

Curriculum Vitae

Steven I. Dworkin, Ph.D.

ADDRESS:

RESIDENCE:

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BUSINESS:

Department of Psychology
University of North Carolina-Wilmington
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PERSONAL INFORMATION:

BIRTHPLACE: Baltimore, Maryland

BIRTH DATE: March 24, 1954

EDUCATION AND TRAINING:

1976 University of Maryland
College Park, Maryland
B.S.

1979 University of Florida
Gainesville, Florida
M.S.

1981 University of Florida
Gainesville, Florida
Ph.D.

Training:

3/75-6/75 Psychology Aid
Department of Health, Education and Welfare
Laboratory of Clinical Psychopharmacology
Saint Elizabeth's Hospital
Washington, D. C.

3/75-7/76 Undergraduate Research
Department of Psychology
University of Maryland
College Park, Maryland
Advisor: James E. Barrett, Ph.D.

- 8/76-7/77 Graduate Research
Center for the Neurobiological Sciences
Department of Neuroscience
University of Florida
Gainesville, Florida
Advisor: C.J. Vierck, Ph.D.
- 8/77-8/81 Graduate Research
Behavior Pharmacology Laboratory
Department of Psychology
University of Florida
Gainesville, Florida
Advisor: Marc N. Branch, Ph.D.
- 8/81-10/83 Postdoctoral Fellow
Psychiatry Research Unit
Department of Psychiatry
Louisiana State University Medical Center
Shreveport, Louisiana
Mentor: James E. Smith, Ph.D.

EMPLOYMENT:

- 10/83-11/84 Instructor
Department of Psychiatry
LSU Medical Center
Shreveport, Louisiana
- 12/84-6/88 Assistant Professor
Departments of Psychiatry and Pharmacology & Therapeutics
LSU School of Medicine
Shreveport, Louisiana
- 12/84-6/88 Assistant Professor
Department of Psychology
Louisiana State University
Shreveport, Louisiana
- 7/88-6/89 Associate Professor
Departments of Psychiatry and Pharmacology & Therapeutics
Louisiana State University School of Medicine
Shreveport, Louisiana
- 7/89-6/97 Associate Professor
Department of Physiology and Pharmacology
Wake Forest University
Bowman Gray School of Medicine
Winston-Salem, North Carolina
- 8/97-present Professor
Department of Psychology
The University of North Carolina at Wilmington
Wilmington, North Carolina

TEACHING EXPERIENCE:

- 9/78-8/81 University of Florida
General Psychology
Introduction to the Experimental Analysis of Behavior
Laboratory Procedures in Experimental Analysis of Behavior
- 8/81-89 Louisiana State University Medical Center - Shreveport
Behavioral Pharmacology
Freshman Psychiatry (Introduction to Neuroscience)
Basic Neuroscience for Psychiatry Residents
Sophomore CNS Pharmacology
Junior Pharmacopsychiatry Drug Abuse Conference
- 9/81-6/88 Louisiana State University in Shreveport
General Psychology
Senior Pharmacopsychiatry Drug Abuse Conference
- 12/89-7/97 Wake Forest School of Medicine
Neurobehavioral Pharmacology
- 8/97-present University of North Carolina Wilmington, Department of Psychology
Introduction to Psychology
Physiological Psychology
Neurobehavioral Pharmacology
Psychology of Learning
Motivation and Emotion

GRANTS:

Current: Planned Submission

AREA Grant Application "Evaluations of the reinforcing effects of caffeine and nicotine" NIDA. Projected 3 year budget direct costs \$600,000 (4 years).

