CURRICULUM VITAE

March 2009

NANCY RUTLEDGE ZAHNISER

Professor & Associate Dean for Research Education University of Colorado Denver, School of Medicine Department of Pharmacology Mail Stop 8303, RC1-North 12800 East 19th Avenue, P18-6100 Aurora, Colorado 80045

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http://pharmacology.ucdenver.edu/faculty/zahniser

EDUCATION AND EMPLOYMENT HISTORY:

1966-1970	B.A. in chemistry, College of Wooster, Wooster, OH
1971	High School Science Teacher, Woodstock School, Mussoorie, U.P., India
1972-1977	Ph.D. in pharmacology, Department of Pharmacology, University of Pittsburgh, School
	of Pharmacy, Pittsburgh, PA (Dr. Israel Hanin, thesis advisor)
1977-1980	Postdoctoral fellow, Department of Pharmacology, School of Medicine (SOM), Univer-
	sity of Colorado Health Sciences Center (UCHSC), Denver, CO (Dr. Perry B. Molinoff,
	mentor)
1980-1981	Instructor, Department of Pharmacology, SOM, UCHSC, Denver, CO
1981-1987	Assistant Professor, Department of Pharmacology, SOM, UCHSC, Denver, CO
1985-1987	Assistant Professor, Neuroscience Program, SOM, UCHSC, Denver, CO
1987-1991	Associate Professor, Department of Pharmacology, Neuroscience Program and Medical
	Student Training Program (MSTP), SOM, UCHSC, Denver, CO
1991-present	Professor, Department of Pharmacology, Neuroscience Program and MSTP, SOM,
	University of Colorado Denver (UC Denver), Aurora, CO
1994	Sabbatical leave, Vollum Institute, Oregon Health Sciences University, Portland, OR
	(Dr. Susan G. Amara's laboratory)
1998-present	Professor, Biomedical Science Program (BSP), SOM, UC Denver, Aurora, CO
2003-2004	Vice Chair, Department of Pharmacology, SOM, UCDHSC, Aurora, CO
2004-2005	Acting Chair, Department of Pharmacology, SOM, UCDHSC, Aurora, CO
2005-2007	Vice Chair, Department of Pharmacology, SOM, UCDHSC, Aurora, CO
2006	Acting Chair, Department of Pharmacology, SOM, UCDHSC, Aurora, CO
2007-present	

RESEARCH INTERESTS:

- Cellular mechanisms regulating dopamine transporter trafficking and activity
- Role played by dopamine and glutamate systems in individual differences in cocaine-induced behavioral activation, addiction and toxicity
- Interactions of adenosine and dopamine in the basal ganglia and limbic systems

FELLOWSHIPS AND HONORS:

1976-1977 University of Pittsburgh Equalization Opportunity Grant 1978-1980 National Institutes of Health Postdoctoral Fellowship 1984-1986 Pharmaceutical Manufacturers Association Foundation Faculty Development Award 1992, 2002 Department of Pharmacology Faculty Award: Excellence in Teaching 1992-2002 Research Scientist Development Award from National Institute on Drug Abuse (NIDA) 1993-1995 Vice-Chair, Gordon Research Conference on Catecholamines 1994 Elizabeth Gee Memorial Lectureship Award, University of Colorado 1995-1997 Chair, Gordon Research Conference on Catecholamines 1998, 2001 UCHSC School of Medicine Medical Student Council Excellence in Teaching Award 1999-present 1999-present NIH MERIT Award (NIDA) 2000 Ph.D. thesis examiner, Karolinska Institute, Stockholm, Sweden 2001-2002 Secretary-Treasurer of the American Society for Pharmacology and Experimental Therapeutics (ASPET) 2002-present 2003-2006 NIH National Advisory Council on Drug Abuse 2003 University of Pittsburgh School of Pharmacy Distinguished Lecturer NIDA Council liaison to the NIDA Intramural Research Program 2004 First Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch School of Medicine 2005-2006 Fellow, Executive Leadership in Academic Medicine (ELAM) program 2006 Fellow, Executive Leadership in Academic Medicine (ELAM) program 2007-present 2007-present 2008 Pharmacology Predoctoral Training Grant (NIGMS) 2009 University of Pittsburgh School of Pharmacology Faculty Award: Excellence in Research 2009 University of Pittsburgh School of Pharmacy Distinguished Alumna Award	1974-1976	National Institutes of Health Predoctoral Traineeship
National Institutes of Health Postdoctoral Fellowship Pharmaceutical Manufacturers Association Foundation Faculty Development Award Department of Pharmacology Faculty Award: Excellence in Teaching Pharmaceutical Manufacturers Association Foundation Faculty Development Award Department of Pharmacology Faculty Award: Excellence in Teaching Pharmaceutical Manufacturers Association Foundation Faculty Development Award Department of Pharmacology Faculty Award: Excellence in Teaching Pharmaceutical Manufacturers Association Foundation Faculty Development Award Department of Pharmacology Faculty Award: Excellence in Teaching Pharmaceutics (Pharmacology Faculty Award: Excellence in Teaching Pharmaceutics (Pharmacology Award, University of Colorado Chair, Gordon Research Conference on Catecholamines UCHSC School of Medicine Medical Student Council Excellence in Teaching Award NIH MERIT Award (NIDA) Ph.D. thesis examiner, Karolinska Institute, Stockholm, Sweden Secretary-Treasurer of the American Society for Pharmacology and Experimental Therapeutics (ASPET) Pl. Postdoctoral Training Grant (NIAAA) Senior Scientist Award (NIDA) NIH National Advisory Council on Drug Abuse University of Pittsburgh School of Pharmacy Distinguished Lecturer NIDA Council liaison to the NIDA Intramural Research Program Cuots-present Pirst Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch School of Medicine Pellow, Executive Leadership in Academic Medicine (ELAM) program Pl. Pharmacology Predoctoral Training Grant (NIGMS) Third Annual Mariann Blum Lectureship in the Neurosciences, University of Texas Health Sciences Center, San Antonio Associate Dean for Research Education, UC Denver School of Medicine Cuots-present Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	1976-1977	<u> -</u>
1984-1986 Pharmaceutical Manufacturers Association Foundation Faculty Development Award 1992, 2002 Department of Pharmacology Faculty Award: Excellence in Teaching 1992-2002 Research Scientist Development Award from National Institute on Drug Abuse (NIDA) 1993-1995 Vice-Chair, Gordon Research Conference on Catecholamines 1994 Elizabeth Gee Memorial Lectureship Award, University of Colorado 1995-1997 Chair, Gordon Research Conference on Catecholamines 1998, 2001 UCHSC School of Medicine Medical Student Council Excellence in Teaching Award 1999-present 1999-present NIH MERIT Award (NIDA) 2000 Ph.D. thesis examiner, Karolinska Institute, Stockholm, Sweden 2001-2002 Secretary-Treasurer of the American Society for Pharmacology and Experimental Therapeutics (ASPET) 2001-2005 PI, Postdoctoral Training Grant (NIAAA) 2002-present Scientist Award (NIDA) 2002-2006 VIH National Advisory Council on Drug Abuse 2003 University of Pittsburgh School of Pharmacy Distinguished Lecturer 2003-2005 NIDA Council liaison to the NIDA Intramural Research Program 2004 First Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch School of Medicine 2005-2006 Peresent PI, Pharmacology Predoctoral Training Grant (NIGMS) 2007-present PI, Pharmacology Predoctoral Training Grant (NIGMS) 2007-present Associate Dean for Research Education, UC Denver School of Medicine 2007-present Member, NIDA Intramural Research Program Board of Scientific Counselors 2008 Department of Pharmacology Faculty Award: Excellence in Research	1978-1980	· · · · · · · · · · · · · · · · · · ·
1992, 2002 1992-2002 1993-1995 1994 1995 1996 1997-1997 1998, 2001 1998-1997 1998, 2001 1998-1998 1999-present 1998, 2001 1999-present 2001-2002 2002-present 2003-2006 2004 2004 2005-2006 2005-2006 2005-2006 2005-present 2006 2007-present 2006 2007-present 2007-present 2007-present 2007-present 2007-present 2007-present 2007-present 2007-present 2007-present 2008 2008 2008 2008 2008 2008 2008 200	1984-1986	•
1992-2002 Research Scientist Development Award from National Institute on Drug Abuse (NIDA) 1993-1995 Vice-Chair, Gordon Research Conference on Catecholamines 1994 Elizabeth Gee Memorial Lectureship Award, University of Colorado 1995-1997 Chair, Gordon Research Conference on Catecholamines 1998, 2001 UCHSC School of Medicine Medical Student Council Excellence in Teaching Award 1999-present 2000 Ph.D. thesis examiner, Karolinska Institute, Stockholm, Sweden 2001-2002 Secretary-Treasurer of the American Society for Pharmacology and Experimental Therapeutics (ASPET) 2001-2005 Pl, Postdoctoral Training Grant (NIAAA) 2002-present 2003 University of Pittsburgh School of Pharmacy Distinguished Lecturer 2003-2006 NIDA Council liaison to the NIDA Intramural Research Program 2004 First Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch School of Medicine 2005-2006 Fellow, Executive Leadership in Academic Medicine (ELAM) program 2005-present 2006 Third Annual Mariann Blum Lectureship in the Neurosciences, University of Texas Health Sciences Center, San Antonio 2007-present 2007-present 2008 Department of Pharmacology Faculty Award: Excellence in Research	1992, 2002	•
1994 Elizabeth Gee Memorial Lectureship Award, University of Colorado 1995-1997 Chair, Gordon Research Conference on Catecholamines 1998, 2001 UCHSC School of Medicine Medical Student Council Excellence in Teaching Award 1999-present 2000 Ph.D. thesis examiner, Karolinska Institute, Stockholm, Sweden 2001-2002 Secretary-Treasurer of the American Society for Pharmacology and Experimental Therapeutics (ASPET) 2001-2005 Pl, Postdoctoral Training Grant (NIAAA) 2002-present 2002-present 2003 Vill National Advisory Council on Drug Abuse 2003 University of Pittsburgh School of Pharmacy Distinguished Lecturer 2003-2005 NIDA Council liaison to the NIDA Intramural Research Program 2004 First Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch School of Medicine 2005-2006 Fellow, Executive Leadership in Academic Medicine (ELAM) program 2005-present 2006 Pl, Pharmacology Predoctoral Training Grant (NIGMS) 2007-present 2007-present 2007-present 2007-present 2008 Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	1992-2002	· · · · · · · · · · · · · · · · · · ·
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Fellow, Executive Leadership in Academic Medicine (ELAM) program PI, Pharmacology Predoctoral Training Grant (NIGMS) Third Annual Mariann Blum Lectureship in the Neurosciences, University of Texas Health Sciences Center, San Antonio Associate Dean for Research Education, UC Denver School of Medicine Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	2004	First Annual "Israel Hanin Seminar", Dept. Pharmacology, Loyola University Stritch
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Third Annual Mariann Blum Lectureship in the Neurosciences, University of Texas Health Sciences Center, San Antonio 2007-present 2007-present Health Sciences Center, San Antonio Associate Dean for Research Education, UC Denver School of Medicine Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	2005-2006	
Health Sciences Center, San Antonio 2007-present Associate Dean for Research Education, UC Denver School of Medicine Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	-	
2007-present Associate Dean for Research Education, UC Denver School of Medicine 2007-present Member, NIDA Intramural Research Program Board of Scientific Counselors Department of Pharmacology Faculty Award: Excellence in Research	2006	<u> </u>
2007-present Member, NIDA Intramural Research Program Board of Scientific Counselors 2008 Department of Pharmacology Faculty Award: Excellence in Research		,
Department of Pharmacology Faculty Award: Excellence in Research	2007-present	Associate Dean for Research Education, UC Denver School of Medicine
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University of Pittsburgh School of Pharmacy Distinguished Alumna Award	2008	
	2009	University of Pittsburgh School of Pharmacy Distinguished Alumna Award

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

	1979-present	Society for Neuroscience (SFN)
	1982-present	American Society for Pharmacology and Experimental Therapeutics (ASPET)
	1992-2009	Research Society on Alcoholism (RSA)
1	2001-2009	International Society for Biomedical Research on Alcoholism (ISBRA)

EDITORIAL BOARDS:

1991-2003	Pharmacological Communications
1994-2008	CNS Neuroscience & Therapeutics
2001-present	Journal of Neuroscience Methods

JOURNAL REVIEWS:

1980-present Ad hoc reviewer: J. Neurosci., Neuroscience, J. Neurochem., J. Pharmacol. Exp. Ther., Mol. Pharmacol., Science, J. Biol. Chem., Alcohol Drug Res., Neurosci. Lett., Pharmacol. Biochem. Behav., Brain Res., Neurochem. Res., Life Sci., Biochem. Pharmacol., Alcohol, Alcohol. Clin. Exp. Res., Neuropsychopharmacology, J. Neurosci. Res., Neuropsychiatric Genetics, Curr. Pharmacogenomics, Proc. Natl. Acad. Sci. USA, Biol. Psychiatry, Curr. Drug Targets, Eur. J. Neurosci., Psychopharmacology, Synapse, Neuropharmacology, Prog. Neuro-Psychopharmacol., Biol. Psychiatr., Int. J. Neuropsychopharmacology

NATIONAL/INTERNATIONAL GRANT REVIEW PANELS:

1983-present	Ad hoc reviewer: NSF, Human Frontier Science Program, VA, NY Academy of Sciences
	and March of Dimes, North Dakota EPSCoR Seed Grant Program, Austrian Science
	Fund, and New Zealand Marsden Fund grant proposals
1984	NIA Program Project Site Visit Committee, ad hoc member
1986-1990	NIH Neurological Sciences Study Section (Subcommittee 2), regular member
1991-1995	NIDA Pharmacology II Study Section, regular member
1993	NIMH New Neuroscience of Mental Health Workshops, Neuropsychopharmacology
	Panel
1996	NIMH Special Emphasis Panel
1997	NIDA Neuropharmacology Research Subcommittee, ad hoc member
1998	NIMH Molecular, Cellular and Developmental Neurobiology Review Committee, ad
	hoc member
1998	NIDA Medication Development Special Emphasis Panel, ad hoc chair
1999	NIH Molecular, Cellular and Developmental Neurobiology-5 Special Emphasis Panel,
	ad hoc member
2000	NIH Special Emphasis Panel ZRG1-IFCN-2(3M), ad hoc member
2001	NIDA "Cutting Edge Basic Research Award" (CEBRA) Program Initiative
2005	Austrian Science Fund (FWF) grant application
2006	Human Frontier Science Program fellowship review
2007	NIDA "Cutting Edge Basic Research Award" (CEBRA) Program Initiative, reviewer
2007	NIGMS BRT-A (training grant) Review Committee, ad hoc member
2007	NIDA K99/R00 Review Committee, ad hoc member

NATIONAL COMMITTEES:

1985-1988	ASPET Subcommittee on Women in Pharmacology
1993-1999	Scientific Advisory Committee, The New England Regional Primate Center, Harvard
	Medical School
1996-1999	ASPET Neuropharmacology Executive Committee
1997-1998	WCBR Program Committee
1998-1999	NIDA Search Committee for the Director of the Division of Basic Research
1999-2000	ASPET Short Course/Continuing Education Committee

1999-present	Scientific Advisory Board, University of Texas Waggoner Center for Alcohol and
	Addiction Research
2000-2003	ASPET Council
2000-2003	ASPET Finance Committee and Investment Subcommittee
2000-2003	ASPET Council liaison to ASPET Committee on Minorities
2001	University of Texas Institute for Neuroscience Review Committee
2002	Search Committee for a Tenured Scientist in the Cellular Neurophysiology Branch,
	NIDA Intramural Research Program
2002-2006	NIH National Advisory Council on Drug Abuse
2002-2006	NIH National Advisory Council on Drug Abuse Steering Committee
2003	NIDA Intramural Research Program Board of Scientific Councilors
2003-present	Scientific Advisory Board for the Oregon Health and Sciences University Methamphet-
	amine Abuse Research Center (MARC)
2003-prsent	Scientific Advisory Board for the University of Utah NIH Program Project "Differential
	Effects of Methamphetamine and Cocaine"
2003-2005	NIDA Council liaison to the NIDA Intramural Research Program
2003-2005	"Kitchen Cabinet" Committee for 2005 Catecholamine Gordon Research Conference
2004-2006	ASPET Goodman and Gilman Award in Receptor Pharmacology Committee
2005	University of Utah Graduate Council External Review Committee for the Department of
	Pharmacology & Toxicology
2005-present	External Review Committee and Scientific Advisory Board for University of Kentucky
	Center for Drug Abuse Research Translation (CDART)
2006-2008	ASPET Awards Committee
2006-present	Society for Neuroscience Jacob P. Waletzky Memorial Award Committee
2007-present	NIDA Intramural Research Program (IRP) Board of Scientific Counselors
2008-2009	NIDA IRP Search Committee for Investigator (Tenure-Track)

ORGANIZATION OF NATIONAL MEETINGS: "Gordon Research Conference on Cate

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1995	"Gordon Research Conference on Catecholamines", co-organizer
1996	"Catecholamine Storage and Transporter" Theme, 8th International Catecholamine
	Symposium, co-organizer
1997	"Gordon Research Conference on Catecholamines", organizer
1998	Symposium for American Society for Neurochemistry Annual Meeting, "New Insights
	into Regulation of Monoaminergic Neurons: A Symposium in Honor of Dr. Norman
	Weiner", organizer
1998	Symposium for Experimental Biology Annual Meeting, "Genetic and Epigenetic
	Regulation of Monoamine Transporters", co-organizer
2000	ASPET Continuing Education Short Course for ASPET/ASBMB Annual Meeting,
	"Introduction to Receptors and Cell Signaling", co-organizer
2001	Symposium for Research Society on Alcoholism Annual Meeting, "Emerging Evidence
	for Interactions between Ethanol and Alcoholism and Monoamine Transporters", co-
	organizer
2002	Winter Conference on Brain Research panel, "Substrate-Mediated Regulation of Neuro-
	transmitter Transporters", organizer
2002	Dopamine 2002 Meeting session, "Presynaptic Mechanisms: Dopamine Synthesis,
	Release, and Reuptake", invited co-organizer

MENTORING OF THESIS STUDENTS, MEDICAL STUDENTS, AND POSTDOCTORAL FELLOWS AT UC DENVER:

1982-1986	Robert P. Yasuda, Ph.D. thesis research
1984-1988	Joanna Peris, postdoctoral research
1984-1987	Jerry A. Miller, postdoctoral research
1984-1986	Linda P. Dwoskin, postdoctoral research
1986-1989	Donald M. Burnett, Ph.D. thesis research
1986-1987	Carol M. Bier-Laning, medical student honors project
1988-1991	Wayne A. Cass, postdoctoral research
1990-1992	David R. Wallace, postdoctoral research
1990-1993	R. Dayne Mayfield, postdoctoral research
1992-1995	Elizabeth J. Cline, postdoctoral research
1994-1996	Margaret J. Velardo, Ph.D. thesis research
1994-1996	Si-Jia Zhu, postdoctoral research
1996-1998	Shelly D. Dickinson, postdoctoral research
1997-1998	Dan Zhou, postdoctoral research
1998-2002	Jilla Sabeti, Ph.D. thesis research
1998-2002	Taleen Hanania, postdoctoral research
1998-2002	Suzanne Doolen, postdoctoral research
1999	Hollie Wayment, postdoctoral research
2000-2004	Heather M. Haughey, postdoctoral research
2000-2004	Joshua M. Gulley, postdoctoral research
2002-2007	Brian R. Hoover, postdoctoral research
2003-2004	Sophia Briegleb, M.S. thesis research
2005-present	Bruce H. Mandt, Ph.D. thesis research
2006-present	Anna M. Nelson, Ph.D. thesis research
2006-present	Toni L. Richards-Winter, postdoctoral research
2007-present	David A. Price, postdoctoral research
2007-present	Dorothy J. Yamamoto, Ph.D. thesis research
2007-present	Melissa J. Kleschen, medical student "Mentored Scholarly Activity"

MENTORING OF FACULTY:

1986-1988	Mentor for Dr. Linda P. Dwoskin, Instructor in Department of Pharmacology, UCHSC
1986-1990	Co-Sponsor on CIDA Award of Dr. Sally J. Boyson, Department of Neurology, UCHSC
1993-1999	Mentor for Dr. R. Dayne Mayfield, Instructor in Department of Pharmacology, UCHSC
2002-2004	Mentor for Dr. Taleen Hanania, Instructor in Department of Pharmacology, UCHSC
2002-2006	Consultant on K08 Award of Dr. Jody Tanabe, Department of Radiology, UCDHSC
2002	Consultant for the revision of Howard Hughes starter grant of Dr. Irina Grichtchenko,
	Department of Physiology & Biophysics, UCHSC
2003-present	Mentor and Sponsor for K08 Award to Dr. Kennon Heard, Department of Surgery and
	Division of Emergency Medicine, UC Denver
2004-present	Mentor for Dr. Ulli Bayer, Department of Pharmacology, UC Denver
2006-present	"Senior distance mentor" for Dr. Habibeh Khoshbouei, Assistant Professor, Department
	of Biomedical Sciences, Meharry Medical College, Nashville, TN

FACULTY SABBATICALS IN MY LABORATORY:

1990-1991	Kim A. Heidenreich, Associate Professor, U California at San Diego
2007	Susan Schenk, Professor and Head of School of Psychology, Victoria U of Wellington,
	New Zealand
2008	Richard M. Allen, Associate Professor, Department of Psychology, UC Denver

COURSE DIRECTION AT UC DENVER:

1980-1981	Graduate Student Introductory Pharmacology course, director
1981-1982	Medical Student Pharmacology course, co-director of second quarter
1982	Graduate Student Membrane Pharmacology course, co-director
1983-1985	Medical Student Pharmacology course, co-director of second quarter
1984	Graduate Student Biochemical Neurotransmission course, director
1985-1989	Graduate Student Molecular Pharmacology course and laboratory, co-director
1990-1993	Medical Student Pharmacology course, co-director
1991	Neuropharmacology course for Third Year Psychiatry Residents, organizer
1994-1997	Graduate Student Molecular Pharmacology course, co-director
1997-1999	Medical Student Pharmacology course, co-director
1999-2000	Graduate Student Ethics in Research course, co-director
2002-2004	Graduate Student Pharmacology course, co-director
2005-2006	Medical Student Pharmacology course, co-director
2008	Pharmacology Advanced Elective: Drug Addiction Research, co-organizer and -director

TEACHING RESPONSIBILITIES:

1971	High school teacher (science, chemistry and physics), Woodstock School, Mussoorie,
	India
1972-1977	Laboratory Assistant in Pharmacy Student Pharmacology course and lecturer in Pharm-
	acy Student Physiology course, University of Pittsburgh School of Pharmacy
1980-1997	Lecturer in Graduate Student Introductory Pharmacology course, UCHSC
1981-1991	Lecturer in Dental Student Pharmacology course, UCHSC
1981-2005	Lecturer in Medical Student Pharmacology course, UCDHSC
1982	Lecturer in Graduate Student Membrane Pharmacology course, UCHSC
1984-1997	Lecturer in Graduate Student Neuropharmacology course, UCHSC
1984-1985	Lecturer in Graduate Student Biochemistry course, UCHSC
1985-1997	Participant in Graduate Student Molecular Pharmacology course, UCHSC
1989-1990	Lecturer in Graduate Student Gerontological Pharmacology course, UCHSC
1991-1993	Lecturer in Neuropharmacology course for Third Year Psychiatry Residents, UCHSC
1995	Lecturer in Basic Science Course for Neurology Residents, UCHSC
1996- 2002	Discussion Leader in Graduate Student Ethics course, UCHSC
1997	Discussion Leader in Endocrinology Journal Club, UCHSC
1998-2001	Lecturer in Graduate Student Biomedical Sciences Core Course, UCHSC
1998-2000	Lecturer in Graduate Neuroscience Molecules to Behavior course, UCHSC
-	Lecturer in Graduate Pharmacology course, UC Denver
1999	Lecturer in Current Topics in Neuroscience course, Regis University, Denver, CO
-	Lecturer in Graduate Cellular & Molecular Neurobiology course, UC Denver
2000	Lecturer in Graduate Frontiers in Pharmacology course, UCHSC
2002 2007	Lecturer in neuropharmacology for Neurology Residents, UCHSC
2002-2003	Discussion leader in Graduate Student Ethics course, UCHSC
2004, 2006,	Lecturer in Graduate Molecular Basis of Neuropsychiatric Disorders course, UC Denver
2008	
	Lecturer in Medical School integrated curriculum, UC Denver
2006	Lecturer in Graduate Tissue Biology and Disease Mechanisms, UC Denver
	Lecturer in neuropharmacology for Neurology Residents, UC Denver
2008	Lecturer in Pharmacology Advanced Elective: Drug Addiction Research, UC Denver
2008	Lecturer in Graduate Frontiers in Pharmacology, UC Denver

SUPERVISION OF STUDENT RESEARCH ROTATIONS AT UC DENVER:

1982	Danny Stene, Pharmacology graduate student
1983	Michael Hall, Pharmacology graduate student
1985	Michelle Mynlieff, Pharmacology graduate student
1986	Donald Burnett, Pharmacology graduate student
	Carol Bier-Laning, Medical student
	Karen Parfitt, Pharmacology graduate student
	Peter Huettl, Pharmacology graduate student
1987	Dianne Metcalf, MSTP student
1988	Lie-Huey Lin, Neuoscience graduate student
1989	Brandi Soldo, Pharmacology graduate student
	Janice Gleavy, Pharmacology graduate student

1990	Anne Wiser, Neuroscience graduate student
1991	Barbara Duff, Pharmacology graduate student
1991-1992	Danny Muskardin, Pharmacology graduate student
1992	James Brundage, Pharmacology graduate student
1993	Richard A. Orona, UC Denver undergraduate student
1993	Brett Masayesva, Alcohol Research Center summer undergraduate student
1993	Kelley Wear, Neuroscience graduate student
1993	T.K. Booker, Pharmacology graduate student
1995	Cheryl Bykowitz, Pharmacology graduate student
1996	Danielle Salaz, Alcohol Research Center summer undergraduate student
1997-1998	Jilla Sabeti, Pharmacology graduate student
1997	Kathleen Brady, Regis University senior internship
1998	Amy Henderson, MSTP graduate student
2002	Eric Horne, Pharmacology graduate student
2002	Katherine Barlow, Neuroscience graduate student
2002-2003	Beth Stubblefield, Pharmacology graduate student
2002-2003	Danielle Salaz, Pharmacy workstudy student
2003-2004	Sophia Briegleb, Neuroscience graduate student
2003	
	Anne M. Lyons, Alcohol Research Center summer undergraduate student
2004	Bruce Mandt, Pharmacology graduate student
2005	Tianna Hicklin, Neuroscience graduate student
2005	Anna Nelson, MSTP graduate student
2005	Rebekah Vest, Pharmacology graduate student
2005-2006	David Cantu, Neuroscience graduate student
2006	Dorothy Yamamoto, Pharmacology graduate student
2007	Carmen Sepulveda, Summer Undergraduate Research Fellowship (SURF) student
2008	Rachael Cave, SURF student

UC DENVER THESIS ADVISORY AND DEFENSE COMMITTEES:

1981-1985	Margaret Contreras, Dept. Pharmacology
1981-1986	Chris Bode, Dept. Pharmacology
1981-1985	Stewart Abramson, Dept. Pharmacology
1982	Susan Sadler, Dept. Pharmacology
1984	Larry Bazier, Dept. Pharmacology
1984	Mindy Fine, Dept. Pharmacology
1984-1987	Michael Hall, Dept. Pharmacology
1985-1988	Michelle Mynlieff, Dept. Pharmacology
1986	Ron Emeson, Dept. Physiology
1987-1991	David Sundin, Dept. Biochemistry, Biophysics and Genetics
1987-1990	Bruce Murrow, Dept. Physiology (MSTP)
1988-1991	Dianne Metcalf, Dept. Microbiology and Immunology (MSTP)
1989	Karen Parfitt, Dept. Pharmacology
1989	Peter Huettl, Dept. Pharmacology
1989	Lise Thomas, Dept. Pharmacology
1989-1993	Jordon Firestone, Dept. Pharmacology (MSTP)
1993	Jo Velardo, Neuroscience Program

1993	John Glod, Dept. Pharmacology (MSTP)
1993-1996	Yvonne Rollins, Dept. Pharmacology (MSTP)
1994-1995	Anne Wiser, Neuroscience Program
1994-1995	Carol Hope, Dept. Pharmacology
1995-1998	Kathy Farrow, Dept. Biochemistry, Biophysics and Genetics (MSTP)
1995-1998	Cristina Bäckman, Neuroscience Program
1995-1996	Valerie Whatley, Dept. Pharmacology
1995-1998	Marc Hurlbert, Dept. Pharmacology
1996-1999	Alex Hoffman, Dept. Pharmacology
1997	Dan David, Neuroscience Program
1997-1999	Elizabeth Gonzales, Dept. Pharmacology
1997-2002	Shelli Kirsten, Dept. Pharmacology - chair
1998-1999	Burns Blaxall, Dept. Pharmacology
2000-2001	David Grosshans, Dept. Pharmacology (MSTP)
2002-2005	Erik Maclaren, Dept. Pharmacology - chair
2002-2004	Enrique Alavarez, Neuroscience Program (MSTP)
2004-2006	Brandon Cornejo, Dept. Pharmacology (MSTP) - chair
2004-2005	Christina Rapp Prescott, Neuroscience Program (MSTP) - chair
2004-2006	Roman Brunecky, Dept. Pharmacology
2005	Davin Korstjens, Dept. Pharmacology - chair
2006-2008	Adele Blackler, Dept. Pharmacology
2006-2008	Elizabeth Stubblefield, Dept. Pharmacology
2007-2008	Renee L. Good, Toxicology Program, School of Pharmacy
2007-present	Brian Ziemba, Dept. Pharmacology
2007-present	Tianna Hicklin, Neuroscience Program – chair
2008	Holly H. Robertson, Dept. Pharmacology
2008-present	Santiago Farias, Neuroscience Program

ADVISOR FOR UC DENVER GRADUATE STUDENT "MAJOR SEMINARS":

1981	Robert Yasuda
1982	Kevin Pang
1983	Michael Hall
1984	Linda Fossum
1991	David Flory
1997	Shelli Kirsten
2001	Jason Tregellas
2003	Brandon Cornejo
2004	Wei Hu
2005	Holly Hudson Robertson

UC DENVER COMPREHENSIVE EXAM COMMITTEES (Dept. Pharmacology, unless noted):

1981	Paula Bickford
1982	Joe Zirrolli, Peter Haroldson, Ron Emeson (Physiology)
1983	David Young (Physiology), Michael Hall
1984	Linda Fossum
1985	Kevin Caldwell
1986	Donald Burnett, David Sundin (Biochemistry, Biophysics and Genetics)
1987	Brian Regis (Microbiology and Immunology), David Engstrom, Bruce Murrow (Physiology)
1989	Dianne Metcalf (Microbiology and Immunology/MSTP), David Jones
1990	Jun Li, Ken Malcom, John Glod (MSTP)
1991	Janice Gleavy, Anya Lin
1992	Danny Muskardin
1993	Jo Velardo (Neuroscience), Rich Klinghoffer, Jason Frazier (Neuroscience)
1995	Tom Schlesinger (MSTP), Kathy Farrow (Biochemistry Biophysics and Genetics
	/MSTP), Teri Whisenand (Neuroscience), Gail Perez (Neuroscience), Christina Bäckman (Neuroscience)
1996	Alex Hoffman, Meleik Hebert (Neuroscience)
1990 1997	Devon Zastrow (Neuroscience), Chen Gu (Neuroscience), Leonard Kish (Neuroscience),
1997	Shelli Kirsten
1998	Larry Martinez, Michele Schaefer (Neuroscience)
2000	David Grosshans (MSTP)
2001	Enrique Alavarez (MSTP)
2003	Christina Rapp (MSTP/Neuroscience) - chair
2004	Davin Korstjens - chair
2005	Angela Zimmerman (Neuroscience), Adele Blackler
2006	Brian Ziemba, Tianna Hicklin (Neuroscience) – chair, Kennon Heard (Clinical Science)
2007	David Cantu (Neuroscience)
2008	Santigo Farias (Neuroscience)

UNIVERSITY OF COLORADO SYSTEM-WIDE COMMITTEES:

1995-1997	Elizabeth Gee Memorial Lecture Award Committee
2006-2007	Elizabeth Gee Award Committee

UC DENVER COMMITTEES:

1002	Cuadvata Faculty
-	Graduate Faculty Constitute of the Long Bongs Planning Committee
1984	Gerontology Subcommittee of the Long Range Planning Committee
1983-1985	Curriculum Review Committee
1985-1986	Search Committee for Department of Anesthesiology Chairperson
1985-1986	Salary Equity Review Committee
1986-1990	BRS Committee
1986-1990	Graduate Committee
1989-present	Ad hoc subcommittees of the Faculty Promotions Committee
1990-1991	Search Committee for Neuroscience Program Faculty
1991	Graduate Student Fellowship Competition Committee
1992-1993	Dean's Advisory Committee
1992-1993	Dean's Distinguished Seminar Series, sponsor
1992-1993	Search Committee for Department of Physiology Chairperson
1994-1997	Medical Student Promotions Committee
1994-present	MSTP Credentials Committee
1995-1998	Neuroscience Program Graduate Training Committee
1999-2000	Neuroscience Program Advisory Committee
2000	Neuroscience Program Training Grant Committee, chair
1999-2003	Medical Student Promotions Committee
1999-2000	Search Committee for Department of Psychiatry Chair
2000-2003	Faculty Senate, representative from the Department of Pharmacology
2001-2001	Neuroscience Program Seminar Committee
2001-2006	Neuroscience Program Membership Committee, chair
2001-2006	Neuroscience Program Steering Committee
2003-2004	Search Committee for Department of Pathology Chair
2003-2005	Women's Health Research Initiative, Advisory Committee
2004-present	Women in Medicine Committee
2004	MSTP Associate Director Search Committee
2004-2005	School of Medicine Executive committee
2004-2005	Basic Science Chairs Committee
2005-2006	Committee on Class Size & Tuition
2005-2006	SOM Task Force on Basic Science Reorganization
2006	Search Committee for School of Pharmacy Dean
2006-2007	Search Committee for UC Denver Vice Chancellor for Research
2007-2008	Clinical Translational Science Award (CTSA) Research Education Administration
	Committee
2007-present	School of Medicine Clinical Translational Advisory Committee (CTRAC)/Colorado
	Clinical Translational Science Institute (CCTSI) Internal Advisory Committee (IAC)
2007	UC Denver Learning Task Force
2007-present	BNAT Training Committee
	CCTSI Education Training and Career Development (ETCD) Executive Committee
2008-present	Research Advisory Committee (RAC), ad hoc member
2008-present	School of Medicine Faculty Promotions Committee
2009-present	UC Denver Accreditation Task Force 3

