

CURRICULUM VITAE

3/25/03

NANCY RUTLEDGE ZAHNISER

Professor

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EDUCATION AND EMPLOYMENT HISTORY:

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

RESEARCH INTERESTS:

- Role of the dopamine transporter in cocaine-induced behavioral sensitization
- Mechanisms regulating dopamine transporter activity and expression
- Contribution of NMDA receptors and norepinephrine transporters to genetic differences in initial sensitivity to ethanol
- Release-modulating dopamine and adenosine receptors in the basal ganglia and limbic systems

FELLOWSHIPS AND HONORS:

- 1974-1976 National Institutes of Health Predoctoral Traineeship
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 Excellence in Teaching Award
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 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 P.I., NIH Postdoctoral Training Grant: "Behavioral Pharmacogenetics of Alcohol and Drug Abuse"
2002-present Research Scientist Award (NIDA)
2002-present NIH National Advisory Council on Drug Abuse
2003 University of Pittsburgh School of Pharmacy Distinguished Lecture Series

NATIONAL GRANT REVIEW PANELS:

- 1983-present *Ad hoc* reviewer for NSF, Human Frontier Science Program, VA, NY Academy of Sciences and March of Dimes 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, member
1996 NIMH Special Emphasis Panel, member
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, reviewer
2002 North Dakota EPSCoR Seed Grant Program, reviewer

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

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

NATIONAL COMMITTEES:

- 1985-1988 ASPET Subcommittee on Women in Pharmacology, member
- 1993-1999 Scientific Advisory Committee, The New England Regional Primate Center, Harvard Medical School, member
- 1996- 1999 ASPET Neuropharmacology Executive Committee, member
- 1997- 1998 WCBR Program Committee, member
- 1998- 1999 NIDA Search Committee for the Director of the Division of Basic Research, member
- 1999- 2000 ASPET Short Course/Continuing Education Committee, member
- 1999-present Scientific Advisory Board, University of Texas Waggoner Center for Alcohol and Addiction Research, member
- 2000-present ASPET Council, member
- 2000-present ASPET Finance Committee and Investment Subcommittee, member
- 2000-present ASPET Council liaison to ASPET Committee on Minorities
- 2001 University of Texas Institute for Neuroscience Review Committee, member
- 2002 Search Committee for a Tenured Scientist in the Cellular Neurophysiology Branch, NIDA Intramural Research Program, member
- 2003 NIDA Intramural Research Program Board of Scientific Councilors and review of Dr. Toni Shippneberg

ORGANIZATION OF NATIONAL MEETINGS:

- 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 Neurotransmitter Transporters”, organizer
- 2002 Dopamine 2002 Meeting session, “Presynaptic Mechanisms: Dopamine Synthesis, Release, and Reuptake”, invited co-organizer

EDITORIAL BOARDS AND JOURNAL REVIEW:

- 1991-present *Pharmacol. Commun.* Editorial Board
1994-present *CNS Drug Reviews* Editorial Board
2001-present *J. Neurosci. Meth.* Editorial Board
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*

ACTIVE GRANT SUPPORT:

Research:

1. NIDA: R37 DA04216-13, MERIT Award: "Cocaine Sensitization and the Dopamine Transporter". PI: Nancy R. Zahniser. 5/1/99 - 4/30/09. Annual direct costs = \$158,549.
2. NIDA: K05 DA15050-01, "Cocaine Sensitization and Dopamine Transporter Regulation". Research Scientist Award for Nancy R. Zahniser. 4/1/02 - 3/31/07. Annual direct costs = \$112,500.
3. NIAAA: P50 AA03527-23, "Genetic Approaches to Neuropharmacology of Ethanol". Research Center Director: Richard A. Deitrich. Project 6: "NMDA Receptors", P.I.: N.R. Zahniser. 12/1/98 - 11/30/02 + 1 year phase-out funds. Annual direct costs = \$72,716.
4. NIDA: R01 DA14204-01, "Dopamine Transporter Regulation by Endocytosis". PI: Alexander D. Sorkin, Co-PI: Nancy R. Zahniser. 4/1/01 - 3/31/05. Annual direct costs = \$200,000.
5. NIAAA: U01 AA13473-01, INIA (Integrative Neuroscience Initiative on Alcoholism): "The Future Is Now: Stem Cells and Alcohol". PI: W. Michael Zawada. Co-PI: Nancy R. Zahniser. 9/28/01-9/27/06. Annual direct costs = \$175,000.