Contract Application in response to an invitation from NIH for RFA for "Assessing pharmaceuticals for treating cocaine and nicotine abuse. NIH/NIDA, projected budget \$2,000,000 (5 years)

Previous Funded Applications

- PRINCIPAL INVESTIGATOR: R. J. Reynolds Tobacco Co.
"Quantitative Analysis of the Reinforcing Efficacy of Stimulants"
Budget: \$317,000
- 12/91-12/02USPHS - National Institute on Drug Abuse
Center for the Neurobiological Investigations of Drug Abuse"
(PI - James E. Smith, Ph.D.)
Core Director (Core E - Behavioral Pharmacology)
Principal Investigator (Project II - "Detailed Analysis of the Effects of
Contingent and Non-Contingent Cocaine Administration")
Budget: \$556,534
10/1/91-8/31/97

Previous Funded Applications (continued)

USPHS-National Institute on Drug Abuse
Assessment of Potential Treatment for Cocaine Abuse

Contract No- 271-90-7402
Budget 1,300,000
8/90-7/93

USPHS-National Institute on Drug Abuse
Evaluating the Neurotoxic Effects of Self-administered Cocaine
Contract No-271-87-8118
Budget- 1,300,000
8/87-7/91

USPHS-National Institute on Drug Abuse
Neurobiology of the Reinforcing and Discriminative Stimulus Effects of
Cocaine
DA-03631
Budget – 385,000
10/83-9/86

CO-INVESTIGATOR: USPHS - National Institute of Drug Abuse
"Drug Abuse - Neurobiological Mechanisms of Morphine"
(2 RO1 DA 01999)
Principal Investigator: James E. Smith, Ph.D.
Budget: \$1,506,139
6/30/76-7/31/97

USPHS - National Institute on Drug Abuse
"Neurobiological Parameters of Cocaine Reinforcement"
(1 RO1 DA 03628)
Principal Investigator: James E. Smith, Ph.D.
Budget: \$1,336,349
1/1/85-4/30/97

R. J. Reynolds Tobacco Co.
"Effects of Compounds on Human Performance"
Principal Investigator: John Robinson, Ph.D.
Budget: \$ 470,000
12/31/95-12/31/96

USPHS – NATIONAL INSTITUTE ON DRUG ABUSE
Non-opioid DYNA: Molecular/Cellular/Physiological
Studies,
NIDA 1PO1 DA11470, Nancy Lee, Ph.D. California Pacific Medical
Center, PI

PROFESSIONAL MEMBERSHIPS:

1979	Association for Behavior Analysis
1981	American Association for the Advancement of Science
1981	American Psychological Association (Fellow:1997)
1982	Society for Neuroscience
1983	Behavioral Pharmacology Society

1984	American Society for Pharmacology and Experimental Therapeutics
1985	International Study Group Investigation Drugs as
1989	American Psychological Society
1988	European Behavioral Pharmacology Society
1997	College on the Problems of Drug Dependency
2000	Council for Undergraduate Research
2001	Southeastern Association for Behavioral Analysis

OTHER PROFESSIONAL APPOINTMENTS AND ACTIVITIES:

UNIVERSITY OF NORTH CAROLINA WILMINGTON

1998-2005	Faculty Senate Steering Committee (1999-2001, 2002-2004) Vice President (2000-2001)
1998-2001	Chairman Faculty Research Committee
1999-2005	Member Institutional Animal Care and Use Committee Chairman 2000-2005

REFEREE AND REVIEW EXPERIENCE:

GRANT REVIEWER:

1987,1988	National Institute on Drug Abuse - Center Grant Special Review Committee
1989	Ad-hoc Member, National Institute on Drug Abuse, Biomedical Pharmacology Research Review Committee
1989	Member, National Institute on Drug Abuse, Special Review Committee II Pharmacology
1989-1993	Member, National Institute on Drug Abuse, Pharmacology Review Committee
1990	Member, National Institute of Mental Health, Special Review Committee, MIRDP
1990-2003	Member, Oklahoma Center for the Advancement of Science and Technology
1993-1997	Member, National Institute of Health Reviewers Reserve Committee, NRR
2000-2001	Ad-hock Member NIDA Training Grant Review Committee
2000-2004	Member NIH/CSR BBBP1-01 Study Section
2000-2005	Member, NIDA Loan Repayment Scholarship Committee

GUEST REFEREE FOR: Behavioral Brain Research
 Behavioural Pharmacology
 Life Sciences
 Journal of the Experimental Analysis of Behavior
 Journal of Pharmacology and Experimental Therapeutics
 Pharmacology Biochemistry and Behavior
 Psychopharmacology
 Drug Development Research
 Alcoholism: Clinical and Experimental Research
 Neuropharmacology