UC DENVER DEPARTMENT OF PHARMACOLOGY COMMITTEES:

1984-1991	Graduate Training Committee
1987-1990	Graduate Training Committee, chair
1990-2000	UPI/ICR Committee
1990-2001	Curriculum Committee
1994-1995	Graduate Training Committee
1994-1995	Departmental Programs Committee
1996-2004	Promotions Committee and Post-Tenure Review Committee
1997	Committee to Organize New Graduate Pharmacology Course, co-chair
2000-2003	School of Medicine Faculty Senate, departmental senator
2000-2002	Recent Publications Committee
2001-2006	Space Planning Committee
2002-2003	Departmental Self-Study Review Committee
2003	Departmental Retreat Planning Committee
2003-2008	Departmental Advisory Committee
2003-2004	Research Initiative Committee
2004-2005	Curriculum Committee, chair
2004	School of Medicine Faculty Senate, departmental senator
2005-present	Curriculum Committee
2005-2008	Promotions & Tenure Committee
2006-present	Post-tenure Review Committee
2009-present	Senior Space and Department Advisory Committee
2009-present	Medical Student Pharmacology Curriculum Review Committee

COMMUNITY SERVICE:

7/88	Aspen MSTP Student Conference, moderator
7/89	UCHSC Summer Minority Student Program, faculty mentor
1/90	Annual UCHSC Medical and Graduate Student Research Forum, judge
3/90	Scientific Careers for Women, University of Colorado at Boulder, lecturer
1/91	Regis High School "Shadow Program", faculty mentor
1/91	Annual UCHSC Medical and Graduate Student Research Forum, judge
1/92	Annual UCHSC Medical and Graduate Student Research Forum, judge
1/93	Annual UCHSC Medical and Graduate Student Research Forum, judge
1993	High school science lab, consultant
1/95	Annual UCHSC Medical and Graduate Student Research Forum, judge
1/96	Annual UCHSC Medical and Graduate Student Research Forum, judge
5/96	Brain Awareness Day, speaker
1/97	Annual UCHSC Medical and Graduate Student Research Forum, judge
12/97	Lab tour for groups of students from Horizon High School, faculty host
1/98	WCBR Town Meeting "Understanding Drug Abuse and Addiction: Myth vs. Reality",
	Salt Lake City, UT, panel member
9/98-12/98	Senior internship of Kathleen Brady (Regis University), mentor
1/99	Annual UCHSC Medical and Graduate Student Research Forum, judge
4/99	Judge for ASPET Division of Neuropharmacology Best Graduate Student Paper Award
1/01	Mentor for Evergreen High School Senior Seminar Project

2002-2005	SFN Annual Meeting mentoring program
10/03	Annual UCHSC Medical and Graduate Student Research Forum, judge
5/05	Rocky Mountain Regional Neuroscience Group spring meeting, poster judge
5/06	CU School of Medicine Alumni Weekend Fitzsimons Tour
1/08	Annual UC Denver Student Research Forum, judge
1/09	Annual UC Denver AMC Student Research Forum, judge

INVITED PRESENTATIONS:

7/81	Dept. Biology, University of Pittsburgh, Pittsburgh, PA
9/82	Surface Membrane Receptors Conference, UCHSC
12/84	Dept. Pharmacology, University of Pennsylvania, Philadelphia, PA
7/85	Gordon Research Conference on Catecholamines, Proctor Academy, NH
12/85	PMAF Annual Meeting, New York City, NY
4/86	Hoechst Pharmaceuticals, Somerville, NJ
11/86	Society for Neuroscience Short Course, Washington, D.C.
1/87	Winter Conference on Brain Research, Vail, CO
9/87	Dopamine 87, Hunter Valley, Australia
9/87 9/87	NIDA Technical Review on Cocaine, Bethesda, MD
12/87	AMA Creative Concepts in Cancer Conference, Vail, CO
4/88	Dept. Pharmacology, Cornell University, Ithaca, NY
5/88	
	FASEB Annual Meeting, Las Vegas, NV
9/88	NIDA Addiction Research Center, Baltimore, MD
9/88	Dept. Chemistry, College of Wooster, Wooster, OH
10/88	Dept. Anesthesiology, UCHSC
1/89	Winter Conference on Brain Research, Snowbird, UT
3/89	Dept. Pharmacology, University of Nebraska, Omaha, NE
10/89	Neurology Grand Rounds, UCHSC
12/89	Dept. Pharmacodynamics, University of Florida, Gainsville, FL
3/90	US/Taiwan Neurobiology Seminar, Taipai and Kenting, Taiwan
6/90	Dept. Pharmacology, Georgetown University, Washington, D.C.
7/90	Dopamine 90, Como, Italy
11/90	Dept. Biology, Colorado College, Colorado Springs, CO
1/91	Winter Conference on Brain Research, Vail, CO
4/91	Lafayette Clinic and Dept. Pharmacology, Wayne State University, Detroit, MI
5/91	Division of Clinical Pharmacology, Dept. Medicine, UCHSC
1/92	Winter Conference on Brain Research, Steamboat Springs, CO
3/92	School of Pharmacy, University of Colorado, Boulder, CO
6/92	7 th International Catecholamine Symposium, Amsterdam, The Netherlands
7/92	Alcoholism and Drug Abuse Program, Washington State University, Pullman, WA
10/92	Dept. Chemistry, Occidental College, Los Angeles, CA
1/93	Division of Clinical Pharmacology, Dept. Medicine, UCHSC
3/93	Dept. Chemistry, Middlebury College, Middlebury, VT
4/93	Festschrift for Dr. Norman Weiner, Colorado Springs, CO
7/93	Gordon Research Conference on Catecholamines, Proctor Academy, NH
11/93	Program in Neuronal Growth & Development, Colorado State Univ., Fort Collins, CO
5/94	Dept. Pharmacology, University of Pennsylvania, Philadelphia, PA

