

Personal Data

Professional Address: Department of Veterans Affairs Puget Sound Health Care System
1660 South Columbian Way
GRECC (182B)
Seattle, WA 98108
(206) 764-2308

Education

1979 – 1986 M.D., University of Aachen Medical School, Germany

Postgraduate Training

1984 – 1985 and 1986 – 1988 Research Assistant, Institute of Brain Research,
University of Zurich, Switzerland
1988 – 1992 Psychiatry Resident, University of Washington Medical School
1991 – 1992 Chief Resident in Psychiatry, University of Washington Medical Center
1992 – 1995 Geriatric Psychiatry Fellow, Geriatric Research, Education and Clinical
Center, Seattle Veterans Affairs Medical Center

Faculty Appointments

1993 – 1995 Acting Instructor, Department of Psychiatry and Behavioral Sciences,
University of Washington School of Medicine
1995 – 1999 Acting Assistant Professor, Department of Psychiatry and Behavioral
Sciences, University of Washington School of Medicine and Associate
Investigator, Geriatric Research, Education and Clinical Center, Seattle
VA Medical Center
1999 – 2005 Lecturer, Department of Psychiatry and Behavioral Sciences, University
of Washington School of Medicine
since 2/2005 Research Assistant Professor, Department of Psychiatry and Behavioral
Sciences, University of Washington School of Medicine

Honors

1979 –1986 German National Merit Foundation Scholarship
1992 Director's Award, Department of Psychiatry and Behavioral Sciences, University
of Washington School of Medicine

Board Certification

1992 FLEX Examination
1994 Certification in Adult Psychiatry
1995 Certification in Geriatric Psychiatry

License to Practice

1986 Federal Republic of Germany# 555/86
1992 Washington # 025209 MD00030073

Organizations

since 1995 Society for Neuroscience

Publications

Szot, P., Ashleigh, E.A., **Kohen, R.**, Petrie, P., Dorsa, D.M., Veith, R. Norepinephrine transporter mRNA is elevated in the locus coeruleus following short- and long-term desipramine treatment. Brain Research 618: 308-312, 1993

- Kohen, R.**, Metcalf, M. A., Khan, N., Druck T., Huebner, K., Lachowicz, J. E., Sibley, D. R., Meltzer, H. Y., Roth, B. L. and Hamblin, M. W. Cloning, characterization and chromosomal localization of a human 5-HT₆ serotonin receptor. *Journal of Neurochemistry*, 66:47-56, 1996.
- Heidmann, D. E. A., Metcalf, M. A., **Kohen, R.**, Hamblin, M. W. Four 5-hydroxytryptamine₇ (5-HT₇) receptor isoforms in human and rat produced by alternative splicing: species differences due to altered intron-exon organization. *Journal of Neurochemistry*, 68: 1372-1381, 1997.
- Hamblin, M. W., **Kohen, R.**, Guthrie, C. and Heidmann, D.E.A. Gs protein-coupled serotonin receptors: receptor isoforms & functional differences. *Annals of the New York Academy of Sciences*, 861:31-7, 1998.
- Heidmann, D.E.A., Szot, P., **Kohen, R.** and Hamblin, M.W. Function and distribution of three rat 5-hydroxytryptamine₇ (5-HT₇) receptor isoforms produced by alternative splicing. *Neuropharmacology*, 37:1621-32, 1998.
- Kohen, R.**, Heidmann, D. E. A., Anthony, J., White, S. S., Hamblin, M. W., Szot, P. Changes in 5-HT₇ serotonin receptor mRNA expression with aging in rat brain. *Molecular Brain Research*, 79, 163-168, 2000
- Kohen, R.**, Fashingbauer, L. A., Heidmann, D. E. A., Guthrie, C. R., Hamblin, M. W. Cloning of the mouse 5-HT₆ serotonin receptor and mutagenesis studies of the third cytoplasmic loop. *Molecular Brain Research*, 90, 110-117, 2001
- Clark, M.S., Sexton, T.J., McClain, M., Root, D.C., **Kohen, R.**, Neumaier, J.F. Overexpression of 5-HT_{1B} receptor in dorsal raphe nucleus using HSV gene transfer increases anxiety behavior following inescapable stress. *J. Neuroscience*, 22, 4550-4562, 2002
- Kohen, R.**, Neumaier, J.F., Hamblin, M. W., Edwards, E. Congenitally learned helpless rats show abnormalities in intracellular signaling. *Biological Psychiatry*, 53, 520-529, 2003
- Kohen, R.**, Kirov, S., Navaja, G.P., Happe, H.K., Hamblin, M.W., Snoddy, J.R., Neumaier, J.F., Petty, F. Gene Expression Profiling in the Hippocampus of Learned Helpless and Non-helpless Rats. *Pharmacogenomics Journal* 2005; 5: 278-291
- Jarrett, M.E., **Kohen, R.**, Cain, K.C., Burr, R.L., Poppe, A., Navaja G.P., Heitkemper, M.M. Relationship of SERT Polymorphisms to Depressive and Anxiety Symptoms in Irritable Bowel Syndrome. *Biological Research for Nursing*, 2007; 9:161-169
- Mitchell P.H., Teri L., Veith R., Buzaitis A., Tirschwell D., Becker K., Fruin M., **Kohen R.**, Cain K.C. Living well with stroke: design and methods for a randomized controlled trial of a psychosocial behavioral intervention for poststroke depression. *Journal of Stroke & Cerebrovascular Diseases*, 2008; 17:109-115
- Kohen R.**, Cain K.C., Mitchell P.H., Becker K., Buzaitis A., Millard S.P., Navaja G.P., Teri L., Tirschwell D., Veith R. Association of Serotonin Transporter Gene Polymorphisms with Post-Stroke Depression. *Archives of General Psychiatry*, 2008; 65:1296-1302.