HONORS AND AWARDS:

1984 Treasurer of Shreveport Society for Neuroscience
 1985-89 President of Shreveport Society for Neuroscience
 1985 Travel Award from the Committee on Problems of Drug Dependence
 1986-90 Program Specialty Area Coordinator for Association for Behavioral
 Analysis - Behavioral Pharmacology and Toxicology
 1986-99 Program Specialty Area Coordinator for Association for Behavioral
 Analysis - Behavioral Pharmacology and Toxicology
 1987-1988 Member National Institute on Drug Abuse-Center Grant Review
 Committee.
 1987 Travel Award from ASPET to attend IUPHAR
 Invited Participant NIDA Technical Review, "Mechanisms of Cocaine
 Abuse and Toxicity."
 1988 Chairman Invited Symposium, "Progress in Understanding the
 Behavioral and Neurobiological Effects of Cocaine," 96th
 Annual Convention of the American Psychological Association,
 Atlanta, Georgia.
 1989 Chairman Invited Symposium, "Contingent Versus Noncontingent Drug
 Delivery: Behavioral and Neurobiological Consequences," 97th
 Annual Convention of the American Psychological Association,
 New Orleans, Louisiana.
 1989 Invited Participant NIDA Technical Review, "Neurobiological
 Approaches to Brain-Behavior Interactions."
 1989-1993 Member National Institute on Drug Abuse Biomedical Pharmacology
 Research Review Committee.
 1990 Member Special Review Committee for National Institute on Drug
 Abuse Contracts.
 1990 Member, National Institute of Mental Health, Special Review
 Committee, MIRDP
 1991 Invited Participant NIDA Technical Review, "Neurobiological models
 for evaluating mechanisms underlying cocaine addiction and
 potential pharmacotherapies for treating cocaine abuse.
 1991-1997 Member, ASPET Subcommittee on Substance Abuse.
 1992 Co-Chair, European Behavioral Pharmacology Society Current Issues in
 Cocaine Research

1993	Chairman Invited Symposium, "Behavioral, Pharmacologic and Neurobiologic Variables Important to the Analysis of Drug Self Administration: Implications for the Discovery of Potential Pharmacotherapies, 1993 CPDD Scientific Meeting, Toronto, Canada.
1995	Invited Address, Factors Related to Drug Abuse Vulnerability, Firenze, Italy.
1997	Fellow American Psychological Association (Divisions 25,28)
1998	Fellow American Psychological Association (Division 6)
1998-2004	ASPET Public Information Subcommittee, Chair 2001-2003
1999	Organizer FASEB Summer Research Conference: Vulnerability to Alcoholism and Drug Addiction
2000-2003	Psychology Council, Council for Undergraduate Research
2002-2008	Member AAALAC Board of Trustees
2004-2008	Member ASPET Public Information Main Committee
2005	President SEABA
2005	IT Innovation Award
2005-2008	Member of APA CARE

BIBLIOGRAPHY:

BOOKS AND CHAPTERS:

- 1) Dworkin SI, Smith JE. Neurobiological aspects of drug-seeking behaviors. In: Dews PB, Thompson T, Barrett JE, eds. Neurobehavioral pharmacology advances in behavioral pharmacology, Vol 6. New Jersey: Lawrence Erlbaum Associates, 1987:1-43.
- 2) Dworkin SI, Smith JE. Assessment of neurochemical correlates of operant behavior. In: Boulton AA, Baker GB, Greenshaw AJ, eds. Neuromethods: psychopharmacology I, Vol. 13. New Jersey: Humana Press, 1989:741-785.
- 3) Dworkin SI, Porrino LJ, Smith JE. Pharmacology of basal forebrain involvement in reinforcement. In: The Basal Forebrain: Anatomy and Function. Napier TC, Kalivas P and Hanin I, eds., Plenum Press: New York, 1991: 327-338.
- 4) Dworkin SI, Smith JE. Mechanisms of reinforcement and their relation to future developments in pharmacology. In: Alcohol & Alcoholism; Pergamon Press, 1991:39-47.
- 5) Porrino LJ, Dworkin SI, Smith JE. Basal forebrain involvement in self-administration. In: The Basal Forebrain: Anatomy and Function. Napier TC, Kalivas P and Hanin I, eds., Plenum Press: New York, 1991: 339-351.