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9/94 10-11/94	Dept. Medical Psychology, Oregon Health Sciences Univ., Portland, OR
	Elizabeth Gee Memorial Lectures, University of Colorado
1/95	School of Pharmacy, University of Kentucky, Lexington, KY
1/95	Winter Conference on Brain Research, Steamboat Springs, CO
4/95	Division of Clinical Pharmacology, Dept. Medicine, UCHSC
5/95	Gordon Research Conference on Catecholamines, Barga, Italy
5/95	University Centre for Pharmacy, Groningen, The Netherlands
9/95	6 th Annual Colorado Clinical Scholars Program, Aspen, CO
11/95	Dept. Psychiatry Grand Rounds, UCHSC
1/96	Dept. Physiology, UCHSC
1/96	Winter Conference on Brain Research, Snowmass, CO
7/96	Pharmacia-Upjohn, Kalamazoo, MI
10/96	8 th International Catecholamine Symposium, Asilomar, CA
3/97	Division of Clinical Pharmacology, Dept. Medicine, UCHSC
8/97	FASEB Summer Research Conference on Drug Abuse, Copper Mountain, CO
10/97	NIDA Satellite Symposium, "Cocaine and a Changing Brain", New Orleans, LA
3/98	American Society for Neurochemistry Meeting, Denver, CO
3/98	Dept. Pharmacology & Physiology, University of Rochester, Rochester, NY
4/98	Dept. Psychiatry Grand Rounds, University of Michigan, Ann Arbor, MI
4/98	Dept. Pharmacology, University of Michigan, Ann Arbor, MI
4/98	Experimental Biology Annual Meeting, San Francisco, CA
3/99	Dept. Pharmacology and Toxicology, University of Utah, Salt Lake City, UT
5/99	Dept. Pharmacology, Vanderbilt University, Nashville, TN
6/99	Dept. Behavioral Neuroscience, Oregon Health Sciences University, Portland, OR
6/99	FASEB Summer Research Conference on Transporters, Copper Mountain, CO
7/99	Gordon Research Conference on Catecholamines, Oxford, England
11/99	Waggoner Center for Alcohol and Addiction Research, University of Texas, Austin TX
3/00	Karolinska Institute, Stockholm, Sweden
3/00	Texas Conference on the Neurobiology of Addiction, Austin, TX
1/01	Winter Conference on Brain Research, Steamboat Springs, CO
7/01	Gordon Research Conference on Catecholamines, Proctor Academy, NH
1/02	Neuroscience Program, University of Colorado, Boulder, CO
4/02	Dept. Physiology & Biophysics, University of Illinois, Chicago, IL
6/02	Taiwan-USA Seminar, Breckenridge, CO
9/02	Dept. Psychiatry, University of Texas Southwestern, Dallas, TX
4/03	Dept. Neurobiology, University of Texas, Austin, TX
5/03	Dept. Physiology & Neuroscience, Medical University of South Carolina, Charleston, SC
6/03	Parkinson's Disease Group, VAMC, Portland, OR
10/03	U Pittsburgh School of Pharmacy Distinguished Lecture Series, Pittsburgh, PA
8/04	Dept. Pharmacology "Israel Hanin Seminar", Loyola University, Chicago, IL
3/05	Neuroscience Program, Regis College, Denver, CO
3/05	Dept. Pharmacology, Vanderbilt University, Nashville, TN
4/05	Dept. Neural & Behavioral Sciences, Penn State College of Medicine, Hershey, PA
4/05	Neuroscience Program, UCDHSC, Aurora, CO
7/05	Gordon Research Conference on Catecholamines, Proctor Academy, NH
10/05	Dept. Pharmacology, UCDHSC, Aurora, CO
10/05	Dept. Pharmacology, Physiology & Therapeutics, U North Dakota, Grand Forks, ND
11/05	15 th Neuropharmacology Conference: Neurotransmitter Transporters, Washington, DC
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3/06	3 rd Annual Mariann Blum Lectureship in the Neurosciences, Dept. Pharmacology &
	Center for Biomedical Neuroscience, U Texas Health Sciences Center, San Antonio, TX
3/07	Neuroscience Program, Regis College, Denver, CO
5/07	Dept. Biomedical Sciences, Meharry Medical College, Nashville, TN
3/08	PITTCON (Pittsburgh Conference) Symposium, New Orleans, LA
4/08	ASBMB Symposium, EB '08 Meeting, San Diego, CA
4/08	Dept. Biological Sciences, U Texas El Paso, El Paso, TX
12/08	Dept. Anesthesiology, UC Denver, Aurora, CO
12/08	Dept. Pharmacology & Toxicology, U Utah, Salt Lake City, UT

PUBLICATIONS:

DOCTORAL DISSERTATION:

"Is 2-Dimethylaminoethanol (Deanol) a Precursor of Acetylcholine? A Neurochemical and Behavioral Investigation."

REFERED JOURNAL ARTICLES:

- 1. Zahniser, N.R., Chou, D. and Hanin, I. Is 2-dimethylaminoethanol (deanol) indeed a precursor of brain acetylcholine? A gas chromatographic evaluation. J. Pharmacol. Exp. Ther. <u>200</u>:545-559, 1977.
- 2. Zahniser, N.R., Katyal, S.L., Shih, T.-M., Hanin, I., Moossy, J., Martinez, A.J. and Lombardi, B. Effects of N-methylaminoethanol and N,N-dimethylaminoethanol in the diet of pregnant rats on neonatal rat brain cholinergic and phospholipid profile. J. Neurochem. 30:1245-1252, 1978.
- 3. Zahniser, N.R. and Molinoff, P.B. Effect of guanine nucleotides on striatal dopamine receptors. Nature 275:453-455, 1978.
- 4. Zahniser, N.R., Minneman, K.P. and Molinoff, P.B. Persistence of β-adrenergic receptors in rat striatum following kainic acid administration. Brain Res. 178:589-595, 1979.
- 5. Dibner, M.D., Zahniser, N.R., Wolfe, B.B., Rabin, R.A. and Molinoff, P.B. Brain neurotransmitter receptor systems in mice genetically selected for differences in sensitivity to ethanol. Pharmacol. Biochem. Behav. 12:509-513, 1980.
- 6. Rabin, R.A., Wolfe, B.B., Dibner, M.D., Zahniser, N.R., Melchior, C. and Molinoff, P.B. Effects of ethanol administration and withdrawal on neurotransmitter receptor systems in C57 mice. J. Pharmacol. Exp. Ther. 213:491-496, 1980.
- 7. Zahniser, N.R., Heidenreich, K.A. and Molinoff, P.B. Binding of ³H-amino-6,7-dihydroxy-1,2,3,4-tetrahydronapthalene to rat striatal membranes: Effects of purine nucleotides and ultraviolet irradiation. Mol. Pharmacol. <u>19</u>:371-378, 1981.
- 8. Zahniser, N.R. and Molinoff, P.B. Thermodynamic differences between agonist and antagonist interactions with binding sites for ³H-spiroperidol in rat striatum. Mol. Pharmacol. <u>23</u>:303-309, 1983.
- 9. Dunwiddie, T.V., Mueller, A.L., Bickford, P.C. and Zahniser, N.R. Electrophysiological and biochemical sequelae of the destruction of hippocampal noradrenergic afferents by DSP4. Brain Res. <u>269</u>:311-317, 1983.
- 10. Heidenreich, K.A., Zahniser, N.R., Berhanu, P., Brandenburg, D. and Olefsky, J.M. Structural differences between insulin receptors in the brain and peripheral target tissues. J. Biol. Chem. 258:8527-8530, 1983.
- 11. Zahniser, N.R. and Dubocovich, M.L. Comparison of dopamine receptor sites labeled by ³H-S-sulpiride and ³H-spiperone in striatum. J. Pharmacol. Exp. Ther. 227:592-599, 1983.
- 12. Zahniser, N.R., Goens, M.B., Hanaway, P.J. and Vinych, J.V. Characterization and regulation of insulin receptors in rat brain. J. Neurochem. <u>42</u>:1354-1362, 1984.
- 13. Yasuda, R.P., Zahniser, N.R. and Dunwiddie, T.V. Electrophysiological effects of cocaine in the rat hippocampus <u>in vitro</u>. Neurosci. Lett. <u>45</u>:199-204, 1984.
- 14. Scatton, B., Dubois, A., Dubocovich, M.L., Zahniser, N.R. and Fage, D. Quantitative autoradiography of ³H-nomifensine binding sites in rat brain. Life Sci. <u>36</u>:815-822, 1985.
- 15. Dubocovich, M.L. and Zahniser, N.R. Binding of the dopamine uptake inhibitor [³H]nomifensine to striatal membranes. Biochem. Pharmacol. <u>34</u>:1137-1144, 1985.