Non-Research Publications

- Kohen, R.**, Technology Transfer. *Science*, 286, 2296-2298, 1999

Research Support

Ongoing

NIH, NIMH Clinical Investigator Career Development (K08) Award
Molecular Genetics and Gene Expression in Psychiatric Disorders
1 K08 MH076098-01A2
5/1/2007 – 4/30/2012
Role: PI/Trainee
Investigation of large-scale gene expression patterns in the dentate gyrus of the hippocampus in postmortem human brain tissue of mentally ill subjects and healthy controls; correlation of gene expression patterns with polymorphisms of the serotonin transporter gene.

Completed

Department of Veterans Affairs Associate Investigator Award
Molecular Studies of the 5-HT₆ Serotonin Receptor
10/1/1995 – 9/30/1996
Role: PI
Investigation of structure-function relationships in the 5-HT₆ serotonin receptor.

Geriatric Academic Program Training Award NIA AG0-0503
The Role of the 5-HT₇ Serotonin Receptor in the Decay of Circadian Rhythms in Aging and Alzheimer's Disease
9/1/1996 – 8/30/2001
Role: Trainee
Study of age-related changes in 5-HT₇ serotonin receptor mRNA expression in rat brain.

NINDS administrative supplement to NS22517 Donoghue (PI)
Motor Cortex Reorganization
10/1/2000 – 4/30/2002
Role: Co-Investigator
Investigation of gene expression changes in rat prefrontal cortex induced by motor learning.

NARSAD Young Investigator Award
Gene Expression Analysis in Animal Models of Depression
7/1/2001 – 6/30/2003
Role: PI
Comparison of gene expression patterns in prefrontal cortex, hippocampus, hypothalamus, dorsal raphe and striatum of congenitally learned helpless and non-helpless animals.

Department of Veterans Affairs Merit Review Award Petty (PI)
Learned Helplessness Model of Stress
10/1/2002 – 9/30/2004
Role: Co-Investigator
Investigation of large-scale gene expression patterns in the hippocampus of rats exposed to the learned helplessness paradigm of stress.

NIH, NIMH R21 Award
1 R21 MH67641-01
4/01/2003 – 3/31/3006
Stress Resilience in an Animal Model of Depression
Role: PI
Investigation of large-scale gene expression patterns in the hippocampus of rats exposed to the forced swim test paradigm of stress.

3 R01 NR04142-06S1 Heitkemper (PI)
NIH/National Institute of Nursing Research
Supplement to: Nursing Management of IBS: Improving Outcomes
9/30/2003 – 1/31/2007
Role: Co-Investigator
Investigation of the influence of serotonin transporter polymorphisms on symptoms and psychiatric comorbidity in patients with irritable bowel syndrome (IBS).

Ruth Kohen, M.D.

January 2009

Alzheimer's Disease Research Center (ADRC) Pilot Study Award

5/1/2006 – 4/30/2007

P-Glycoprotein Genotyping in Alzheimer's Disease

Role: PI

Comparison of P-glycoprotein genotype among late-onset Alzheimer's disease cases and controls in the ADRC sample collection.

3 R01 NR007755-04S2 Mitchell (PI)

9/27/2005 – 2/28/2007

NIH/National Institute of Nursing Research

Supplement to: Psychosocial/Behavioral Intervention in Post-Stroke Depression

Role: Co-Investigator

Investigation of the influence of serotonin transporter polymorphisms on symptom severity and treatment response in patients with post-stroke depression.