BOOKS AND CHAPTERS: (continued)

- 6) Cunningham K, Dworkin SI, Smith JE. Neurobiology of cocaine: reinforcing and stimulus effects. In *Cocaine: Pharmacology, Physiology and Clinical Strategies*. Lakowski JM, Galloway MP, and White FJ eds, CRC Press, Inc.: Boca Raton, FL, 1992; 91-113.
- 7) Dworkin SI, Smith JE. Cortical regulation of self-administration. In: Kalivas PW, Samson HH, eds. *The Neurobiology of Drug and Alcohol Addiction, Volume 654*. New York: The New York of Academy of Sciences, 1992:274-281.
- 8) Dworkin SI, Porrino LJ, Smith JE. Neurobiological substrates of opioid abuse. In *The Neurobiology of Opiates*, CRC Press, Inc.; Boca Raton, FL, 1992; 333-360.
- 9) Dworkin SI, Pitts R, Galizio M. Scheduled-controlled behavior: Negative reinforcement. In: *Methods in Behavioral Pharmacology*, Frans van Haaren (Ed), 1993; 101-116.
- 10) Dworkin SI, Smith, JE. Behavioral Mechanisms: Opiates/opioids and reinforcement. In *Biological Basis of Substance Abuse*, S.G. Korenman and J.D. Barchas, eds, Oxford University Press, New York, 1993; 327-338.
- 11) Smith JE, Dworkin SI. Limbic system. In: *Encyclopedia of Drug Abuse*. (J. Jaffe, Ed.), Macmillan Publishing Co., New York, in press, 1997.
- 12) Smith JE, Dworkin SI. Neuroanatomy, brain structures and drugs. In: *Encyclopedia of Drug Abuse*. (J. Jaffe, Ed.), Macmillan Publishing Co., New York, in press, 1997.
- 13) Hemby SE, Johnson BA, Dworkin SI. Neurobiology of drug reinforcement. In: *Drug addiction and its treatment: Nexus of neuroscience and behavior*, (Bankole A. Johnson and John D. Roach, eds), Lippincott-Raven, New York, 1997.
- 14) Dworkin, S.I. Brain Structures and Drugs. In: *Encyclopedia of Drug Abuse*. Gale Group, 2001
- 15) Dworkin, SI and Stairs, DJ. Self-administration of drugs of abuse. In: *Methods in drug abuse analysis: Cellular and Circuit Level Analysis*, (Barry D. Waterhouse, ed.), CRC Press, New York, 2002

MONOGRAPHS:

- 1) Dworkin SI, Lane JD, Smith JE. An investigation of brain reinforcement systems involved in the concurrent self-administration of food, water, and morphine. In: Harris LS, ed. *NIDA Research Monograph #49, Problems of Drug Dependence 1983;1984:196-171*.
- 2) Dworkin SI, Miyauchi T, Smith JE. Neurochemical and pharmacological investigations of punished behavior. In: Harris LS, ed. *NIDA Research Monograph #67, Problems of Drug Dependence 1985;1986:215-227*.
- 3) Dworkin SI, Goeders NE, Smith JE. The reinforcing, rate effects and stimulus properties of intracranial dopamine administration. In: Harris LS, ed. *NIDA Research Monograph #67, Problems of Drug Dependence 1985;1986:242-248*.
- 4) Goeders NE, Guerin GF, Dworkin SI, Smith JE. Reinforcing stimulus properties of endocoids. *Proceedings of the International Symposium on Endocoids*, Alan R. Liss, Inc., 1985, pp. 63-69.