- 16. Fredholm, B.B., Zahniser, N.R., Weiner, G.R., Proctor, W.R. and Dunwiddie, T.V. Behavioural sensitivity to PIA in selectively bred mice is related to the number of A₁ adenosine receptors but not to cyclic AMP accumulation in brain slices. Eur. J. Pharmacol. <u>111</u>:133-136, 1985.
- 17. Yasuda, R.P., Dunwiddie, T.V. and Zahniser, N.R. The acute effects of 6-hydroxydopamine treatment on noradrenergic function in the rat hippocampus <u>in vitro</u>. Brain Res. <u>367</u>:121-127, 1986
- 18. Cooper, D.M.F., Bier-Laning, C.M., Halford, M.K., Ahlijanian, M.K. and Zahniser, N.R. Dopamine, acting through D-2 receptors, inhibits rat striatal adenylate cyclase by a GTP-dependent process. Mol. Pharmacol. <u>29</u>:113-119, 1986.
- 19. Zahniser, N.R., Weiner, G.R., Worth, T., Philpott, K., Yasuda, R.P., Jonsson, G. and Dunwiddie, T.V. DSP4-induced noradrenergic lesions increase β-adrenergic receptors and hippocampal electrophysiological responsiveness. Pharmacol. Biochem. Behav. <u>24</u>:1397-1402, 1986.
- 20. Dwoskin, L.P. and Zahniser, N.R. Robust modulation of ³H-dopamine release from rat striatal slices by D-2 dopamine receptors. J. Pharmacol. Exp. Ther. <u>239</u>:442-453, 1986.
- 21. Szefler, S.J., Edwards, C.K., III, Haslett, C., Zahniser, N.R., Miller, J.A. and Henson, P. Effect of cell isolation procedures and radioligand selection on the characterization of human leukocyte β-adrenergic receptors. Biochem. Pharmacol. 36:1589-1597, 1987.
- 22. Peris, J. and Zahniser, N.R. One injection of cocaine produces a long-lasting increase in [³H]-dopamine release. Pharmacol. Biochem. Behav. <u>27</u>:533-535, 1987.
- 23. Peris, J., Harris, R.A. and Zahniser, N.R. Modulation of gamma-[³H]aminobutyric acid release from rat cortical slices by α2-adrenoceptors. Neurosci. Lett. 80:309-314, 1987.
- 24. Miller, J.A. and Zahniser, N.R. The use of ¹⁴C-labeled tissue paste standards for the calibration of ¹²⁵I-labeled ligands in quantitative autoradiography. Neurosci. Lett. 81:345-350, 1987.
- 25. Miller, J.A., Hoffer, B.J. and Zahniser, N.R. An improved calibration procedure for computer-based quantitative autoradiography using a mathematical model for the nonlinear response of camera and film. J. Neurosci. Meth. <u>22</u>:233-238, 1988.
- 26. Dwoskin, L.P., Peris, J., Yasuda, R.P., Philpott, K. and Zahniser, N.R. Repeated cocaine administration results in supersensitivity of striatal D-2 dopamine autoreceptors to pergolide. Life Sci. <u>42</u>:255-262, 1988.
- 27. Miller, J.A., Curella, P. and Zahniser, N.R. A new densitometric procedure to measure protein levels in tissue slices used in quantitative autoradiography. Brain Res. <u>447</u>:60-66, 1988.
- 28. Miller, J.A. and Zahniser, N.R. Quantitative autoradiographic analysis of ¹²⁵I-pindolol binding in Fischer 344 rat brain: Changes in β-adrenergic receptor density with aging. Neurobiol. Aging 9:267-272, 1988.
- 29. Peris, J., Dwoskin, L.P. and Zahniser, N.R. Biphasic modulation of evoked [³H]D-aspartate release by D-2 dopamine receptors in rat striatal slices. Synapse <u>2</u>:450-456, 1988.
- 30. Burnett, D.M., Gal, J., Zahniser, N.R. and Nies, A.S. Propafenone interacts stereoselectively with β_1 and β_1 -adrenergic receptors. J. Cardiovascular Pharmacol. <u>12</u>:615-619, 1988.
- 31. Zahniser, N.R., Parker, D.C., Bier-Laning, C.M., Miller, J.A., Gerber, J.G. and Nies, A.S. Comparison between the effects of aging on antagonist and agonist interactions with β-adrenergic receptors on human mononuclear and polymorphonuclear leukocyte membranes. J. Gerontol. 43:M151-M157, 1988.
- 32. Gerhardt, G.A., Dwoskin, L.P. and Zahniser, N.R. Outflow and overflow of picogram levels of endogenous dopamine and DOPAC from rat striatal slices: Improved methodology for studies of stimulus-evoked release and metabolism. J. Neurosci. Meth. <u>26</u>:217-227, 1989.

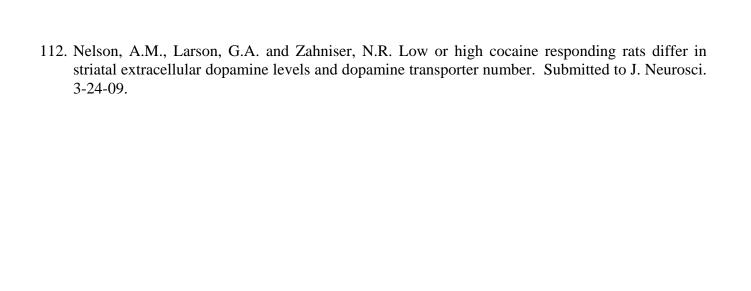
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