

CURRICULUM VITAE
Amir H. Rezvani,
BS, MS Ed., MS, Ph.D.

Personal Information:

Dept. of Psychiatry and Behavioral Sciences
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Duke University Medical Center
Durham, NC 27701
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US Citizen

EDUCATION:

Postdoctoral Fellow - Sept. 1983 to Sept. 1985
University of North Carolina, School of Medicine, Chapel Hill, NC

Ph.D. - October, 1983
Doctor of Philosophy in Physiology
Dept. of Physiology and Biophysics, Univ. of Illinois, Urbana-Champaign, IL

M.S. - November, 1978
Master of Science in Biology
The University of Central Missouri, Warrensburg, MO

M.S.Ed. - November, 1976
Master of Science Education (Major, Biology)
Schools of Sciences and Education, Tehran University

B.S. - June, 1970
Bachelor of Science in Biology
School of Sciences, Tehran University

EMPLOYMENT HISTORY:

Professor of Psychiatry and Behavioral Sciences
Department of Psychiatry and Behavioral Sciences
Duke University Medical Center, Durham, NC
2010- Present

Professor of Psychology and Neuroscience
Duke University Medical Center, Durham, NC
2010- Present

Associate Professor

Department of Psychiatry and Behavioral Sciences
Duke University Medical Center, Durham, NC
July 2003-2010

Adjunct Associate Professor

School of Social Work
The University of North Carolina at Chapel Hill
September 1999-present

Research Assistant Professor

Department of Psychiatry
Duke University Medical Center, Durham, NC
April 2000-June 2003

Research Assistant Professor

Integrated Toxicology Program
Duke University Medical Center, Durham, NC
2002-present

Research Associate Professor

Department of Social Medicine
The University of North Carolina
School of Medicine at Chapel Hill
September 1997-2001

Research Associate Professor

Department of Psychiatry
The University of North Carolina
School of Medicine at Chapel Hill
March 1994-1999

Research Assistant Professor

Department of Psychiatry
The University of North Carolina School of Medicine at Chapel Hill
September 1987-March 1994

Teaching

Alcohol: Brain, Individual, and Society
Dept. of Psychology and Neuroscience
Duke University, Durham, NC Spring 2000-present

Substance Abuse and Addiction: Social and Scientific Perspectives
Second Year Medical Students
UNC-School of Medicine, Chapel Hill, NC 1990-2000

Alcohol, Tobacco, and Other Drugs: Biomedical Basis
Social workers and substance abuse practitioner
UNC- School of Social Work, Chapel Hill, NC 1998-2009

Biomedical Basis of Addiction
North Carolina School for Alcohol and Drug Studies,
Wilmington, NC (a one-week summer course) 1998-2002

Human Physiology - 1979-1983
Animal Physiology - 1980-1983
Stereotaxic Neurosurgery - 1982-1983
Dept. of Physiology and Biophysics
Univ. of Illinois Urbana-Champaign, Urbana-Champaign, IL

Animal Physiology
Dept. of Biology, 1978-1979
The Univ. of Central Missouri, Warrensburg, MO
Biological Sciences
Tehran High Schools, 1972-1976
Tehran, Iran

Director
Medline Department
National Library of Medicine, Tehran, 1975-1976

Associate Director
Medical Laboratory of the Army Hospital
Kermanshah, Iran, 1970-1971

PROFESSIONAL SOCIETIES:

Research Society on Alcoholism
Society for Neuroscience
International Behavioral Neuroscience Society
Behavioral Toxicology Society
Society for Research on Nicotine and Tobacco

PROFESSIONAL SERVICES:

Member of Congressional Liaison Committee (CLC)
for the Society for Neuroscience, 2002-present.

Science Fellow, (The Dean Appointee) the Governor's Institute on Alcohol and
Substance Abuse, Inc.

The task included the development of a curriculum on alcohol and substance abuse for the UNC School of Medicine at Chapel Hill, 1992-1996.

Editor, Center Line, a quarterly publication on alcoholism and alcohol abuse by Skipper Bowles Center for Alcohol Studies, 1990-1995.

Program Director, 14th Annual Symposium, North Carolina Alcoholism Research Authority, 1990.

Program Director, 15th Annual Symposium, North Carolina Alcoholism Research Authority, 1991.

Field Editor, Neuroendocrinology

Science Matters, a monthly publication on alcoholism and alcohol abuse by Alcoholism and Drug Research Communications Center, TX, 1992-1994.

Advisory Board Member, SCI-MAT (Science Matters in Battle Against Alcoholism and Related Disease), 1994-1996.

Member of the Substance Abuse Course Committee, UNC School of Medicine at Chapel Hill, 1992-2002.

Member of Board of Directors,
Triangle Residential Options for Substance abusers (TROSA)
Durham, NC, 2001-present.

Member of Joint Steering Committee for Public Policy,
Biomedical Research Advocacy, 2002-present

Scientific Journals Referee

Alcohol
Alcohol and Alcoholism
Alcoholism: Clinical and Experimental Research
Archive of General Psychiatry
Behavioral Brain Research
Behavioral Neuroscience
Behavioral Pharmacology
Biochemical Pharmacology
Biological Psychiatry
Brain Research
Brain Research Bulletin
Drug and Alcohol Dependence
European Journal of Pharmacology
Life Sciences
Neuropsychopharmacology
Nicotine and Tobacco Research
Pharmacology, Biochemistry and Behavior

Pharmacology & Toxicology
Physiology and Behavior
Progress in Neuro-psychopharmacology and Biological Psychiatry
Psychological Reports
Psychopharmacology

GRANTS AND CONTRACTS:

- Research Grant - June 1986-May 198 (PI)
Interaction between ethanol and endogenous opioids on CNS transmitters.
Sponsor: N.C. Alcoholism Research Authority
- Research Grant – Sept. 1988-Aug. 1989 (PI)
Central ethanol-calcium interactions: Behavioral and biochemical implications.
Sponsor: N.C. Alcoholism Research Authority
- Research Grant - August 1990 - June 1993 (PI)
Involvement of neuronal Ca²⁺-channels in alcohol seeking behaviors.
Sponsor: N.C. Alcoholism Research Authority
- Research Grant – Aug. 1990 - June 1993 (Co-Investigator)
Ethanol preference and hippocampal excitatory synaptic transmission.
Sponsor: N.C. Alcoholism Research Authority
- Contract - 1991-1994 (PI)
Involvement of a novel Ca²⁺ channel antagonist, in alcohol-seeking behavior.
Sponsor: Knoll Pharmaceuticals
- Contract - 1992-1994
- Effect of a Ca²⁺ channel antagonist on alcohol intake in chronically drinking primates (PI)
Sponsor: Miles, Inc.
- Contract - 1993-1997 (PI)
Effect of a novel TRH analogue on alcohol seeking behavior in primates.
Sponsor: Tanabe Seiyaku Co., Japan
- Research Grant - April 1994-April 1997 (Co-Investigator)
Interaction of Alcohol and the HPT-Axis
Sponsor: NIAAA (NIH)
- Research Grant –Oct. 1994-Sept. 1995 (Co-Investigator)
Development of Herbal Suppressors for Alcohol Intake
Sponsor: NIAAA/NIDA (NIH)
- Educational Grant - June 1997 (PI)

Establishment of a Web Site on Drug Abuse and Addiction for the School of Medicine.

Sponsor: UNC School of Medicine at Chapel Hill.

Educational Grant July 1998 (PI)

Multimedia Case Presentation on Substance Abuse and Addiction: An Interactive Web site.

Sponsor: UNC School of Medicine at Chapel Hill.

Service-Learning Course Development Grant- July 1998-June 2001 (PI)

Substance Abuse and Addiction: Social and Scientific Perspectives.

Sponsor: UNC at Chapel Hill.

Research Grant –Oct. 2002-Sept. 2003 (PI)

Effects of a novel J&J compound on alcohol intake

Sponsor: Johnson & Johnson Pharmaceutical

Research Grant –Sept. 2003- Oct. 2004 (PI)

Effects of a novel J&J compound on anxiety

Sponsor: Johnson and Johnson Pharmaceutical

Research Grant –Sept. 2003- Oct. 2004 (PI)

Effects of a two novel J&J compounds on alcohol intake

Sponsor: Johnson & Johnson Pharmaceutical

Research Contract-July 2007-Nov. 2010 (PI)

Chronic effect of a novel J&J compound on alcohol intake

Sponsor: Johnson and Johnson Pharmaceutical

Research Contract- August 2010-July 2011 (PI)

Effects of novel selective ALDH2 antagonists on alcohol intake in rats

Sponsor: Gilead Sciences INC.

Research Grant- July 2010- July 2015 (PI)

Rodents with genetic differences in alcohol preference

Sponsor: NIAAA (NIH)

Research Grant- July 2010-July 2015 (Co-Investigator)

Novel ligands that selectively desensitize $\alpha 4\beta 2$ nAChRs for smoking cessation

Sponsor: NIDA (NIH)

ADMINISTRATIVE ACTIVITIES:

Assistant Director, Skipper Bowles Center for Alcohol Studies

UNC School of Medicine, Chapel Hill

September, 1987-1995

Organizer of Seminars and Forums
Skipper Bowles Center for Alcohol Studies
University of North Carolina School of Medicine at Chapel Hill

Coordinator of Annual Meetings
North Carolina Alcoholism Research Authority
1987-1990

Member of Course Committee on Substance Abuse, UNC School of Medicine, 1992-2000.

Member of Substance Abuse Certification Program Advisory Committee, School of Social Work, The University of North Carolina at Chapel Hill, 1998-2010

Member of Board of Directors,
Triangle Residential Options for Substance Abusers (TROSAs),
Durham, NC, 2003-present

Member of Institutional Animal Care and Use Committee, Duke University
2003-present

Advisor to Persian Students Association, Duke University
2002-present

PUBLICATIONS

1. Gordon, C.J., A.H. Rezvani, M.E. Fruin, S. Trautwein and J.E. Heath. Rapid brain cooling in the free-running hamster (*Mesocricetus auratus*). *J. Applied Physio.* 51:1349-1354, 1981.
2. Rezvani, A.H., C.J. Gordon and J.E. Heath. Action of direct preoptic/anterior hypothalamus injections of beta-endorphin on temperature regulation in awake rabbits. *Am. J. Physiol.* 243:R104-R111, 1982.
3. Rezvani, A.H. and J.E. Heath. Reduced thermal sensitivity in the rabbit by beta endorphin injections into the preoptic/anterior hypothalamus. *Brain Res.* 292:297-302, 1984.
4. Gordon, C.J., A.H. Rezvani and J.E. Heath. Role of beta-endorphin in the control of body temperature in the rabbit. *Neurosci. Biol. Rev.* 8:73-82, 1984.
5. Myers, R.D., A.H. Rezvani and L.A. Gurley-Orkin. New double-lumen polyethylene cannula system for push-pull perfusion of brain tissue in vivo. *J. Neurosci. Methods* 12:205-218, 1985.