MONOGRAPHS: (CONTINUED)

- 5) Smith JE, Dworkin SI. Neurobiological substrates of drug self-administration. In: Brown RM, Clouet D, eds. NIDA Research Monograph #71, Opiate Receptor Subtypes and Brain Function 1986;127-145.
- 6) Dworkin SI, Smith JE. Behavioral contingencies involved in drug-induced neurotransmitter turnover changes. In: Szara S, ed. NIDA Research Monograph #74, Neurobiology of Behavioral Control in Drug Abuse 1986;90-106.
- 7) Goeders NE, Dworkin SI. Effects of chlordiazepoxide on intravenous cocaine self-administration in rats. In: Harris LS, ed. NIDA Research Monograph #76, Problems of Drug Dependence 1986;1987:240-247.
- 8) Dworkin SI, Goeders NE, Grabowski J, Smith JE. The effects of 12 hour limited access to cocaine: Reduction in drug intake and mortality. In: Harris LS, ed. NIDA Research Monograph #76, Problems of Drug Dependence 1986;1987:221-225.
- 9) Dworkin SI, Goeders NE, Guerin GF, Co C, Smith JE. Effects of 5,7-dihydroxytryptamine lesions of the nucleus accumbens in rats responding on a concurrent schedule of food, water and intravenous morphine self-administration. In: Harris LS, ed. NIDA Research Monograph #81, Problems of Drug Dependence 1987;1988:149-155.
- 10) McAllister KH, Dworkin SI, Goeders NE. Chronic cocaine modifies brain benzodiazepine density. In: Harris LS, ed. NIDA Research Monograph #81, Problems of Drug Dependence 1987;1988:101-108.
- 11) Dworkin SI, Smith JE. Neurobehavioral Pharmacology of Cocaine. In: Asghar K, Brown R, Clouet D, eds. NIDA Research Monograph #88, Mechanisms of Cocaine Abuse and Toxicity 1987;1988:185-198.
- 12) Goeders N, McNulty MA, Guidroz AM, Dworkin SI. Potential neurotoxic effects of self-administered cocaine on dopamine receptors. NIDA Research Monograph #95, Problems of Drug Dependence 1989;504.
- 13) Dworkin SI, Smith JE. Molecular Mechanisms of Drug Reinforcement - Current Status. In: Harris LS, ed. NIDA Research Monograph #90, Committee on the Problems of Drug Dependence 1988;1989:266-274.
- 14) West MO, Peoples LL, Wolske M, Dworkin SI. Psychomotor stimulant effects on single neurons in awake, behaving rats. NIDA Research Monograph # 124, Neurobiological approaches to Brain-Behavior Interaction, 1991;1992:57-72.
- 15) Dworkin SI, Porrino LJ, Smith JE. Importance of behavioral controls in the analysis of ongoing events. NIDA Research Monograph #124, Neurobiological approaches to Brain-Behavior Interaction, 1991;1992:173-188.
- 16) Dworkin SI, Pitts RC. Use of rodent self-administration models to develop pharmacotherapies for cocaine abuse. NIDA Research Monograph #145, Neurobiological Models for Evaluating Mechanisms Underlying Cocaine Addiction, 1994:88-112.

JOURNAL ARTICLES:

- 1) Barrett JE, Dworkin SI, Zuccarelli RR. Effects of d-amphetamine, chlordiazepoxide and promazine on responding in squirrel monkeys responding under fixed-interval schedules of food presentation and stimulus shock termination. *Pharmacol Biochem Behav* 1977; 7:529-535.
- 2) Branch MN, Nicholson G, Dworkin SI. Punishment-specific effects of pentobarbital: Dependency on the type of punisher. *J Exper Anal Behav* 1977; 28:285-293.
- 3) Branch MN, Dworkin SI. Effects of ratio contingencies on responding maintained by schedules of electric shock presentation (response-produced shock). *J Exper Anal Behav* 1981; 36:191-205.
- 4) Dworkin SI, Branch MN. Behavioral effects of morphine and naloxone following chronic morphine administration. *Psychophar* 1982; 77:322-326.
- 5) Dworkin SI, Guerin GF, Goeders NE, Cherek DR, Lane JD, Smith JE. Reinforcer interactions under concurrent schedules of food, water, and intravenous morphine. *Psychophar* 1984; 82:282-286.
- 6) Grabowski J, Dworkin SI. Cocaine: An overview of current issues. *Inter J Addi* 1985; 20:1065-1088.
- 7) Goeders NE, Dworkin SI, Smith JE. Behavioral and neuropharmacological assessment of cocaine self-administration into the medial prefrontal cortex. *Pharmacol Biochem Behav* 1986; 24:1429-1440.
- 8) Smith JE, Schultz K, Co C, Goeders NE, Dworkin SI. Effects of 5,7-dihydroxytryptamine lesions of the nucleus accumbens on intravenous morphine self-administration. *Pharmacol Biochem Behav* 1987; 26:607-612.
- 9) Dworkin SI, Guerin GF, Goeders NE, Smith JE. Kainic acid lesions of the nucleus accumbens selectively attenuate morphine self-administration. *Pharmacol Biochem Behav* 1988; 29:175-181.
- 10) Miyauchi T, Dworkin SI, Co C, Smith JE. Specific effects of punishment on biogenic monoamine turnover in discrete rat brain regions. *Brain Res* 1988; 454:40-50.
- 11) Dworkin SI, Guerin GF, Co C, Goeders NE, Smith JE. Lack of an effect of 6-hydroxydopamine lesions of the nucleus accumbens on morphine self-administration. *Pharmacol Biochem Behav* 1988; 30:1051-1057.
- 12) Dworkin SI, Bimle C, Miyauchi T. Differential effects of pentobarbital and cocaine on punished and unpunished responding. *J Exper Anal Behav* 1989; 51:173-184.
- 13) Miyauchi T, Dworkin SI, Co C, Smith JE. Specific effects of punishment on amino acid turnover in discrete brain regions. *Pharmacol Biochem Behav* 1989; 31:523-531.
- 14) Izenwasser S, Blake MJ, Goeders NE, Dworkin SI. Punishment modifies the effects of chlordiazepoxide and benzodiazepine receptors. *Pharmacol Biochem Behav* 1989; 32:743-748.
- 15) Dworkin SI, Bimle C. 6-Hydroxydopamine lesions of the nucleus accumbens attenuate the discrimination stimulus effects of d-amphetamine. *Drug Develop Res* 1989; 16:435-441.

JOURNAL ARTICLES: (CONTINUED)

- 16) Lewis MJ, Dworkin SI. The cocaine epidemic. *Contemp Psych* 1989; 34:400-401.
- 17) Katz JL, Dworkin SI, Dykstra LA, Carter RB, Witkin JM. Some behavioral effects of repeated d-amphetamine administrations. *Drug Develop Res* 1990; 20:31-42.
- 18) Smith JE, Dworkin SI. Behavioral contingencies determine changes in drug-induced neurotransmitter turnover. *Drug Develop Res* 1990; 20:337-348.
- 19) Dworkin SI, Mirkis S, Smith JE. Reinforcer interactions under concurrent schedules of food, water and intravenous cocaine. *Behav Pharmacol* 1990; 1:327-338.
- 20) Pitts, RC, Lewis MJ, Dworkin SI. Effects of ethanol on punished and nonpunished responding under conditions of equated reinforcement rates and similar response rates. *Pharmacol Let* 1992; 52:1-6.
- 21) Smith TL, Callahan M, Williams D, Dworkin SI. Tachyphylaxis in cardiovascular responses to cocaine in conscious rats. *J Cardiovasc Pharmacol* 1993; 21:272-278.
- 22) Dworkin SI, Vrana S, Broadbent J, Robinson JH. Comparing the reinforcing effects of nicotine, caffeine, methylphenidate and cocaine. *Med Chem Res* 1993; 2:593-602.
- 23) Vrana SL, Dworkin SI, Vrana KE. Radioenzymatic assay for tryptophan hydroxylase: [³H] H₂O release assessed by charcoal adsorption. *J Neurosci Meth* 1993; 48:123-129.
- 24) Vrana SL, Vrana KE, Koves TR, Smith JE, Dworkin SI. Chronic cocaine administration increases CNS tyrosine hydroxylase enzyme activity and mRNA levels and tryptophan hydroxylase enzyme activity. *J Neurochem* 1993; 61:2262-2268.
- 25) Martin TJ, Dworkin SI, Smith JE. Effects of intracerebroventricular administration of β -funaltrexamine on [³H] DAMGO binding to rat brain sections. *J Pharmacol Exp Therap* 1993; 267:506-514.
- 26) Dworkin SI, Gleeson S, Meloni D, Koves T, Martin T. Effects of ibogaine on responding maintained by food, cocaine, and heroin reinforcements in rats. *Psychopharmacol* 1995; 117:257-261.
- 27) Dworkin SI, Mirkis S, Smith JE. Response-dependent versus response-independent presentation of cocaine: differences in the lethal effects of the drug. *Psychopharmacol* 1995; 117:262-266.
- 28) Martin TJ, Dworkin SI, Smith JE. Alkylation of μ -opioid receptors by β -funaltrexamine *in vivo*: Correlation of the effects on *in situ* binding and heroin self-administration in rats. *J Pharmacol Exp Therap* 1995; 272:1135-1140.
- 29) Hemby SE, Martin TJ, Co C, Dworkin SI, Smith JE. The effects of intravenous heroin self-administration on extracellular nucleus accumbens dopamine concentrations as determined by *in vivo* microdialysis. *J Pharmacol Exp Therap* 1995; 273:591-598.
- 30) Hemby SE, Co C, Reboussin D, Davies HML, Dworkin SI, Smith JE. Comparison of a novel tropane analog of cocaine, 2 β -propanoyl-3 β -(4-tolyl) tropane with cocaine HCl in rats: nucleus accumbens extracellular dopamine concentration and motor activity. *J Pharmacol Exp Therap* 1995; 273:656-666.

