

## VITA of Terry E. Robinson (Updated July 2026)

### PERSONAL INFORMATION

FULL NAME: Terry Earl ROBINSON

PLACE OF BIRTH: Rochester, New York, U.S.A.

SEX: Male

CITIZENSHIP: Dual (U. S. A. and Canada)

OFFICE ADDRESS: Department of Psychology  
(Brain & Behavior [formerly Biopsychology] Program)  
University of Michigan  
East Hall, 530 Church St.  
Ann Arbor, MI 48109-1043  
Phone: (734) 358-8055  
e-mail: ter@umich.edu  
website: <https://sites.lsa.umich.edu/terryrobinson/>

HOME ADDRESS: 55 W Delaware Place, Apt 216  
Chicago, IL 60610  
(Phone: 734/358-8055)

PRESENT POSITIONS: Elliot S. Valenstein Distinguished University Professor Emeritus  
of Psychology & Neuroscience  
Professor Emeritus, Department of Psychology and Neuroscience Program  
The University of Michigan (Ann Arbor)

### ACADEMIC BACKGROUND

#### PRIMARY AND SECONDARY

Huntsville Public School,  
Huntsville High School,  
Huntsville, Ontario, Canada (1955-1967)

#### UNIVERSITY

Wisconsin State University, Lacrosse, Wisconsin, U.S.A. (1968-69)  
Sir George Williams University (now Concordia University) (1969-70)  
Montreal, Quebec, Canada  
University of Lethbridge, Lethbridge, Alberta, Canada (1970-72)  
B.A. (Psychology; 1972)  
University of Saskatchewan, Saskatoon, Sask., Canada (1972-73)  
M.A. (Physiological Psychology; awarded 1974)  
University of Western Ontario, London, Ontario, Canada (1973-78)  
Ph.D. (Physiological Psychology; awarded 1978)  
University of Lethbridge, Lethbridge, Alberta, Canada (2016)  
Doctor of Science (*honoris causa*)

### PREVIOUS ACADEMIC POSITIONS

Elliot S. Valenstein Distinguished University Professor of Psychology & Neuroscience,  
Professor, Department of Psychology and Neuroscience Program (2011-2025)

Visiting Professor, Dipartimento di Fisiologia e Farmacologia, Facoltà di Medicina e Chirurgia I,  
Sapienza Università di Roma, Italia (2014)

Elliot S. Valenstein Collegiate Professor of Behavioral Neuroscience (2001-2011)  
Associate Professor, Department of Psychology, University of Michigan (1984-1989)  
Assistant Professor, Department of Psychology, University of Michigan, (1978-1984)  
Post-doctoral Fellow, Department of Psychobiology (with Dr. Gary Lynch),  
University of California, Irvine, CA (1977-1978)  
Lecturer, Department of Psychology, University of Western Ontario, London, Canada (1977)  
Psychometrist (for Dr. Doreen Kimura), Neuropsychology Service, University Hospital,  
London, Ontario, Canada (1976)  
Research Assistant to Dr. C.H. Vanderwolf, Department of Psychology, University of Western Ontario, London,  
Ontario (1973-1974)  
Research Assistant to Dr. Ian Q. Whishaw, Department of Psychology, University of Lethbridge,  
Lethbridge, Alberta, Canada (1971-1972)

## HONORS

B.A. awarded with Great Distinction, University of Lethbridge (1972)  
Fellow, American Association for the Advancement of Science (1988)  
Charter Fellow, The American Psychological Society (1989)  
Alumnus of the Year Award, University of Lethbridge (1992)  
Literature, Science & Arts College Excellence in Research Award (1995)  
Outstanding Faculty Service Recognition Award, Neuroscience Program, University of Michigan (1998)  
Vice-Chair, Gordon Research Conference on Catecholamines (2001)  
Elliot S. Valenstein Collegiate Professorship in Behavioral Neuroscience (2001-2011)  
NIDA Merit Award, R34 DA04294, 2002-2012  
Chair, Gordon Research Conference on Catecholamines, Queen's College, Oxford, UK (2003)  
James McKeen Cattell Dissertation Award, NY Acad. Sciences, Mentor to 2005 recipient, A-N. Samaha  
Listed on ISI HighlyCited.com as one of the highest cited (top 0.5%) scientists in Neuroscience (2006)  
D.O. Hebb Distinguished Scientific Contribution Award, American Psychological Association (2010)  
Elliot S. Valenstein Distinguished University Professorship in Psychology & Neuroscience (2011 - present)  
Fellow, Eastern Psychological Association (2011)  
Distinguished Scientist Award (for Lifetime Achievement), European Behavioral Pharmacology Society (2013)  
William James Fellow Award for Lifetime Achievement, Association for Psychological Science (2014)  
President, European Behavioral Pharmacology Society (EBPS; 2015 - 2017)  
Neal Miller Lecturer, American Psychological Association (2015)  
American Psychological Assoc. Award for Distinguished Scientific Contributions (2016; with K. Berridge)  
Honorary Doctor of Science (*honoris causa*) degree, University of Lethbridge, Alberta, Canada (2016)  
Henry Russel Lectureship, the University of Michigan's highest honor for senior faculty (2018)  
Grawemeyer Award for Outstanding Ideas in Psychology (with Kent Berridge) (2019)

## SCHOLARSHIPS AND FELLOWSHIPS

Thomas J. Watson Bursary, University of Lethbridge (1971)  
Alberta Government Scholarship, University of Lethbridge (1972)  
George Ellis Summer Research Scholarship, University of Lethbridge (1972)  
Natural Science Prize, University of Lethbridge (1972)  
University Graduate Scholarship, University of Saskatchewan (1973)  
Research on Drug Abuse (RODA) Summer Scholarship from the Canadian Non-Medical Use of Drugs Directorate,  
(University of Lethbridge; 1973)  
Research on Drug Abuse (RODA), Summer Scholarship from the Canadian Non-Medical Use of Drugs Directorate,  
(University of Western Ontario; 1974)  
National Research Council of Canada Postgraduate Scholarship, Univ. Western Ontario (1974-1977)  
National Research Council of Canada Postdoctoral Fellowship (1977-1978)  
NIH Research Career Development Award (NINCDS; 1984-1989)  
National Institute of Drug Abuse Senior Scientist Award (2000-2005)