6. Beleslin, D.B., A.H. Rezvani and R.D. Myers. Divergent action of verapamil perfused in two hypothalamic areas on body temperature of the cat. *Neurosci. Lett.* 57:307-312, 1985.
7. Rezvani, A.H., D.M. Denbow and R.D. Myers. Alpha-melanocyte- stimulating hormone infused by ICV fails to affect body temperature or endotoxin fever in the cat. *Brain Res. Bull.* 16:99-105, 1986.
8. Rezvani, A.H., P. Huttunen and R.D. Myers. Effect of morphine and ethanol on neuronal release of norepinephrine from the hypothalamus: Relation to body temperature. *Ann N.Y.A.S.* 473:516-519, 1986.
9. Rezvani, A.H., K.T. McManus and R.D. Myers. Rate of *in vivo* verapamil exchange within hypothalamus of the cat determined by push-pull perfusion. *Neurochem. Res.* 11:1643-1651, 1986.
10. Rezvani, A.H., D.B. Beleslin and R.D. Myers. Neuroanatomical mapping of hypothalamic regions mediating verapamil hyper- and hypothermia in the cat. *Brain Res. Bull.* 17:249-254, 1986.
11. Beleslin, D.B., A.H. Rezvani and R.D. Myers. Dissociation of locomotor impairment from mydriasis evoked by clonidine injected into cat's rostral hypothalamus. *Brain Res. Bull.* 17:379-385, 1986.
12. Rezvani, A.H., S.I. Covi, C.M. Mack and R.D. Myers. Central Ca²⁺-channel blockade reverses ethanol induced poikilothermia in the rat. *Alcohol* 3:273-279, 1986.
13. Myers, R.D., D.B. Beleslin and A.H. Rezvani. Hypothermia: Role of α_1 - and α_2 -noradrenergic receptors in hypothalamus of the cat. *Pharmacol. Biochem. Behav.* 26:373-379, 1987.
14. Beleslin, D.B., A.H. Rezvani and R.D. Myers. Rostral hypothalamus: A new neuroanatomical site of neurochemically-induced emesis in the cat. *Brain Res. Bull.* 19:239-244, 1987.
15. Lee, T.F., A.H. Rezvani, J.R. Hepler and R.D. Myers. Neurotensin releases norepinephrine differentially from the hypothalamus of the sated and fasted rat. *Am. J. Physiol.* 252:E102-E109, 1987.
16. Gordon, C.J., F.S. Mohler, W.P. Watkinson, and A.H. Rezvani. Temperature regulation in laboratory mammals following acute toxic insult. *Toxicology* 53:161-178, 1988.

17. Gordon, C.J., L. Fogelson, F. Mohler, A.G. Stead and A.H. Rezvani. Behavioral thermoregulation in the rat following the oral administration of ethanol. *Alcohol and Alcoholism* 23:383-390, 1988.
18. Carl, P.L., L.X. Cubeddu, C. Lindley, R.D. Myers and A.H. Rezvani. Do humoral factors mediate cancer chemotherapy-induced emesis? *Drug Metabolism Reviews* 21:187-201, 1989.
19. Overstreet, D.H., D.S. Janowsky and A.H. Rezvani. Alcoholism and depressive disorders: Is cholinergic sensitivity a biological marker? *Alcohol and Alcoholism* 24:253-255, 1989.
20. Rezvani, A.H., D.M. Collins and A.C. Sena. Measurement of extracellular calcium ions within the hypothalamus of the freely-moving cat: A novel approach. *Journal of Liquid Chromatography* 12:1323-1332, 1989.
21. Kawakami, M., A.A. Meyer, M.C. Johnson and A.H. Rezvani. Immunologic consequences of acute ethanol ingestion in rats. *Journal of Surgical Research* 47: 412-417, 1989.
22. Rezvani, A.H., C.M. Mack, P.A. DeLacy and D.S. Janowsky. Verapamil effects on physiological and behavioral responses to ethanol in the rat. *Alcohol and Alcoholism* 25:51-58, 1990.
23. Overstreet, D.H., A.H. Rezvani and D.S. Janowsky. Increased hypothermic responses to ethanol in rats selectively bred for cholinergic supersensitivity. *Alcohol and Alcoholism*, 25:59-65, 1990.
24. Faggin, B.M., J.K. Zubieta, A.H. Rezvani and L.X. Cubeddu. Neurotensin-induced dopamine release in vivo and in vitro from substantia nigra and nucleus caudate. *J.Pharmacol.Exp.Therapeutics* 252:817-825, 1990.
25. Rezvani, A.H. and D.S. Janowsky. Decreased of alcohol consumption by verapamil in alcohol preferring rats. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 14:623-631, 1990.
26. Morrisett, R.A., A.H. Rezvani, D.H. Overstreet, D.S. Janowsky, W.A. Wilson and H.S. Swartzwelder. MK-801 potently inhibits alcohol withdrawal seizures in rats. *Europ J. Pharmacol* 176:103-105, 1990.
27. Overstreet, D.H., A.H. Rezvani and D.S. Janowsky. Impaired active avoidance responding in rats selectively bred for increased cholinergic function. *Physiology and Behavior* 47:787-788, 1990.

