

M. Behnam Ghasemzadeh, Ph.D.
Curriculum Vitae

Current Position:

Associate Professor, Department of Biomedical Sciences, Marquette University, Milwaukee, WI

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Department of Biomedical Sciences

Marquette University

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Milwaukee, WI 53233

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Education:

1990 Ph.D., Bioanalytical Chemistry; Neurochemistry
 University of Kansas, Lawrence, Kansas 66045
 Advisor: Ralph N. Adams, Ph.D.

1986 B.S., Chemistry
 Jackson State University, Jackson, Mississippi 39203

Prof

PUBLICATIONS:

Ziegler D, Cullinan WE, **Ghasemzadeh MB** (2008) Distribution of Homer proteins in adult rat brain. Submitted for Publication, Currently Under Revision.

27. **Ghasemzadeh MB**, Mueller CR, Vasudevan P (2009) Behavioral sensitization to cocaine is associated with increased glutamate receptor trafficking to the postsynaptic density after extended withdrawal period. *Neuroscience* 159: 414-426

26. **Ghasemzadeh MB**, Vasudevan P, Mueller CR, Seubert C, Mantsch JR (2009) Region specific alterations in glutamate receptor expression and subcellular distribution following extinction of cocaine self-administration. *Brain Research* 1267: 89-102.

25. **Ghasemzadeh MB**, Vasudevan P, Mueller CR (2009) Locomotor sensitization to cocaine is associated with distinct pattern of glutamate receptor trafficking to the postsynaptic density in the prefrontal cortex: early versus late withdrawal effects. *Pharmacology, Biochemistry and Behavior* 92: 383-392.

24. **Ghasemzadeh MB**, Vasudevan P, Mueller CR, Seubert C, Mantsch JR (2009) Neuroadaptations in the cellular and postsynaptic group1 metabotropic glutamate receptor mGluR5 and Homer protein in the brain

15. Lu X-Y, **Ghasemzadeh MB**, Kalivas PW (1999) Expression of glutamate receptor/subunit messenger RNA's for NMDAR1, GluR1 and mGluR5 by accumbal projection neurons. *Brain Research*, 63:287-296.

14. Lu X-Y, **Ghasemzadeh MB**, Kalivas PW (1998) Expression of D1, D2, substance P and enkephalin mRNAs in the projection neurons from the nucleus accumbens. *Neuroscience* 82 :767-780.

13. Sarkar DK, Pastorcic M, De A, Engel M, Moses H, **Ghasemzadeh MB** (1998) Role of Transforming Growth Factor (TGF)-b type I and TGF-b type II receptors in the TGF-b1-regulated gene expression in pituitary prolactin-secreting lactotropes. *Endocrinology*

39. **M.B. Ghasemzadeh**, C. Miller*, U. Gupta,"Mutual interactions between dopamine and glutamate signaling in the nucleus accumbens." 35th Annual meeting Society for Neuroscience, 2005. Washington, DC.

38. **M.B. Ghasemzadeh**, W.E. Cullinan, T.Y. Baszler, U. Gupta,"Persistent reduction in nucleus accumbens Homer proteins after chronic variable stress: A link between stress and sensitization." 5th International Meeting on Metabotropic Glutamate Receptors, Sicily-Italy, 2005.

27. **M.B. Ghasemzadeh**, M.S. Bowers, L.K. Windham, K.M. McChesney, R.W. Lake, P.F. Worley, P.W. Kalivas, "Homer proteins and cocaine mediated behavioral plasticity." 4th International meeting on metabotropic glutamate receptors, September 15-20, 2002. Taormina, Sicily, Italy.

26. P.W. Kalivas, S. Mackler, **M.B. Ghasemzadeh**, S. Toda, "Changes in gene expression induced by repeated psychostimulant administration." International Catecholamine Meeting,

expression of behavioral sensitization to cocaine." Annual meeting of American College of Neuropsychopharmacology, 1997.

14. **M.B. Ghasemzadeh**, L.C. Nelson, P.W. Kalivas, "Glutamate receptor mRNA expression after behavioral sensitization to cocaine." 27th Annual Meeting Society for Neuroscience, 1997.

13. R.C. Pierce, **M.B. Ghasemzadeh**, E.A. Quick, Z.R. Morgan, D. Reeder, P.W. Kalivas, "The role of calcium/calmodulin-dependent protein kinase II in behavioral sensitization to cocaine." 27th Annual Meeting Society for Neuroscience, 1997.

12. L. Churchill, **M.B. Ghasemzadeh**, P.W. Kalivas, "Glutamate receptor subunits (GluR1 and NMDAR1) increase in the nucleus accumbens of rats 3 weeks after repeated cocaine exposure." 27th Annual Meeting Society for Neuroscience, 1997. Abstract No. 104.3.

11. X.-Y. Lu, **M.B. Ghasemzadeh**, L. Churchill, P.W. Kalivas, "Substance P in the two major subpopulations of projection neurons within the nucleus accumbens." 26th Annual Meeting Society for Neuroscience, 199

with carbon fiber electrodes.", Presented by R.N. Adams at 40th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, GA, 1989. Abstract No. 1013.

1. **M.B. Ghasemzadeh**, P. Capella, R.N. Adams, "Investigation of electrically stimulated release from the locus coeruleus-norepinephrine system in thalamus using in vivo voltammetry." 19th Annual Meeting Society for Neuroscience, 1989. Vol. 15, Abstract No. 482.10.

AWARDS AND HONORS

- 2009 Kohler Center for Entrepreneurship Business Plan Competition:
Best Overall Plan Runner-Up (for a drug discovery company)
- 1986 First year Graduate Student award
Department of Chemistry
University of Kansas

SPEAKING PRESENTATIONS:

- 2007 Department of Pharmacology, Rosalind Franklin School of Medicine, Chicago
2005 Department of Biology, Marquette University
2005 Center for Addiction and Behavioral Health Research (CABHR), Univ. of Wisconsin, Milwaukee
2003 Department of Psychology, Univ. of Wisconsin, Milwaukee
2002 5th International Meeting on Metabotropic Glutamate Receptors, Taormina, Sicily, Italy

RELATED ACTIVITIES:

2003-Present Neuroanatomical Dissection: Human Brain andss5 0 0 45 0 0 Tm/F2.0 1 45 952 30sc q 000 4

GRANT FUNDING:

Title: Glutamate Signaling and Drug Abuse
Funding Agency: NIDA/NIH R01
Total Amount: \$ 1,023,327
Duration: 6 years (2002 - 2008)
Role: PI (50% effort)
This grant is currently in the one-year no-cost extension period.

Title: Glutamate Receptor and Chronic Cocaine
Funding Agency: NIDA/NIH R03
Total Amount: \$ 100,000
Duration: 2 years (1999 - 2001)
Role: PI (50% effort)

Title: A new N-type calcium channel in monoaminergic neurons
Funding Source: Institutional Research Grant, Medical University of South Carolina
Total Amount: \$22,000
Duration: 1 year (2000 - 2001)
Role: PI (50% effort)

Title: Modulation of glutamate receptor gene expression by chronic cocaine treatment
Funding Source: Washington State Alcohol and Drug Abuse Program
Total Amount: \$ 25,000
Duration: 1 year (1997 - 1998)
Role: PI (50% effort)

Title: Correlative maturation of dopamine and glutamate receptors in developing striatum: An mRNA Amplification study in defined, single cells.
Funding Source: Scottish Rite Research Foundation
Total Amount: \$ 60,000
Duration: 2 years (1993 - 1995)
Role: PI (50% effort)

SERVICE:

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