## INVITED SPECIAL LECTURES

Grass Traveling Scientist Lecturer, University of Texas, Austin (1993)

Plenary Lecture, European Society for Biomedical Research on Alcoholism, Stockholm (1997)  
 Grass Traveling Scientist Lecturer, Southern Ontario Neuroscience Association (1997)  
 Plenary Lecture, Congreso Nacional de Psicobiología, Almeria, Spain (2002)  
 Presidential Special Lecture, Society for Neuroscience Annual Meeting, New Orleans (2003)  
 Keynote Lecture, European Behavioural Pharmacology Society, Rome (2004)  
 Keynote Lecture, Society of Experimental and Clinical Neuroscience, Doorwerth, Netherlands (2004)  
 Alberta Heritage Foundation Visiting Speaker, Neuroscience, Univ. Alberta, Edmonton (2005)  
 Matarazzo Lecture, Oregon Health & Sciences University, Portland (2007)  
 Wall Lecture, University of Michigan-Flint (2010)  
 D.O. Hebb Distinguished Scientific Award 2010 Invited Address, APA, Washington, D.C. (2011)  
 Dalbir Bindra Lecture, Department of Psychology, McGill University, Montreal (2011)  
 Invited Presidential Address, Eastern Psychological Association Annual Meeting, Pittsburgh (2012)  
 Charles R. Schuster Memorial Lecture, Dept. of Psychiatry & Behav. Neurosci, Univ. of Chicago (2012)  
 Keynote Lecture, Michigan Chapter of the Society for Neuroscience Annual Meeting, Ann Arbor (2012)  
 Distinguished Scientist Award Plenary Lecture, European Behavioral Pharmacology Society (EBPS; 2013)  
 William James Fellow Award Address, Association for Psychological Science, San Francisco (2014)  
 Harley Hotchkiss Memorial Lecture, Dept. of Neuroscience, University of Lethbridge (2014)  
 Inaugural Lecture, Sussex Addiction Research & Intervention Center, University of Sussex, UK (2015)  
 Neal Miller Lecture, American Psychological Association Annual Meeting, Toronto (2015)  
 Kolb Lecture in Behavioral Neuroscience, Hotchkiss Brain Institute, University of Calgary (2015)  
 Henry Russel Lecture, University of Michigan, Ann Arbor (2018)  
 Mars Plenary Lecture, Society for the Study of Ingestive Behavior, Bonita Springs (2018)  
 Grawemeyer Award Lecture, University of Louisville, Louisville (2019)

## PROFESSIONAL ACTIVITIES AND TEACHING INTERESTS

### MEMBER

Former Member, American College of Neuropsychopharmacology (ACNP)  
 American Association for the Advancement of Science (Fellow since 1988)  
 Association for Psychological Science (Charter Fellow)  
 Society for Neuroscience  
 European Behavioral Pharmacology Society (EBPS; President, 2015-2017)

### EDITORIAL POSITIONS

*Editor-in-Chief*, Behavioural Brain Research (1996-2010; Editorial Board Member, 1994 - present)  
 Neuropsychopharmacology (Editorial Board Member, 1995 - 99)  
 Neuroscience and Biobehavioral Reviews (Editorial Board Member, 1994 - 2012)  
 Neuroscience Protocols (Associate Editor, 1993 - 96)

### AD HOC EDITORIAL CONSULTING (Journals)

Addiction	American Psychologist
Archives of General Psychiatry	Brain
Behavioral Brain Research	Biological Psychiatry
Behavioral and Neural Biology	Brain Research
Behavioral and Brain Sciences	Behavioral Neuroscience
Canadian Journal of Psychology	Cerebral Cortex
Experimental Brain Research	European Journal of Neuroscience
Journal of Comparative Psychology	Experimental Neurology
Journal of Comparative Neurology	Journal of Pharmacology Exp. Therapeutics
Journal of Neurochemistry	Journal of Neuroscience
Journal of Neuroscience Methods	Life Sciences
Journal of Psychopharmacology	Neurochemical Research
Journal of Psychiatric Research	Neuroscience Letters
Neurobiology of Learning & Memory	Nature Neuroscience
Neuropsychopharmacology	Psychopharmacology

Neuroscience  
Pharmacology, Biochemistry & Behavior  
Physiology and Behavior  
Psychobiology  
Perspectives in Psychological Science  
Behavior Therapy  
Journal of Experimental Psychology: Animal

Proceedings National Academy of Sciences  
PLoSOne  
Science  
Trends in Neuroscience  
Addiction Biology  
Review of General Psychology  
Learning and Cognition

#### OTHER CONSULTING

Parke-Davis/Warner Lambert Pharmaceutical Co. (1981)  
Owen, Roberts, Susler & Murphy, P.C. (Law Firm), Decatur, IL (1982-1983)  
Grant application reviews for NSF, NSERC (Canada), MRC (Canada), MRC (UK),  
Wellcome Trust (UK), International Science Fndn., Alberta Heritage Fndn.  
New York State Doctoral Program Review Committee, Cornell Psychology Department, May 1987  
Referee for a ScD degree award, University of Cambridge, England, 2004  
Boehringer Ingelheim, Compulsivity Consultants Meeting, July 7-8, 2005  
Scientific Advisory Board, Methamphetamine Abuse Research Center, OHSU, Portland, OR (2006- )  
Review Panel, RIKEN Brain Science Institute, Tokyo, Japan, May 9-11, 2007  
Consultant, Washington DC Public Defender's Office, 2007  
Scientific Advisory Board, Silvio O. Conte Center, *Neurocircuitry Underlying DBS Effects in OCD: A Window Into Mechanisms of Action*, Suzanne Haber (PI), 2010 - 2014  
External Review Committee, Department of Psychology, University of Colorado, Boulder, Mar. 2012  
Mini-Course on "Addiction: Drugs, Dopamine & Desire", Department of Physiology & Pharmacology, Università di Roma La Sapienza, Rome, Italy, May 7-9, 2014  
Advisory Board, Sussex Addiction Research and Intervention Center, University of Sussex, UK  
External Examiner, PhD degree in Neuroscience, University of Sussex, 2023.