28. Pucilowski, O., D.H. Overstreet, A.H. Rezvani and D.S. Janowsky. Effect of verapamil on submissive behavior in genetically bred hypercholinergic rats in a water competition test. *European Journal of Pharmacology*, 187:507-511, 1990.
29. Overstreet, D.H., S.C. Dilsaver, A.H. Rezvani and D.S. Janowsky. Selective antagonistic effects of exposure to bright light on the hypothermic action of ethanol. *Alcohol and Alcoholism*, 25:661-665, 1990.
30. Rezvani, A.H., D.H. Overstreet and D.S. Janowsky. Reduction in ethanol preference following injection of centrally and peripherally acting antimuscarinic agents. *Alcohol and Alcoholism* 25:3-7, 1991.
31. Owens, M.J., D.H. Overstreet, D.L. Knight, A.H. Rezvani, G. Bissette, D.S. Janowsky and C.B. Nemeroff. Alterations in the hypothalamic-pituitary-adrenal axis in a genetic model of depression with cholinergic supersensitivity. *Neuropsychopharmacology*, 4:87-94, 1991.
32. Kish, S.J., R. Kleinert, M. Minauf, J. Gilbert, G.F. Walter, C. Slimovitch, E. Maurer, A.H. Rezvani, R. Myers, O. Hornykiewicz. Brain neurotransmitter changes in three patients who had a fatal hyperthermia syndrome. *American Journal of Psychiatry*, 147:1358-1364, 1990.
33. Rezvani, A.H., D.H. Overstreet and D.S. Janowsky. Genetic serotonin deficiency and alcohol preference in the Fawn-Hooded rats. *Alcohol and Alcoholism*, 25:573-575, 1990.
34. Rezvani, A.H., D.R. Grady and D.S. Janowsky. Effect of Ca^{++} -channel blockers on alcohol preference in alcohol-drinking monkeys. *Alcohol & Alcoholism*, 26:161-167, 1991.
35. Overstreet, D.H., S.C. Dilsaver, D.S. Janowsky and A.H. Rezvani. Effects of bright light on responsiveness to a muscarine agonist in rats selectively bred for endogenously increased cholinergic function. *Psychiatry Research* 33:139-150, 1990.
36. Rezvani, A.H., D.H. Overstreet and D.S. Janowsky. Drug-induced reductions in ethanol intake in alcohol preferring and fawn-hooded rats. *Alcohol and Alcoholism*, Suppl. 1:433-437, 1991.
37. Pucilowski, O., D.H. Overstreet, A.H. Rezvani and D.S. Janowsky. Effects of calcium channel inhibitors on the hypothermic response to oxotremorine in normo and hypercholinergic rats. *J. Pharm. Pharmacol*, 43:436-439, 1991.

38. Pucilowski, O., W. Danysz, D.H. Overstreet, A.H. Rezvani, B. Eichelman and D.S. Janowsky. Decreased hyperthermic effect of MK-801 in selectively bred hypercholinergic rats. *Brain Res. Bull*, 26:621-626, 1991.
39. Pucilowski, O., B. Eichelman, D.H. Overstreet, A.H. Rezvani, D.S. Janowsky. Enhanced affective aggression in genetically bred hypercholinergic rats. *Neuropsychobiology*, 24:37-41, 1991.
40. Pucilowski, O., Rezvani, A.H., Janowsky, D.S. Suppression of alcohol and saccharin preference in rats by a novel Ca²⁺ channel inhibitor, GOE 5438. *Psychopharmacol.*, 107:447-452, 1992.
41. Rezvani, A.H., Garbutt, J.C., Shimoda, K., Garges, P.L., Janowsky, D.S., Mason, G.A. Attenuation of alcohol preference in alcohol preferring rats by a novel TRH analogue TA-0910. *Alcoholism Clin Exp Res* 16:326-330, 1992.
42. Overstreet, D.H., Rezvani, A.H., Janowsky, D.S. Genetic animal models of depression and ethanol preference provide support for cholinergic and serotonergic involvement in depression and alcoholism. *Biol. Psychiat* 31:919-936, 1992.
43. Overstreet, D.H., Rezvani, A.H., Janowsky, D.S. Maudsley reactive and nonreactive rats differ only in some tasks reflecting emotionality. *Physiol & Behav* 52:149-152, 1992.
44. Ayensu, W.K., A.H. Rezvani, D.H. Overstreet, O. Pucilowski and D.S. Janowsky. Ethanol and complement hemolytic activity of selectively-bred hypercholinergic rats. *Alcohol and Alcoholism*, 27:47-54, 1992.
45. Rezvani, A.H., Garges, P.L., Miller, D. and Christopher J. Gordon. Attenuation of alcohol consumption by MDMA in two strains of alcohol drinking rats. *Pharmacol Biochem Behav* 43:103-107, 1992.
46. Rezvani, A.H., Grady, D.R. and Olgierd Pucilowski. Nimodipine, a Ca²⁺ channel antagonist, attenuates alcohol preference in alcohol preferring rats. *Drugs in Development* 2:143-151, 1993.
47. Overstreet, D.H., Kampov-Polveoy, A.B., Rezvani, A.H., Murrelle, L., Halikas, J.A. and David S. Janowsky. Saccharin intake predicts ethanol intake in genetically heterogeneous rats as well as different rat strains. *Alcohol Clin Exp Res* 17:366-369, 1993.
48. Pucilowski, O., Garges, P.L., Rezvani, A.H., and D.S. Janowsky. Verapamil suppresses d-amphetamine-induced place preference conditioning. *European J Pharmacol* 240:89-92, 1993.