JOURNAL ARTICLES: (CONTINUED)

- 31) Broadbent J, Gaspard TJ, Dworkin SI. Assessment of the discriminative stimulus effects of cocaine in the rat: Lack of Interaction with opioids. *Pharmacol Biochem Behav* 1995; 51:379-385.
- 32) Dworkin SI, Co C, Smith JE. Rat brain neurotransmitter turnover rates altered during withdrawal from chronic cocaine administration. *Brain Res* 1995; 682:116-126.
- 33) Kluttz BW, Vrana KE, Dworkin SI, Childers SR. Effects of morphine on forskolin-stimulated pro-enkephalin mRNA levels in rat striatum: a model for acute and chronic opioid actions in brain. *Mol Brain Res* 1995; 32:313-320.
- 34) Sim LJ, Selley DE, Dworkin SI, Childers SR. Effects of chronic morphine administration on *mu* opioid receptor-stimulated [³⁵S] GTPS autoradiography in rat brain. *J Neurosci* 1996; 16:2684-2692.
- 35) Hemby SE, Smith JE, Dworkin SI. Effects of eticlopride and naltrexone on cocaine, heroin and speedball self-administration. *J Pharmacol Exp Therap* 1996; 277:1247-1258.
- 36) Martin TJ, Walker LE, Sizemore GM, Smith JE, Dworkin SI. Heroin self-administration following multiple-dose training in rats: influences of recent dose exposure on self-administration patterns and effects of naltrexone. *Drug & Alcohol Depend* 1996; 41:93-100.
- 37) Hemby SE, Lucki I, Singh A, Thornley C, Davies HML, Smith JE, Dworkin SI. Comparison tropane compounds 2-propanoyl-3-(4-isopropyl phenyl) tropane and 2-propanoyl-3-(4-tolyl) tropane with fluoxetine and GBR 12909 in the forced swim test. *JPET*. In press, 1997.
- 38) Martin, T. J., Miller, M., Jr., Dworkin, S. I., Smith, J. E. & Porrino, L. J. (1997) Alteration of local cerebral glucose utilization following intravenous administration of heroin in Fischer 344 rats, *Brain Res*, 755, 313-8.
- 39) Dworkin, S. I. & Branch, M. N. (1997) Some questions about unification of conditioning processes, stimulus- response psychology, and neural network models [comment], *J Exp Anal Behav*, 67, 214-6.
- 40) Sizemore, G. M., Gaspard, T. M., Kim, S. A. and Dworkin, S.I. (1997) Dose-effect functions for cocaine self-administration: effects of schedule and dosing procedure, *Pharmacol Biochem Behav*, 57, 523-31.
- 41) Hemby, S. E., Co, C., Koves, T. R., Smith, J. E. & Dworkin, S. I. (1997) Differences in extracellular dopamine concentrations in the nucleus accumbens during response-dependent and response-independent cocaine administration in the rat, *Psychopharmacology (Berl)*, 133, 7-16.
- 42) Hemby, S. E., Lucki, I., Gatto, G., Singh, A., Thornley, C., Matasi, J., Kong, N., Smith, J. E. Davies, H. M., Dworkin, S. I. (1997) Potential antidepressant effects of novel tropane compounds, selective for serotonin or dopamine transporters, *J Pharmacol Exp Ther*, 282, 727-33.
- 43) Dworkin, S. I., Lambert, P., Sizemore, G. M., Carroll, F. I. & Kuhar, M. J. (1998) RTI-113 administration reduces cocaine self-administration at high occupancy of dopamine transporter, *Synapse*, 30, 49-55.