#### NATIONAL & INTERNATIONAL COMMITTEES

Society for Neuroscience Program Committee (2003-2006)  
Society for Neuroscience Program Subcommittee Chair, Theme F: Cognition & Behavior (2006)  
Society for Neuroscience Committee on Committees (2004-2008)  
AAAS Electorate Nominating Committee of the Section on Psychology (2004-2007)  
Chair, Jacob P. Waletzky Memorial Award Committee, SfN (2006-2008)  
Society for Neuroscience, Areas of Expertise Working Group (Mar. 2010)  
Executive Committee & President-Elect, European Behavioral Pharmacology Society (EBPS; 2013 - 2015)  
Executive Committee & President, European Behavioral Pharmacology Society (2015 - 2017)  
Executive Committee & Past-President, European Behavioral Pharmacology Society (2017 - 2019)

#### GRANT REVIEW COMMITTEES

Special Review Committee (SRC), Mammalian Genetics Study Section, NIH (Dec. 5-6, 1985).  
SRC, Basic Psychopharmacology Review Subcommittee, NIMH, June 1987.  
SRC, Drug Abuse Biochemical Research Review Committee, NIDA, June 1988.  
SRC, Research Scientist Award Review Committee, NIMH, March 1989.  
SRC, Neurology Program Projects Study Section, NINDS, May 1989.  
Consultant to the NIMH Board of Scientific Counselors, Intramural Program,  
Review of Clinical Neuroscience Branch, Nov. 1989.  
SRC, Drug Abuse Biomedical Research Review Committee, NIDA, August, 1990.  
Extramural Scientific Advisory Board (ad hoc discussant), NIAAA, May 4-5, 1992.  
Member, Drug Abuse Biomedical Research Review Committee, Pharmacology I Subcommittee,  
National Institute on Drug Abuse, 1991 - 1995.  
Ad Hoc Reviewer, Neuropharmacology Research Subcommittee (NIDA-A), June 1997.  
Ad Hoc Reviewer, Molecular, Cellular & Develop. Neurosci. 5 Review Group, NIH, Feb. 2002.  
Chair, NIDA Special Emphasis Review Panel (ZDA1 KXA-N-38), Dec. 16, 2002.  
Ad Hoc Reviewer, Biobehav. & Behav. Processes IRG (ZRG1 SSS-R), NIH-CSR, Dec. 2003.  
Chair, Special Emphasis Panel (SEP) (ZRG1 IFCN-K-05), NIH-CSR, Aug. 2004.  
Ad Hoc Reviewer, Biological Rhythms & Sleep Study Section, NIH-CSR, Oct. 2005.

NIDA PO1 SEP (ZDA1 MXS-M), Nov. 2005.  
 Ad Hoc Reviewer, Behavioral Pharmacology IRG (ZRG1 BBBP-J), NIH-CSR, Mar. 2006.  
 Chair, SEP (ZRG1 BBBP-J 02), NIH-CSR, Nov. 16, 2006.  
 NIDA SEP (ZDA1 RXL-E), Extinction & Pharmacotherapies for Drug Addiction, July, 2007  
 NIDA SEP (ZDA1 MXS-M), I/START Program, Ad-Hoc Reviewer, Aug., 2007  
 NIDA SEP (ZDA1 MXL-F04) Mouse Gene Development Initiative, May, 2009  
 NIH CSR (ZRG1 F02a J-20) Behavioral Neuroscience Fellowships Study Section, July 20-21, 2009  
 NIDA Board of Scientific Counselors, Ad Hoc Reviewer, Nov. 19-20, 2009  
 NIDA SEP (ZDA1 GXM-A-09) R13 Conference Grants, Mar. 2010  
 NIDA Training and Career Development Subcommittee (NIDA-K), Nov. 3-5, 2010.  
 NIDA SEP (ZDA1 GXM-A-03), B/Start grants, Feb. 2011  
 NIDA SEP (ZDA1 MXS-M (04), B/Start grants, Oct. 2011  
 AXA Foundation Fellowship application reviews, May 2013.  
 NIDA Board of Scientific Counselors, Ad Hoc Reviewer, Oct. 25-26, 2022

#### DEPARTMENT AND UNIVERSITY SERVICE

Psychology Concentration advisor (1978-1980; 1990-94)  
 V.A. Hospital Search Committee (1979-1980)  
 Psychology Graduate Committee (1981-1983)  
 Department of Psychology Augmented Executive Committee (1982-1983)  
 Women's Studies Search Committee (1982-1983)  
 Department of Psychology Executive Committee (1983-1985)  
 Gerontology Search Committee (1984)  
 L.S. & A. College Nominating Committee (1984)  
 Psychobiology Search Committee (1984-1985)  
 Rackham Predoctoral Fellowship Committee (1985)  
 Psychobiology Student Progress Committee (1982-88)  
 Ad Hoc Promotion & Tenure Committee, Dept. Psychiatry (1986)  
 English Composition Board Policy Committee, L.S. & A. (1986-88)  
 Psychology Building Planning and Policy Committee (1986- 88)  
 Neuroscience Ph.D. Program Prelim Exam Committee (1987-88)  
 Acting Director, Neuroscience Laboratory Bldg. (Nov. '87-May, '88; Jan.-Apr., '89)  
 Coordinator, Psychobiology Area Facilities Planning (1985- 88)  
 Interim Director of the Neuroscience Graduate Program (1988-1989)  
 Ad Hoc Promotion & Tenure Committee, Dept. Psychiatry (1989)  
 Cognitive Neuroscience Search Committee (1991)  
 Neuroscience Graduate Program Executive Committee (1986-1991)  
 Psychology as a Natural Science Concentration Advisor (1990-1998)  
 UM Alcohol and Other Drugs Policy Committee (1992-94)  
 Biopsychology Target of Opportunity Search Committee; Chair, (1994-95)  
 Behavioral Neuroscience Search Committee; Chair, (1994-1995)  
 Advisory Committee to the Dean of the Medical School, Directorship of MHRI (1995)  
 Neuroscience Program Curriculum Review Committee (1995)  
 Chair, Biopsychology Area, Department of Psychology (1990-1996)  
 Director, NIDA Training Program in Neuroscience at The University of Michigan (1995-2018)  
 Department of Psychology Business Manager Search Committee (1996)  
 Gerard Undergraduate Summer Research Fellowship Selection Committee (1997)  
 Rackham School of Graduate Studies Search Committee, Neuroscience Program Director (1998)  
 University Committee on Use and Care of Animals (UCUCA), University of Michigan (1998-2001)  
 UM Substance Abuse Research Center Executive Committee (1999 - 2004)  
 Molecular Genetics/Neurobiology Search Committee, MHRI & Biochemistry (2000, 2002)  
 Provost's and Dean's Committee on the UM Neuroscience Initiative (2001-2002)  
 Department of Psychology Executive Committee (2002-2004)  
 Chair, Behavioral Neuroscience Search Committee (2002-2003)  
 Search Advisory Committee for Dean of Rackham and Vice-Provost of Graduate Studies (2005)  
 Chair, Biopsychology Area, Department of Psychology (2007-2008)