49. Rezvani, A.H., O. Pucilowski, Grady, D.R., Janowsky, D.S. and R. O'Brien. Reduction of alcohol drinking and physical withdrawal by (S)-emopamil, a novel Ca²⁺ channel antagonist, in rats. *Pharmacol Biochem Behav* 46:365-371, 1993.
50. Overstreet, D.H., Rezvani, A.H., Pucilowski, O., Gause, L. and D.S. Janowsky. Rapid selection for serotonin-1A sensitivity in rats. *Psychiatric Genetics* 4:57-62, 1994.
51. Overstreet, D.H., Janowsky, D.S., Pucilowski, O. and A.H. Rezvani. Swim test immobility cosegregates with serotonergic but not cholinergic sensitivity in cross breeds of flinders line rats. *Psychiatric Genetics* 4:101-107, 1994.
52. Pucilowski, O., Rezvani, A.H., Overstreet, D.H. and D.S. Janowsky. Calcium channel inhibitors attenuate consumption of ethanol, sucrose and saccharin solutions in rats. *Behavioral Pharmacological* 5:494-501, 1994.
53. Polevoi-Kampov, A.B., Overstreet, D.H., Rezvani, A.H. and Janowsky, D.S. Suppression of ethanol intake in alcohol-preferring rats by prior voluntary saccharin consumption. *Pharmacol Biochem Behav.* 52:59-64, 1995.
54. Criswell, H.E., Overstreet, D.H., Rezvani, A.H., Johnson, K.B., Simson, P.E., Knapp, J.D., Moy, S.S. and Breese, G.R. Effects of ethanol, MK-801, and chlordiazepoxide on locomotor activity in different rat lines: Dissociation of locomotor stimulation from ethanol preference. *Alcohol Clin Exp Res* 18:917-923, 1994.
55. Mason, G.A., Rezvani, A.H., Grady, D.R., and Garbutt, J.C. The sub-chronic effects of the TRH analog TA-0910 and bromocriptine on alcohol preference in alcohol preferring (P) rats: development of tolerance and cross tolerance. *Alcohol Clin. Exp. Res.* 18:1196-1201, 1994.
56. Overstreet D.H., Rezvani, A.H., Pucilowski, O. and Janowsky, D.S. 5-HT receptors: Implications for the neuropharmacology of alcohol and alcoholism. *Alcohol Alcohol.* (Suppl. 2), 207-212, 1994.
57. Rezvani, A.H. and Grady, D.R. Suppression of alcohol consumption by fenfluramine in Fawn-Hooded rats with serotonin dysfunction. *Pharmacol Biochem Behav* 48:105-110, 1994.
58. Rezvani A.H., Overstreet DH, Ejantkar A and Gordon CJ. Autonomic and behavioral responses of selectively bred hypercholinergic rats to oxotremorine and diisopropyl fluorophosphates. *Pharmacol Biochem Behav* 48:703-707.

59. Ayensu, W.K., Pucilowski, O., Mason, G.A., Overstreet D.H. and Rezvani A.H., Effects of chronic mild stress on serum complement activity, saccharin preference, and corticosterone levels in Flinders lines of rats. *Physiol. Behav.* 57:165-169, 1995.
60. Rezvani, A.H., Peek, A.E., Grady, D.R. and O. Pucilowski. Inhibition of nitric oxide (NO) synthesis attenuated alcohol consumption in two strains of alcohol preferring rats. *Pharmacol Biochem Behav* 50:265-270, 1995.
61. Overstreet D.H., Pucilowski, O, Rezvani, A.H. and Janowsky, D.S. Administration of antidepressants, diazepam and psychomotor stimulants further confirms the utility of Flinders sensitive line rats as an animal model of depression. *Psychopharmacology*, 121:27-37, 1995.
62. Kampov-Polevoy, A.B., Overstreet, D.H., Rezvani, A.H. and D.S. Janowsky. Saccharin-induced increase in daily fluid intake as a predictor of voluntary alcohol intake in alcohol-preferring rats. *Physiol. Behav.*57:791-795, 1995.
63. Rezvani AH, Overstreet DH and Lee YW Attenuation of alcohol intake by Ibogaine in three strains of alcohol preferring rats. *Pharmacol. Biochem. Behav.* 52:615-620, 1995.
64. Overstreet D.H., McArthur, RA, Lee, DY, Rezvani, AH, Mason GA, Schreiber R, De Vry J, Sinclair D. Tomkins D, Spanage R, and Zieglansberger W. Alternatives to naltrexone in animal models. *Alcohol. Clin. Exp. Res.* 20: 231-235, 1996.
65. Pucilowski, O, Rezvani, AH and DH Overstreet. Role of taste aversion in calcium channel inhibitor-induced suppression of saccharin and alcohol drinking in rats. *Physiology Behavior* 59:319-324, 1996.
66. Mason GA., Rezvani AH, Overstreet, DH and Garbutt, JC. The thyrotropin releasing hormone analog TA-0910 reduces voluntary alcohol intake of P rats subchronically in a limited scheduled access paradigm. *Alcohol Clin. Exp. Res.* 20:1000-1003, 1996.
67. Overstreet DH, Rezvani AH, Knapp DJ, Crews FT and Janowsky DS. Further detection of rat lines differing in 5-HT-1a receptor sensitivity: Behavioral and functional correlates. *Psychiatric Genetics* 6:107-117, 1996.
68. Overstreet DH, and Rezvani AH. Behavioral differences between two inbred strains of Fawn-Hooded rats: a model of serotonin dysfunction. *Psychopharmacology* 128:328-330, 1996.