Training:

1. NIDA: F32 DA14476-01, "Dopamine Transporter: Regulation by D₂ Receptor Signaling". Post-doctoral fellowship for Heather M. Haughey. Sponsor: Nancy R. Zahniser. 7/1/01-6/30/03. Annual direct costs = \$34,832.
2. NIAAA: T32 AA07464-26, Postdoctoral Training Grant: "Behavioral Pharmacogenetics of Alcohol and Drug Abuse". PI: Nancy R. Zahniser. 7/1/02-6/30/07. Annual direct costs = \$332,000.
3. NIGMS: T32 GM 07635, "Predoctoral Training Grant: Predoctoral Training Program in Pharmacology", PI: Boris Tabakoff. Training faculty: Nancy R. Zahniser. 7/1/98 - 6/30/03.
4. NINDS: T32 NS07083, "Advanced Training in Basic Neuroscience". PI William J. Betz. Training faculty: Nancy R. Zahniser. 9/30/00-6/30/05.
5. NINDS: T32 NS07472-01, "Neuroscience Training Grant". PI Curt Freed. Training faculty: Nancy R. Zahniser. 7/1/01-6/30/06.

PENDING GRANT SUPPORT:

Research:

1. NIAAA: AA014620-01. "NMDA Receptors and Initial Ethanol Sensitivity", P.I.: N.R. Zahniser. 12/1/03-11/30/07. Annual direct costs requested = \$175,000.

Training:

1. NIDA: F32 DA016485-01, "Amphetamine Sensitization: Role of Dopamine Transporter ". Postdoctoral fellowship for Joshua M. Gulley. Sponsor: Nancy R. Zahniser. 7/1/03-6/30/04. Direct costs requested = \$44,212. Score: 132
2. NIDA: F32 DA016860-01, "Dopamine Transporter Regulation in Rat Brain". Postdoctoral fellowship for Brian R. Hoover. Sponsor: Nancy R. Zahniser. 7/1/03-6/30/05. Direct costs requested = \$90,000. Score: 131.

MENTORING OF THESIS STUDENTS AND POSTDOCTORAL FELLOWS AT UCHSC:

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-present	Suzanne Doolen, postdoctoral research
1999	Hollie Wayment, postdoctoral research
2000-present	Heather M. Haughey, postdoctoral research
2000-present	Joshua M. Gulley, postdoctoral research
2002-present	Brian R. Hoover, postdoctoral research

MENTORING OF FACULTY AT UCHSC:

1986-1990	Co-Sponsor on CIDA Award of Dr. Sally J. Boyson, Department of Neurology, UCHSC
2002-present	Consultant on K08 Award of Dr. Jody Tanabe, Department of Radiology, UCHSC (score: 157).
2002	Helped in revision of Howard Hughes application of Dr. Irina Grichtchenko, Department of Physiology & Biophysics, UCHSC.

COURSE DIRECTION AT UCHSC:

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-present	Graduate Student Pharmacology course, co-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 Pharmacy 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-present	Lecturer in Medical Student Pharmacology course, UCHSC
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- 2000	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
1998-present	Lecturer in Graduate Pharmacology Course, UCHSC
1999	Lecturer in Current Topics in Neuroscience Course, Regis University, Denver, CO
1999-present	Lecturer in Graduate Neuroscience Core Course, UCHSC
2000	Lecturer in Graduate Frontiers in Pharmacology Course, UCHSC
2002	Lecturer in Pharmacology for Neurology Residents, UCHSC
2002	Discussion Leader in Graduate Student Ethics Course, UCHSC

UCHSC COMMITTEES:

1982-present UCHSC Graduate Faculty, member
1984 Gerontology Subcommittee of the Long Range Planning Committee, member
1983-1985 Curriculum Review Committee, member
1985-1986 Search Committee for Department of Anesthesiology Chairperson, member
1985-1986 Salary Equity Review Committee, member
1986-1990 BRS Committee, member
1986-1990 Graduate Committee, member
1989-present *Ad hoc* subcommittees of the Faculty Promotions Committee, member
1990-1991 Search Committee for Neuroscience Program Faculty, member
1991 Graduate Student Fellowship Competition Committee, member
1992-1993 Dean's Advisory Committee, member
1992-1993 Dean's Distinguished Seminar Series, sponsor
1992-1993 Search Committee for Department of Physiology Chairperson, member
1994-1997 Medical Student Promotions Committee, member
1994-present MSTP Credentials Committee, member
1995-1997 Elizabeth Gee Memorial Lecture Award Committee, member
1995-1998 Neuroscience Program Graduate Training Committee, member
1999-2000 Neuroscience Program Advisory Committee, member
2000 Neuroscience Program Training Grant Committee, chair
1999-present Medical Student Promotions Committee, member
1999-2000 Search Committee for Department of Psychiatry Chair, member
2000-present Faculty Senate, representative from the Department of Pharmacology
2000-2001 Neuroscience Program Seminar Committee, member
2001-present Neuroscience Program Membership Committee, chair
2001-present Neuroscience Program Steering Committee, member
2003-present Search Committee for Department of Pathology Chair, member
2003-present Women's Health Research Initiative, Advisory Committee member

UCHSC DEPARTMENT OF PHARMACOLOGY COMMITTEES:

1984-1991 Graduate Training Committee, member
1987-1990 Graduate Training Committee, chair
1990-2000 UPI/ICR Committee, member
1990-2001 Curriculum Committee, member
1994-1995 Graduate Training Committee, member
1994-1995 Departmental Programs Committee, member
1996-present Promotions Committee, member
1997 Committee to Organize New Graduate Pharmacology Course, co-chair
2000-present School of Medicine Faculty Senate, departmental senator
2000-2002 Recent Publications Committee, member
2001-present Fitzsimons Space Committee, member
2002-present Departmental Self-Study Review Committee, member

SUPERVISION OF STUDENT RESEARCH ROTATIONS AT UCHSC:

1982 Danny Stene, 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, Neuroscience 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, UCD undergraduate student
 1993 Brett Masayeva, 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
 2003 Beth Stubblefield, Pharmacology graduate student
 2003 Danielle Salaz, Pharmacy workstudy student
 2003 Sophia Briegleb, Neuroscience graduate student

UCHSC COMMITTEES:

1982-present UCHSC Graduate Faculty, member
 1984 Gerontology Subcommittee of the Long Range Planning Committee, member
 1983-1985 Curriculum Review Committee, member
 1985-1986 Search Committee for Department of Anesthesiology Chairperson, member
 1985-1986 Salary Equity Review Committee, member
 1986-1990 BRS Committee, member
 1986-1990 Graduate Committee, member
 1989-present *Ad hoc* subcommittees of the Faculty Promotions Committee, member
 1990-1991 Search Committee for Neuroscience Program Faculty, member
 1991 Graduate Student Fellowship Competition Committee, member
 1992-1993 Dean's Advisory Committee, member
 1992-1993 Dean's Distinguished Seminar Series, sponsor
 1992-1993 Search Committee for Department of Physiology Chairperson, member
 1994-1997 Medical Student Promotions Committee, member
 1994-present MSTP Credentials Committee, member
 1995-1997 Elizabeth Gee Memorial Lecture Award Committee, member

1995-1999 Neuroscience Program Graduate Training Committee, member
 1999-2001 Neuroscience Program Advisory Committee, member
 2000 Neuroscience Program Training Grant Committee, chair
 1999-present Medical Student Promotions Committee, member
 1999-2000 Search Committee for Department of Psychiatry Chair, member
 2000-present Faculty Senate, representative from the Department of Pharmacology
 2000-2002 Neuroscience Program Seminar Committee, member
 2001-present Neuroscience Program Membership Committee, chair
 2001-present Neuroscience Program Steering Committee, member
 2003-present Search Committee for Department of Pathology Chair, member

UCHSC 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
 1998-1999 Burns Blaxall, Dept. Pharmacology
 2000-2002 David Grosshans, Dept. Pharmacology (MSTP)
 2002-present Erik Maclaren, Dept. Pharmacology
 2002-present Enrique Alavarez, Neuroscience Program (MSTP)

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

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 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, Gainesville, 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 7th 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
 9/94 Dept. Medical Psychology, Oregon Health Sciences Univ., Portland, OR
 10-11/94 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 6th 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 8th 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
 7/01 FASEB Summer Research Conference on Transporters, Tucson, AZ

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 University of Pittsburgh School of Pharmacy Distinguished Lecture Series, Pittsburgh, PA

TITLE OF 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.* 200:545-559, 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.
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