Neuroscience Undergraduate Concentration Steering Committee, UM (2008-2011)  
Search Committee, for Director of the Neuroscience Graduate Program (2012)  
Chair, Biopsychology Area, Department of Psychology (2012-2013)  
Chair, Biopsychology Space and Area Renovation Committee (2012-2014)  
Chair, Biopsychology Faculty Search Committee (2012-2013)  
Biopsychology Faculty Search Committee (2013-2014)  
Distinguished University Professorship Selection Committee, Rackham Graduate School (2014-2016)  
Neuroscience Graduate Program Internal Review Committee (2014-2015)  
Biopsychology Graduate Program Admissions Committee (2014-2015)  
University of Michigan Controlled Substances in Research Review Committee (2015-2019)  
Chair, Biopsychology Area Graduate Program Curriculum Review Committee (2015)  
Biopsychology Faculty Search Committee (2015-2016)  
Department of Psychology, Augmented Executive Committee (2019-2020)  
Chair, Biopsychology Space Committee (2021-2022)  
Biopsychology Search Committee, LS&A Collegiate Fellows Program (2022)

#### TEACHING INTERESTS

Behavioral Neuroscience (taught at U of M)  
Drugs of Abuse, Brain and Behavior (taught at U of M)  
The Neuropsychopharmacology of Substance Abuse (taught at U of M)

#### RESEARCH GRANT SUPPORT

I was funded continually from federal sources and/or private foundations for over 45 years.

##### Completed

RO1 DA044204 (Robinson, PI) 12/01/2018-11/30/2024  
NIH/NIDA \$309,543 annual costs year 1  
Title: *Animal Models of Addiction*

The goal of this proposal is to compare and contrast the two most promising animal models of addiction to determine whether they produce changes in brain and behavior that differ only quantitatively, or, whether there are qualitative differences in outcomes, as this information will be critical in evaluating the utility of these different models for understanding the psychology and neurobiology of addiction, and for evaluating potential therapeutics.

P50 DA037844-01 (A. Palmer, PI, U Chicago) 07/01/14 – 6/30/2019  
NIH/NIDA \$205,110 annual direct costs for Project 1  
Role: Co-Investigator/Director Project 1

*Integrated GWAS of complex behavioral and gene expression traits in outbred rats*

This project will utilize a uniquely heterogeneous population of outbred rats (HS) to identify genes associated with complex addiction-related behaviors.

PO1 DA03165  
NIH/NIDA (T.E. Robinson, Program Project PI) 04/01/2012 - 03/31/2019

Title: Variation in the Motivational Properties of Reward Cues: Implications for Addiction

T.E. Robinson, Director, Project 1 “The attribution of incentive salience to reward cues: implications for addiction”

T.E. Robinson, Director of the Administrative Core, and Co-Director of the Behavioral Core

Total annual direct costs: \$909,584.

The purpose of this Project is to characterize individual variation in the propensity to attribute motivational properties to drug-associated cues, to characterize the neurobiological basis, and to explore the relevance to addiction – using preclinical models.

#### PUBLICATIONS AND OTHER SCHOLARLY ACTIVITIES

**Lifetime Citations > 69,700** (see addendum at end of Vita)  
**h-Index = 117**

**A. THESES**

M.A. (University of Saskatchewan, 1974), “The Effects of Posterior Hypothalamic Lesions on the Initiation of Swimming Movements by Rats in Water of Different Temperatures”  
Ph.D. (University of Western Ontario, 1978), “Brainstem Influences on Hippocampal and Neocortical Slow Wave Activation During Waking Behavior and Sleep”.