69. Overstreet, D.H., Lee, Y.W. and Rezvani, A.H. Suppression of alcohol intake following injection of the Chinese herbal medicine, XJL (NPI-028). *Alcohol. Clin. Exp. Res.* 20:221-227, 1996.
70. Rezvani AH, Overstreet DH, Ying Y, Maisonneuve IM, Bandarage UK, Kuehne ME, and Glick SD. Attenuation of alcohol consumption by a novel non-toxic ibogaine analog (18-Methoxycoronaridine) in alcohol preferring rats. *Pharmacol. Biochem. Behav.* 58:615-619, 1997.
71. Knapp DJ, Kampov-Polevoy AB, Overstreet, DH, Breese GR and Rezvani AH. Ultrasonic vocalizations in ethanol-preferring and non-preferring rat strains. *Alcohol Clin Exp Res* 21: 1232-1240, 1997.
72. Kampov-Polevoy AB, and Rezvani AH. Fluoxetine reduces saccharin-induced elevation of fluid intake in alcohol-preferring Fawn-Hooded rats. *Pharmacology Biochemistry and Behavior.* 58:51-54, 1997.
73. Rezvani AH, Garbutt, JC, Overstreet, DH, Li, L, Walker, CH and Mason GA. Thyrotropin releasing hormone analog TA-0910 suppresses alcohol intake in alcohol drinking African green monkeys. *Alcohol. Clin. Exp. Res.* 21:261-266, 1997.
74. Overstreet DH, Halikas JA, Serdenin SB, Kampov-Polevoy AB, Viglinskaya IV, Kashevskaya O, Badistov BA, Knapp DJ, Mormede P, Kiianamaa K, Li TK and Rezvani AH. Behavioral similarities and differences among alcohol-preferring and -nonpreferring rats: Confirmation by factor analysis and extension to additional groups. *Alcohol. Clin. Exp. Res.* 21: 840-848, 1997.
75. Mason GA, Rezvani AH, Overstreet DH, Hamed M, Walker CH, Yang Y, Garbutt JC: Involvement of dopamine D2 receptors in suppressive effect of the TRH analog TA-0910 on alcohol intake in P rats. *Alcohol. Clin. Exp. Res.* 21:1623-1629, 1997.
76. Overstreet DH, McArthur RA, Rezvani AH, Post C. Selective inhibition of alcohol intake in diverse alcohol preferring rat strains by 5-HT_{2A} antagonists amperozide and FG 5974. *Alcohol. Clin. Exp. Res.* 21:1448-1457, 1997.
77. Chen F, Rezvani AH, Jarrott B, Lawrence AJ. Distribution of GABA_A receptors in the limbic systems of alcohol-preferring and non-preferring rats: in situ hybridization histochemistry and receptor autoradiography. *Neurochem. Int.* 32:143-151, 1998.
78. Chen F, Rezvani AH, Jarrott B, Lawrence AJ. [³H]Zolpidem binding in alcohol-preferring and non-preferring rat brain. *Neuroscience Letters* 238:103-106, 1998.

79. Overstreet D.H., Lee, Y.W., Rezvani, A.H. and Chen T.C. The Chinese herbal medicine NPI-028 suppresses alcohol intake in alcohol-preferring rats and monkeys without inducing taste aversion. *Perfusion* 11:381-390, 1998.
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 174. Overstreet DH, Parsian A, Rezvani AH. High immobility and excess alcohol intake may be independent traits in the Fawn-Hooded rats, an animal model of comorbid depression and alcoholism. Presented at 11th Annual Meeting of International Behavioural and Neuronal Genetics Society, Dresden, Germany, June 4-8, 2009.
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176. Rezvani AH, Cauley MC, Sexton HG, Xiao Y, Kellar KJ, Levin ED. Sazetidine-A, a novel $\alpha 4\beta 2$ nicotinic receptor desensitizing agent, reverses dizocilpine and scopolamine-induced attentional impairments in rats. Presented at the 40th Annual Meeting of the Society for Neuroscience, San Diego, 2010.

BOOK CHAPTERS:

1. Rezvani, AH. (1992). 1-Propanol. In: *Ethel Browning's Toxicity and Metabolism of Industrial Solvents*, Vol. 3, Thurman, R.G. and Kauffman, F.C. eds., pp. 26-30. Elsevier, New York.
2. Rezvani, A.H. (1992). 2-Propanol. In: *Ethel Browning's Toxicity and Metabolism of Industrial Solvents*, Vol. 3, Thurman, R.G. and Kauffman, F.C. eds., pp. 31-37. Elsevier, New York.
3. Gordon, C.J. and A.H. Rezvani (1995). The role of temperature on neurotoxicology. In: *Handbook of Neurotoxicology*, Chang W.L. and Dyer R.S. eds., pp. 1049-1068, Marcel Dekker, Inc. New York.
4. Mason, G.A., Rezvani, A.H. and J.C. Garbutt (1995). Effects of TA-0910 a thyrotropin-releasing hormone analog, on alcohol intake in alcohol preferring rats. In: *Alcohol and Hormones*, R.R. Watson ed., pp. 161-176, Humana Press Inc., Totowa, N.J.
5. Kampov-Polevoy A.B., Overstreet D.H., Crosby R.D. Rezvani, A.H. Janowsky D.S. and Halikas J.A. (1995). Saccharin-induced polydipsia as a predictor of voluntary alcohol intake in wistar rats. In: *Biological Basis of Individual Sensitivity to Psychotropic Drugs*. Seredenin S.B., Longo V. and G. Gaviraghi, eds. pp. 293-298, Graffham Press Ltd. Edinburgh, Scotland.
6. Overstreet D.H., Rezvani, A.H., Pucilowski O., Janowsky D.S. Kampov-Polevoy A.B., and Halikas J.A. (1995). Biological correlates of ethanol intake in Fawn-Hooded-derived heterogenous rats. In: *Biological Basis of Individual Sensitivity to Psychotropic Drugs*. Seredenin S.B., Longo V. and G. Gaviraghi, eds. pp. 197-202, Graffham Press Ltd. Edinburgh, Scotland.
7. Overstreet DH, Rezvani AH, Ying Y, Hamedi M, Janowsky DS (1999). Animal model of chemical sensitivity involving cholinergic agents. In: *Toxicology in risk assessment*. Salem H., and Olajos J.E. eds. pp 75-94, Taylor & Francis, Philadelphia , PA.

