*, 15, 99-108
- Luo, Y.Q., **Long, J.M.**, Spangler, E.L., Longo D.L., Ingram, D.K., and Weng N.-P. (2001) Identification of maze learning associated genes in rat hippocampus by cDNA microarray. *Journal Molecular Neuroscience*, 17, 397-404.
- Wang, Y., Tan, J., Sutton-Smith, M., Ditto, D., Panico, M., Campbell, R.M., Varki, N.M., **Long, J.M.**, Jaeken, J., Levinson, S.R., Wynshaw-Boris, A., Morris, H.R., Le, D., Dell, A., Schachter, H. and Marth, J.D. (2001). Modeling a human congenital disorder of glycosylation type IIa in the mouse: conservation of asparagine-linked glycan-dependent functions in mammalian physiology and insights into disease pathogenesis. *Glycobiology*, 11, 1051-1070.
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