**B. INVITED DEPARTMENTAL COLLOQUIA & PANELS (since 1995)**

Department of Anatomy, University of Toronto, Jan. 1995  
Alcohol and Drug Abuse Program, Washington State University, Pullman, Feb. 1995  
Department of Psychology, University of Colorado, Boulder, Feb. 1995  
Department of Medical Psychology, Oregon Health Sciences University, Portland, Feb. 1995  
Department of Psychology and Neuroscience Program, Michigan State University, Jan. 1995  
Psychobiology Unit, INSERM U259, Bordeaux, France, Nov. 1995  
Indiana University School of Medicine, Gary, Sept. 1995  
Mental Health Research Institute 40th Anniversary Symposium, UM, Oct. 1995  
National Institute on Drug Abuse, Parklawn Bldg., Rockville, MD, Mar. 6, 1996  
Institute for Physiological Psychology, University of Düsseldorf, Germany, June 1997  
Institute for Psychology, Göteborg University, Sweden, Sept. 1997  
Department of Neurobiology, Duke University, Nov. 1997  
Neuroscience Program, University of Texas, Austin, July 1998  
Department of Psychology, Northeastern University, Boston, Oct. 1998  
Departments of Psychology & Biology, Bowling Green State University, Dec. 1998  
Institute of Psychiatry, Medical University of South Carolina, Charleston, Mar. 1999  
Dept. of Pharmacology, Louisiana State University, Shreveport, LA, May 1999  
Oklahoma Center for Alcohol & Drug-Related Studies, University of Oklahoma, May 1999  
Neuroscience Formal Seminar, University of California, San Francisco, Nov. 1999  
Center for Systems and Behavioral Neurobiology, Concordia University, Montreal, Feb. 2000  
Department of Psychology, Indiana University, Bloomington, April 2000  
Department of Psychiatry, University of Pennsylvania, Philadelphia, May 2000  
Department of Psychology, Rutgers University, May 2000  
Department of Psychology, Florida State University, Tampa, Nov. 2000  
Neuroscience & Aging Institute, Loyola University, Chicago, Feb. 2001  
NIDA Intramural Research Program, Baltimore, Mar. 2001.  
Gallo Clinic and Research Center, UCSF, San Francisco, June 2001  
Medical College of Wisconsin, Psychiatry Grand Rounds, Milwaukee, June 2001  
Psychology and Behavioral Neuroscience Program, Ohio State University, Oct. 2001  
Life Sciences, Values and Society Public Lectures, University of Michigan, Nov. 2001  
Department of Psychiatry, McLean Hospital, Harvard Medical School, Boston, MA, Dec. 2001  
Department of Psychology, University of Konstanz, Konstanz, Germany, May 2002  
Department of Psychology, Hunter College, CUNY, New York, May 2002  
Research Institute on Addictions, SUNY - Buffalo, May 2002  
Department of Experimental Psychology, University of Cambridge, Cambridge, UK, July 2002  
Department of Psychiatry Grand Rounds, St. Joseph Mercy Hospital, Ann Arbor, Oct. 2002  
Center for Basic Neuroscience & Dept. Psychiatry, UT Southwestern Medical Center, Dallas, Feb. 2003  
Brain Awareness Week Symposium, Center for Neuroscience, Bowling Green State University, Mar. 2003  
Department of Pharmacology, Finch University of Health Sciences, North Chicago, May 2003  
Department of Physiology and Neuroscience Institute, Northwestern University, Chicago, May 2003  
Departments of Pharmacology and Psychiatry, University of Chicago, Chicago, May 2003  
Neuroscience Graduate Program, Yale University, New Haven, May 2003  
Center for Addiction and Mental Health, University of Toronto, Feb. 2004  
Department of Pharmacology & Toxicology, University of Texas Medical Branch, Galveston, Feb. 2004  
Department of Neuroscience, University of Minnesota, Minneapolis, April, 2004

Neuroscience Graduate Program, Vanderbilt University, Nashville, April, 2004  
 Center for the Neurobiology of Learning and Memory, University of California, Irvine, May 2004  
 Neuroscience Program and Department of Pharmacology, Université de Montréal, Montreal, May 2004  
 Department of Cell and Molecular Biology, Tulane University, New Orleans, Sept. 2004.  
 Neuroscience Program, University of Utah, Snowbird, UT, Oct. 2004.  
 Neuroscience Program, Temple University, Philadelphia, PA, Dec. 2004.  
 Psychology & Neuroscience Program, Texas A&M University, College Station, TX, Dec. 2004.  
 Department of Psychology & Neuroscience Program, University of Texas, Austin, TX, Dec. 2004.  
 Alberta Heritage Foundation Visiting Speaker, Neuroscience, Univ. Alberta, Edmonton, Feb. 2005.  
 Institute for Neuroscience, University of Bordeaux, Bordeaux, France, Mar. 2005  
 “Mini-Med School” Program, University of Michigan Medical School, May, 2005  
 Department of Psychology, City University of New York (Hunter College), Mar. 2006  
 Rushton Symposium on “Brain, Reward and Addiction”, Florida State University, Mar. 2006  
 Department of Neuroscience, University of Pittsburgh, Pittsburgh, Oct. 2006  
 Neuroscience Program, University of Washington, Seattle, Apr. 2007  
 Department of Pharmacology, University of Rome, Rome, Italy, May 2007  
 Matarazzo Lecture, Dept. Behavioral Neuroscience, Oregon Health & Sciences University, Portland, June 2007  
 Michigan Research Community (MRC) Lecture, UROP Program, Feb. 6, 2008  
 Department of Psychology, University of Sussex, England, Feb. 2008  
 PROFS (Professors Reaching Out For Students) Lecture, UM Motor Board Society, Apr. 8, 2008  
 Weizmann Institute of Science, Israel, June 18, 2009.  
 Department of Pharmacology, University of Rome, Rome, Italy, June 26, 2009  
 NIDA Training Program, University of Chicago, Nov. 13, 2009  
 Wall Lecture, University of Michigan-Flint, Mar. 24, 2010  
 Department of Neuroscience, Rosalind Franklin University of Medicine & Science, North Chicago, May 20, 2010  
 Center for Studies in Behavioural Neurobiology, Concordia University, Montreal, Canada, Aug. 25, 2010  
 Neuroscience Graduate Program, University of Western Ontario, London, Canada, Nov. 29, 2010  
 Center for Decision Research, Booth School of Business, University of Chicago, May 2, 2011  
 Drug and Alcohol Abuse Program, Washington State University, Pullman, WA, May 6, 2011  
 Bindra Lecture, Department of Psychology, McGill University, Montreal, Canada, Oct. 14, 2011  
 Department of Psychology, Northern Illinois University, DeKalb, IL, Oct. 21, 2011  
 Neuroscience Program, Penn State University, State College, PA, Oct. 26, 2011  
 Ernest Gallo Clinic and Research Center, UCSF, Emeryville, CA, Dec. 7, 2011  
 Department of Physiology & Pharmacology, Università di Roma La Sapienza, Rome, Italy, Dec. 22, 2011  
 Department of Pharmacology, Wayne State University, Detroit, MI, Jan. 27, 2012  
 Distinguished Lecture Series in Psychological Sciences, University of Missouri, Columbia, MO, Feb. 16, 2012  
 Invited Presidential Address, Eastern Psychological Association Annual Meeting, Pittsburgh, Mar. 3, 2012  
 Charles R. Schuster Memorial Lecture, Dept. of Psychiatry & Behav. Neurosci, Univ. of Chicago, Mar. 8, 2012  
 Department of Psychology, University of Texas, El Paso, Oct. 25, 2012  
 Panel on “Students, Sleep and Speed”, sponsored by Students for Sensible Drug Policy, UM, Apr. 3, 2013  
 Department of Psychology, University of Texas, Austin, TX, Sept. 25, 2013  
 Department of Pharmacology, University of Tennessee Health Science Ctr., Memphis, TN, Oct. 9, 2013  
 Department of Neuroscience, Medical University of South Carolina, Charleston, SC, Oct. 17, 2013  
 Department of Biological Sciences, Bowling Green State University, Bowling Green, OH, Oct. 30, 2013  
 Grand Rounds, Department of Psychiatry, University of Michigan, Jan. 15, 2014  
 Psychiatry Medical Student Interest Group, University of Michigan, Mar. 26, 2014  
 Neuroscience Program, University of Verona, Verona, Italy, Sept. 11, 2014  
 Harley Hotchkiss Memorial Lecture, Dept. of Neuroscience, University of Lethbridge, Oct. 10, 2014  
 School of Psychology, University of Sussex, Falmer, UK, Oct. 27, 2014  
 Center for Mind/Brain Sciences (CIMEC), University of Trento, Rovereto, Italy, Nov. 6, 2014  
 Neuroscience Seminar, McLean Hospital (Harvard), Boston, MA, Dec. 2, 2014  
 Inaugural Lecture, Sussex Addiction Research & Intervention Center, University of Sussex, UK, May 15, 2015  
 Kolb Lecture in Behavioral Neuroscience, Hotchkiss Brain Institute, University of Calgary, Sept. 25, 2015  
 Department of Neurology, Research Seminar Series, University of Michigan, Oct. 2, 2015  
 Cognition & Cognitive Neuroscience Area Forum, University of Michigan, Oct. 9, 2015  
 National Institute on Alcohol Abuse and Alcoholism (NIAAA), Intramural Program, Bethesda, April 28, 2016