8. Levin ED, Rezvani AH (2001). Nicotine involvement in memory functions of rats. In: *Nicotinic receptors in the nervous system*. Levin E.D. ed. pp167-178, CRC Press.
9. Levin ED, Rezvani AH (2006). Nicotinic –antipsychotic drug interactions and cognitive function. In: *Neurotransmitter interactions and cognitive function*. Levin E.D. ed. pp 185-205, Birkhäuser Verlag Berlin.
10. Rezvani AH (2006). Involvement of the NMDA system in learning and memory. In: *Animal models of cognitive impairment*. Levin E.D. and Buccafusco J.J. eds. pp 37-48, CRC Press.
11. Rezvani AH, Overstreet DH (2010). Depressed-like behavior and alcohol drinking are co-morbid but independent in the Fawn-Hooded Rats. In: *Suicidal behavior in alcohol and drug abuse and dependence*. Sher L. Vilens A. eds., pp. 27-38. Nova Science Publishers, Inc.

PRESENTATIONS:

A). Invited Lectures and Grand Rounds

1. University of North Carolina at Chapel Hill, NC, Neurobiology Program, November 15, 1984, "Endogenous Opioids and Thermoregulation."
2. Environmental Protection Agency, Experimental Biology Division, Research Triangle Park, NC "Is Alpha-melanocyte Stimulating Hormone Mediating Thermoregulation in the Cat?"
3. Central Missouri State University, Department of Biology, Warrensburg, MO, April 10, 1986, "Involvement of Endogenous Opioids in Control of Body Temperature."
4. Southwest Missouri State University, Department of Biology, Springfield, MO, April 11, 1986, "Involvement of Endogenous Opioids in Control of Body Temperature."
5. Sixth Annual Conference, Carolina Medical Professionals Group, Greensboro, NC, March 31, 1990, "Neurochemical Basis of Alcoholism and Addiction."
6. University of Central Missouri, Department of Biology, Warrensburg, MO, October 29, 1990, "Neuronal Mechanisms of Alcohol Addiction."
7. University of New Mexico, Dept. of Psychology, Albuquerque, NM, April 1, 1992, "Serotonin and Alcohol Addiction."
8. Institute for Pre-clinical Pharmacology, Miles Pharmaceuticals, April 2, 1992, "Effects of Nimodipine on Alcohol Consumption in Alcohol Preferring Rats."

9. University of Granada, Institute of Neuroscience, Granada, Spain, May 5th, 1992, "Neurobiology of Alcohol Addiction."
10. Texas College of Osteopathic Medicine, Department of Pharmacology, Ft. Worth, TX, Sept. 21, 1992, "Serotonin Involvement in Addiction."
11. Governor's Institute on Alcohol and Substance Abuse, Research Triangle Park, Oct. 16, 1992, "Neuropharmacology of Alcohol Dependency."
12. Dept. of Psychiatry, UNC School of Medicine, November 19, 1992, "The Role of Serotonin in Alcohol Addiction."
13. Dorothea Dix Hospital, Raleigh, NC, November 19, 1992, "The Role of Serotonin in Alcohol Dependency."
14. School of Dentistry, University of North Carolina at Chapel Hill, May 31, 1995, "Neurobiology of Substances of Abuse."
15. The Skipper Bowles Center for Alcohol Studies, University of North Carolina at Chapel Hill, Feb. 21, 1996, "Development of Medicines to Regulate Alcohol Intake."
16. North Carolina School of Substance Abuse, Wilmington, NC, August 1, 1996. "Genetic Aspects of Alcoholism."
17. School of Social Work, University of North Carolina at Chapel Hill, NC, Jan. 26, 1998. "Neuropharmacology of Substance Abuse and Addiction."
18. School of Medicine, Program on Aging, University of North Carolina at Chapel Hill, NC, April 22, 1998. "Alcoholism and Alcohol Abuse in Elderly."
19. Halifax Medical Center, Aug. 4, 1998. "Current Treatment of Chronic Alcoholism."
20. Department of Pharmacology, Howard University College of Medicine, Sept. 25, 1998. "Medication Development for the Treatment of Alcoholism."
21. Oak Hospital, Wilmington, NC, Dec. 3, 1998. "Drugs, the Brain, and Behavior."
22. Almanac Area Mental Health, Alamance, NC. Dec. 15, 1998. "Neurobiological Basis of Drug Abuse and Alcohol Dependency."
23. John Umstead Hospital, Butner, NC, Jan. 28, 1999. "Neuropharmacology of Substance Abuse."
24. US Environmental Protection Agency EPA, Research Triangle Park, NC. April 1, 1999. "Alcoholism: Etiology and Pharmacotherapy."

25. Department of Pharmacology, East Carolina University, Greenville, NC. April 16, 1999. "St. Johns Wort Attenuates Alcohol Intake in Alcohol Preferring Rats."
26. Hillsborough Rotary Club, Hillsborough, NC. May 27, 1999. "Biomedical Basis of Alcoholism."
27. North Carolina School for Alcohol and Drug Studies, Wilmington, NC, August 1-5, 1999. "Biomedical Basis of Addiction."
28. School of Medicine, University of North Carolina at Chapel Hill, NC, Program on Aging, April 11, 2001. "Alcoholism and Other Substances of Abuse Among Elderly People."
29. Dept. of Psychology, University of North Carolina at Chapel Hill, NC, February 13, 2002. "Comorbidity between Depression and Alcoholism: Insight from a Genetic Animal Model."
30. Beheshti Medical Center, Beheshti University, Tehran, Iran. Dec. 28, 2003 "Biological Basis of Addiction: Addiction as a Brain Disease."
31. Iran University of Medical Sciences & Health Services, Tehran Psychiatric Institute. Dec 27, 2004 "Biological and Genetic Aspects of Addiction."
32. University of Tehran, Faculty of Sciences, Dept. of Biology. Jan. 1, 2007 "Addiction as a Brain Disease: Biological and Genetic Aspects."
33. Duke University Translational Addiction Seminars. Duke University Medical Center, Feb. 1, 2008 "Cortical Dopamine and Nicotine Self-administration in Rats."
34. Triangle Residential Options for Substance Abusers, April 2, 2008. "Addiction: A Treatable Brain Disease."