JOURNAL ARTICLES: (CONTINUED)

- 44) Martin, T. J., Smith, J. E. & Dworkin, S. I. (1998) Training dose and session time as contextual determinants of heroin self-administration in rats, *Pharmacol Biochem Behav*, 60, 415-21.
- 45) Graziella De Montis, M., Co, C., Dworkin, S. I., & Smith, J. E. (1998). Modifications of dopamine D1 receptor complex in rats self-administering cocaine. *Eur J Pharmacol*, 362(1), 9-15.
- 46) Hemby, S. E., Co, C., Dworkin, S. I., & Smith, J. E. (1999). Synergistic Elevations in Nucleus Accumbens Extracellular Dopamine Concentrations during Self-Administration of Cocaine/Heroin Combinations (Speedball) in Rats. *J Pharmacol Exp Ther*, 288(1), 274-280.
- 47) Liguori, A., D'Agostino, R. B., Jr., Dworkin, S. I., Edwards, D., Robinson, J. H. (1999). Alcohol effects on mood, equilibrium, and simulated driving. *Alcohol Clin Exp Res*. 23(5), 815-821.
- 48) Sizemore, G. M., Cannon, D. G., Smith, J. E., Dworkin, S. I. (2003). The effects of acutely administered cocaine on responding maintained by a progressive-ratio schedule of food presentation. *Behav Pharm*, 14(1), 33-40.

ABSTRACTS:

- 1) Branch MN, Dworkin SI. Effects of ratio contingencies on responding maintained by schedules of electric shock presentation (response-produced shock). *Bull Psychonom Soc* 1979.
- 2) Dworkin SI, Guerin GF, Lane JD, Smith JE. Effects of kainic acid lesions of the nucleus accumbens on responding maintained by a concurrent food water and morphine schedule. *Soc Neurosci Abst* 1982;8:591.
- 3) Dworkin SI, Guerin GF, Smith JE. Stress related changes in cortical benzodiazepine and hippocampal QNB binding. *Soc Neurosci Abst* 1983;9:1124.
- 4) Steinberg JL, Co C, Sebastian CS, Dworkin SI. Effects of chronic ethanol intake on cortical and hippocampal benzodiazepine receptor binding in female rats. *Soc Neurosci Abst* 1983;9:1236.
- 5) Dworkin SI, Goeders NE. Neurobiological factors involved in the behavioral effects of drugs. *Pharmacol Biochem Behav* 1984;20:980.
- 6) Goeders NE, Dworkin SI, Smith JE. Dose-response relationships for the intracranial self-administration of cocaine. *Fed Proc* 1984;43:574.
- 7) Sebastian CS, Co C, Cole RL, Dworkin SI. Effects of prenatal ethanol on [³H]-flunitrazepam binding, radial arm maze and shuttle box performance and the behavioral effects of chlordiazepoxide. *Fed Proc* 1984;286.
- 8) Guerin GF, Goeders NE, Dworkin SI, Smith JE. Intracranial self-administration of dopamine into the nucleus accumbens. *Soc Neurosci Abst* 1984;10:1072.

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