National Institute of Drug Abuse (NIDA), Intramural Program, Baltimore, April 29, 2016.  
 Dept. of Psychology and Brain Sciences, Dartmouth College, Hanover, NH, Nov. 4, 2016  
 Dept. Neurobiology & Behavior, University of California, Irvine, CA, Nov. 9, 2016  
 Department of Psychology, University of California, San Diego, CA, Nov. 10, 2016  
 Djavad Mowafaghian Centre for <sup>[1]</sup>Brain Health Neuroscience, UBC, Vancouver, Dec. 2, 2016  
 Henry Russel Lecture, University of Michigan, Mar. 5, 2018  
 NIDA Training Grant Seminar Series, University of Chicago, Chicago, IL, Apr. 13, 2018  
 Medical Science Training Program, University of Michigan, Nov. 13, 2018  
 Symposium on the Neurobiology of Motivated Behavior, Michigan State University, Lansing, May 16, 2019  
 Hearst Lecture, Indiana University, Bloomington, IN, Oct. 4, 2019  
 Department of Psychology (Retirement of Simona Cabib), Università di Roma La Sapienza, Rome, Italy, Mar. 27, 2025

### **C. PAPERS PRESENTED AT SCIENTIFIC MEETINGS AND PUBLISHED ABSTRACTS**

1. Robinson, T.E., and Whishaw, I.Q. The effects of caudal diencephalic lesions on motor behavior in the rat. Paper presented at the Canadian Psychological Association Annual Meeting, Victoria, B.C., 1973.
2. Whishaw, I.Q., and Robinson, T.E. Hippocampal EEG and behavior: change associated with recovery from large caudal diencephalic lesions. *Proceedings of the Canadian Federation of Biological Societies*, 1973,16,451.
3. Robinson, T.E., and Whishaw, I.Q. The caudal diencephalon and voluntary movement in the rat. *Proceedings of the Canadian Federation of Biological Societies*, 1973, 16, 449.
4. Robinson, T.E., Pappas, B.A., and Vanderwolf, C.H. Noradrenaline and behavior-related EEG activation of the hippocampus and neocortex. *Society for Neuroscience Abstracts*, 1975, 1, 333.
5. Robinson, T.E. Two types of hippocampal rhythmical slow activity and neocortical low voltage fast activity during neuromuscular blockade. Paper presented at the Eastern Psychological Association Annual Meeting, New York, 1976.
6. Robinson, T.E., Kramis, R.C., and Vanderwolf, C.H. Two types of hippocampal rhythmical slow activity and neocortical low voltage fast activity during active sleep in the rat. *Society for Neuroscience Abstracts*, 1976, 2, 888.
7. Robinson, T.E., and Vanderwolf, C.H. Effects of electrical stimulation of the locus coeruleus and nucleus reticularis pontis caudalis on hippocampal and neocortical activation in the rat. Paper presented at the Eastern Psychological Association Annual Meeting, Boston, 1977.
8. Robinson, T.E., Whishaw, I.Q., and Schallert, T. Neocortical and hippocampal electrical activity in the dopamine-depleted rat: relations to behavior and effects of atropine. *Society for Neuroscience Abstracts*, 1978,4, 226.
9. Vanderwolf, C.H., Robinson, T.E., and Pappas, B.A. Contrasting roles of dopamine and  $\beta$ -phenylethyl-amine in Type 1 behavior-related neocortical low voltage fast activity. *Society for Neuroscience Abstracts*, 1979, 5, 355.
10. Chairman, Society for Neuroscience Workshop. “Electrophysiological Events: Watch the Behavior!” Atlanta, 1979.
11. Green, D.J., and Robinson, T.E. Effects of hemicholinium-3 and choline on hippocampal electrical activity during immobility vs. movement. *Society for Neuroscience Abstracts*, 1980, 6, 564, (also presented at the Michigan Chapter of the Society for Neuroscience Annual Meeting, Ann Arbor, 1980).
12. Camp, D.M., Robinson, T.E., and Becker, J.B. Sex differences in the effect of gonadectomy on electrical stimulation-induced rotational behavior. Paper presented at the Canadian Psychological Association Annual Meeting, Toronto, 1981.
13. Camp, D.M., Therrien, B.A., and Robinson, T.E. Spatial learning ability is related to an endogenous asymmetry in the nigrostriatal dopamine system in rats. *Society for Neuroscience Abstracts*, 1981, 7, 455.
14. Becker, J.B., Lorenz, K.A., and Robinson, T.E. Amphetamine-elicited rotational behavior: sex differences and estrous cycle variation are not due to differences in brain levels of amphetamine. *Society for Neuroscience Abstracts*, 1981, 7, 42.
15. Robinson, T.E., Camp, D.M., and Becker, J.B. Sex differences and estrous cycle variation in rotational behavior elicited by electrical stimulation of the nigrostriatal dopamine system. *Society for Neuroscience Abstracts*, 1981, 7, 42.
16. Castañeda, E., Robinson, T.E., and Becker, J.B. Electrical stimulation-induced rotational behavior: Involvement of the nigrostriatal dopamine system. *Society for Neuroscience Abstracts*, 1982, 8, 360.
17. Robinson, T.E., and Becker, J.B. Functional asymmetry in the nigrostriatal dopamine system. *Society for Neuroscience Abstracts*, 1982, 8, 895.