B). Panels and Symposia

1. Twentieth Annual Winter Conference on Brain Research, Vail, Colorado, January, 1987, "Specialized Panel-Behavioral Actions of Organic Ca^{++} -Channel Agonists and Antagonists, Biochemical and Neuroanatomical Correlates".
2. 29th Annual Meeting of American College of Neuropsychopharmacology, San Juan, Puerto Rico, December, 1990, "Psychopharmacological Strategies and Biochemical Mechanisms for Decreasing Alcohol-Preference in Animals and Man." Co-chair.
3. Research Society on Alcoholism Annual Meeting, Steamboat Spring, Colorado, June 1995, "Pharmacological Manipulations of Alcohol Intake in Fawn-Hooded Rats".

4. Fortieth International Institute on the Prevention and Treatment of Dependencies, Amsterdam, June 30-July 5, 1996, "Suppressant Effects of Ibogaine and its Primary Metabolite on Alcohol Intake in Three Strains of Alcohol Preferring Rats."
5. Ninth International Society of Biomedical Research on Alcoholism Congress, Copenhagen, Denmark, June 27-July 2, 1998, "Combination Pharmacotherapy: Novel Potentially Effective Strategy for the Treatment of Alcoholism.", Chair
6. Thirty-third Annual Winter Conference on Brain Research, Breckenridge, Colorado, Jan. 22-Jan 29, 2000, "Combination Pharmacotherapy: Implications for Drug Addiction", Chair
7. Symposium on Nicotine Mechanisms in Alzheimer's Disease, Fajardo, Puerto Rico March 16-18, 2000, "Cognitive Effects of Nicotine."
8. Symposium on Plants and Psychopharmacology, The British Pharmaceutical Conference, Harrogate, UK, Sept. 15-17, 2003, "Can Plant Extract Help Treat Alcohol Dependence?"
9. Society for Research on Nicotine and Tobacco, Scottsdale, Arizona Feb. 18-21, 2004, "Adolescent vs. Adult Onset Nicotine Self-Administration in Rats."
10. Behavioral Toxicology Society, Research Triangle Park, NC. April 28-30, 2004, "Antipsychotic drugs impair selective attention in rats."
11. Third Annual Durham Health Summit, Durham, NC April 11, 2005, "The Science Based Perspective of Addiction-Prevention and Treatment."
12. Association for Behavioral Analysis, Atlanta, GA, May 26-30, 2006, Sex and Age Differences in a Rat Model of Adolescent-onset Nicotine Self-administration.

C). Workshops

1. Colorado, January, 1988, "Workshop - Can Basic Drug Mechanisms Be Used to Design Treatment for Alcoholism?"
2. Research Society on Alcoholism Annual Meeting, Steamboat Spring, Colorado, June 1995, Chairman, "Workshop - Do Animal Models of Alcohol Drinking Behavior Represent Human Conditions?"
3. Mountain Area Health Education Center, Asheville, NC, October 18, 2002. "Biomedical Basis of Addiction and Substance Abuse."

4. McLeod Addictive Disorder Center, Charlotte, NC, November 15, 2002. "Genetics of Alcoholism."
5. Mountain Area Health Education Center, Asheville, NC, Jan. 30, 2004. "Biomedical Basis of Addiction: Addiction as a Brain Disease."
6. Charlotte Area Health Education Center, Charlotte, NC, Nov. 12, 2004. "Biomedical and Genetic Aspects of Addiction."
7. Triangle Residential Options for Substance Abusers (TROSAs), Durham, NC, Nov. 23, 2005. "Addiction as a Brain Disease."
8. Triangle Residential Options for Substance Abusers (TROSAs), Durham, NC, Apr. 18, 2007. "Biomedical Aspects of Addiction."
9. Greensboro Area Health Education Center, Greensboro, NC, Sept. 15, 2007. "Biological and Genetic Aspects of Addiction."
10. Mountain Area Health Education Center, Asheville, NC, Oct. 15, 2007. "Addiction: a Brain Disease."
11. Southern Regional Area Health Education Center, Pembroke, NC, Sept. 23, 2008. "Biological Basis of Alcoholism: Alcoholism as a treatable brain disease."
12. Triangle Residential Options for Substance Abusers (TROSAs), Durham, NC, Nov. 24, 2009. "Addiction as a Treatable Brain Disease."
13. Eastern Area Health Education Center, Greenville, NC, Jan 26, 2010. "Addiction: A Treatable Brain Disease."
14. Naval Hospital Substance abuse Rehabilitation Program, Camp Lejeune, NC, March 26, 2010. "Addiction: A Treatable Brain Disease."
15. Fellowship Hall, Greensboro, NC , May 27, 2010. "Genetics of Addiction."
16. School of Government, the Univ. of North Carolina at Chapel Hill. Nov. 9, 2010. "Pharmacokinetic of Alcohol and its Physical Effects."
17. Triangle Residential Options for Substance Abusers (TROSAs), Durham, NC, Jan. 12, 2011. "Addiction as a Treatable Brain Disease: New perspectives."

D). Others

1. Voice of America (Persian Program), “Alcoholism: New perspectives and discoveries.” April 26, 1996.
2. “David Essel Live” talk show, “St. John’s Wort and Alcoholism.” July 26, 1998.