18. Becker, J.B., Robinson, T.E., and Presty, S.K. Plasticity in striatal dopamine activity: Behavioral and biochemical evidence. *Society for Neuroscience Abstracts*, 1982, 8, 360.
19. Therrien, B.A., Camp, D.M., and Robinson, T.E. Sex differences in the effects of unilateral hippocampal lesions on spatial learning. *Society for Neuroscience Abstracts*, 1982, 8, 312.
20. Camp, D.M., Becker, J.B., and Robinson, T.E. Sex differences in the effects of early handling on brain and behavioral asymmetries. *Society for Neuroscience Abstracts*, 1982, 8, 895.
21. Robinson, T.E. Hippocampal rhythmical slow activity (RSA): Relations to behavior, pharmacology and species differences. Invited Address at the International Pharmacology-EEG Group (IPEG) Annual Meeting, Hannover, West Germany, July, 1982.
22. Robinson, T.E. Sex differences in behavioral and brain asymmetries. Invited talk at a symposium on “*Sex Differences in Brain Organization for Cognitive Functions*”, Annual Meeting of the Canadian Psychological Association, Winnipeg, June, 1983.
23. Robinson, T.E., Rock, D.M., and Becker, J.B. Asymmetry and sex differences in the effects of unilateral dopamine depletion on body weight regulation. *Society for Neuroscience Abstracts*, 1983, 9, 558.
24. Castañeda, E., Becker, J.B., and Robinson, T.E. A simple technique for the in vitro measurement of endogenous dopamine release. *Society for Neuroscience Abstracts*, 1983, 9, 997.
25. Becker, J.B., and Robinson, T.E. Influence of estrogen on amphetamine-induced rotational behavior. *Society for Neuroscience Abstracts*, 1983, 9, 558.
26. Robinson, T.E. Variation in the pattern of brain and behavioral asymmetries due to sex differences. Invited talk presented at a symposium on “*Animal Models of Brain Asymmetry*”, Seventeenth Annual Winter Conference on Brain Research, Steamboat Springs, Colorado, January, 1984.
27. Robinson, T.E. Organizer, chairman and participant of a workshop on “*Long-lasting Changes in Brain and Behavior Produced by Stimulants and Stress*”, Seventeenth Annual Winter Conference on Brain Research, Steamboat Springs, Colorado, January, 1984.
28. Robinson, T.E. Long-term effects of stimulants. Paper presented at the “*Gesellschaft for Unendliche Versuche*” Annual Meeting, November, 1984.
29. Robinson, T.E. Enduring changes in behavior produced by amphetamine. *Society for Neuroscience Abstracts*, 1984, 10, 1176.
30. Robinson, T.E. Do asymmetries in the nigrostriatal dopamine system cause behavioral asymmetries or do behavioral asymmetries cause nigrostriatal asymmetries? Invited talk in a symposium on “*Brain asymmetry and neurochemistry*”, 8<sup>th</sup> Annual Meeting of the Canadian College of Neuropsychopharmacology, London, May 1985.
31. Camp, D.M., and Robinson, T.E. Sex differences in an animal model of amphetamine psychosis. *Society for Neuroscience Abstracts*, 1985, 11, 550.
32. Robinson, T.E., Becker, J.B., Moore, C.J., Castañeda, E., and Mittleman, G. Enduring enhancement in mesocortical dopamine utilization in an animal model of amphetamine psychosis. *Society for Neuroscience Abstracts*, 1985, 11, 499.
33. Castañeda, E., Becker, J.B., Wilcox, R., and Robinson, T.E. Sensitization to amphetamine is accompanied by enhanced striatal dopamine release. *Society for Neuroscience Abstracts*, 1985, 11, 499.
34. Robinson, T.E. Sex differences in the enduring effects of stimulant drug use. Invited talk in a symposium on “*Sex, Hormones, Brain and Behavior*”, 19<sup>th</sup> Annual Winter Conference on Brain Research, Keystone, Colorado, January, 1986.
35. Robinson, T.E., Becker, J.B., Young, E., Akil, H. and Castañeda, E. Neural and endocrine responses to footshock stress in rats sensitized to amphetamine. *Society for Neuroscience Abstracts*, 1986, 12, 1482.
36. Camp, D.M. and Robinson, T.E. Sex differences in the effects of gonadectomy on sensitization to repeated intermittent restraint stress. *Society for Neuroscience Abstracts*, 1986, 12, 1481.
37. Adams, F.S., Becker, J.B. and Robinson, T.E. Dopamine metabolites in the ventricular CSF of rats studied with microdialysis. *Society for Neuroscience Abstracts*, 1986, 12, 1478.
38. Becker, J.B., Robinson, T.E. and Freed, W.J. Catecholamine release from tissue grafts into the lateral ventricle studied with microdialysis in freely moving rats. *Society for Neuroscience Abstracts*, 1986, 12, 1478.
39. Castañada, E., Becker, J.B. and Robinson, T.E. Depolarization-induced striatal dopamine release in rats sensitized to amphetamine. *Society for Neuroscience Abstracts*, 1986, 12, 1141.
40. Robinson, T.E. Analogous long-term changes in mesotelencephalic dopamine systems and behavior produced by repeated amphetamine treatment. Invited address in a symposium on “*Sensitization to Psychoactive Drugs: New Perspectives*”, American College of Neuropsychopharmacology 25<sup>th</sup> Anniversary Meeting, Washington, D.C., December, 1986.

41. Robinson, T.E. Sensitization, stimulants and sex. Invited talk in a symposium on "Cocaine actions on the central nervous system: biochemical, behavioral and electrophysiological studies", 20<sup>th</sup> Annual Winter Conference on Brain Research, Vail, January, 1987.
42. Robinson, T.E. Sensitization to stimulants: a model for studying the neurobiology of nonassociative learning in mammals. Presented at the 2<sup>nd</sup> Annual Spring Conference on Behavior and Brain, Banff, Alberta, April, 1987.
43. Gordon, K.E., Statman, D., Johnston, M.V., Robinson, T.E., Becker, J. and Silverstein, F.S. Effects of hypoxia on catecholamine metabolism in neonatal brain. *Ann. Neurol.*, 1987, 22, 435.
44. Robinson, T.E. Stimulant drugs and stress: factors influencing the susceptibility to sensitization. Invited talk in a symposium on, "Stimulant-Induced Hypersensitivity - Behavior and Neuropharmacology", Society for Neuroscience Annual Meeting, New Orleans, 1987.
45. Robinson, T.E. Intracerebral dialysis used to assess compensatory changes in striatal dopamine release after nigrostriatal damage. Invited talk at a satellite symposium on, "*Intracerebral Dialysis and Behavior*", Society for Neuroscience Annual Meeting, New Orleans, 1987.
46. Robinson, T.E. and Whishaw, I.Q. Striatal dopamine release assessed with microdialysis following unilateral nigrostriatal damage. *Society for Neuroscience Abstracts*, 1987, 13, 218.
47. Gordon, K.E., Statman, D., Johnston, M.V., Robinson, T.E., Becker, J. and Silverstein, F.S. Effects of hypoxia on dopamine release in the developing nervous system. *Neurology*, 1987, 38, 3.
48. Robinson, T.E. Intracerebral microdialysis in freely moving animals. Invited talk in a workshop on "In vivo microdialysis and voltammetry for measuring brain neurotransmitters", 21<sup>st</sup> Annual Winter Conference on Brain Research, Steamboat Springs, January, 1988.
49. Robinson, T.E. The long-term consequences of amphetamine abuse. Invited talk in a symposium on "*The Neurobiological Consequences of Stimulant Drug Use*". Michigan Chapter, Society for Neuroscience Annual Meeting, Ann Arbor, March, 1988.
50. Robinson, T.E. Neuronal adaptations responsible for recovery and sparing of function after damage to dopamine systems. Invited talk in a symposium on "*Mechanisms of Recovery From Brain Damage*". Canadian Psychological Association Annual Meeting, Montreal, June, 1988.
51. Robinson, T.E. Amphetamine sensitization in the nucleus accumbens studied with in vivo microdialysis. *Society for Neuroscience Abstracts*, 1988, 14, 527.
52. Gonzalez, A., Barton, P., Becker, J.B., Robinson, T.E., Sintov, A. and Levy, R.J. Recovery from unilateral nigrostriatal dopamine depletion induced by dopamine-secreting polymer implants. *Society for Neuroscience Abstracts*, 1988, 14, 889.
53. Robinson, T.E. Analysis of *in vivo* microdialysates for dopaminergic constituents using coulometric electrochemical detection. Invited talk at a seminar on "*Current Topics in Neurochemistry*" organized by ESA, Inc., in conjunction with the Society for Neuroscience Annual meeting, Toronto, Canada, Nov. 1988.
54. Castañeda, E., Whishaw, I.Q. and Robinson, T.E. Residual extracellular dopamine concentrations in an animal model of Parkinson's Disease: An *in vivo* intracerebral microdialysis study. Presented at the Alberta Heritage Foundation for Medical Research Annual Meeting, Edmonton, Canada, Nov. 1988.
55. Robinson, T.E. and Camp, D.M. The acute and chronic effects of amphetamine use on behavior and extracellular dopamine concentrations in the nucleus accumbens and dorsolateral striatum of freely moving rats. Paper presented at The First International Symposium on Microdialysis Sampling and Allied Analytical Techniques, Indianapolis, May, 1989. Abstract in *Current Separations*, 1989, 9, 84.
56. Mansour, A., Meador-Woodruff, J.H., Camp, D.M., Robinson, T.E., Bunzow, J., Van Tol, H., Civelli, O., Akil, H. and Watson, S.J. The effects of nigrostriatal 6-hydroxydopamine lesions on dopamine (D<sub>2</sub> receptor mRNA) and opioid systems. International Opiate Research Conference, Montreal, 1989.
57. Robinson, T.E., Gonzalez, A., Becker, J.B., Siden, R., Flowers, W. and Levy, R.J. Dopamine replacement with intracerebral controlled-release polymers. Presented at the III<sup>rd</sup> International Symposium on Neural Transplantation, Cambridge, U.K., August, 1989.
58. Mansour, A., Meador-Woodruff, J.H., Camp, D.M., Robinson, T.E., Bunzow, J., Van Tol, H., Civelli, O., Akil, H. and Watson, S.J. Effects of nigrostriatal 6-hydroxydopamine lesions on dopamine (D<sub>2</sub>) receptor mRNA and receptor binding. *Society for Neuroscience Abstracts*, 1989, 15, 1217.
59. Paulson, P.E., Camp, D.M. and Robinson, T.E. Long-term behavioral effects of chronic amphetamine use. *Society for Neuroscience Abstracts*, 1989, 15, 559.
60. Camp, D.M. and Robinson, T.E. A method for repeated intracerebral microdialysis. *Society for Neuroscience Abstracts*, 1989, 15, 559.

61. Yew, J., Paulson, P., Camp, D.M., Ruddock, L., Levy, L. and Robinson, T.E. Methamphetamine neuro-toxicity: residual capacity of nigrostriatal dopamine neurons studied with microdialysis. *Society for Neuroscience Abstracts*, 1989, 15, 1091.
62. Castañeda, E., Whishaw, I.Q. and Robinson, T.E. Changes in extracellular dopamine concentrations measured by *in vivo* intracerebral microdialysis after dopamine depletion. *Society for Neuroscience Abstracts*, 1989, 15, 559.
63. Robinson, T.E. and Camp, D.M. Does amphetamine preferentially increase extracellular dopamine in the mesolimbic system? *Society for Neuroscience Abstracts*, 1989, 15, 559.
64. Robinson, T.E. Regional differences in the acute and chronic effects of amphetamine on dopamine neurotransmission. Invited talk in a symposium on “*In Vivo Neurochemistry and Addiction*” in association with the 19<sup>th</sup> Annual Society for Neuroscience Meeting, Phoenix, Nov. 1989.
65. Robinson, T.E. Organizer and participant in a workshop on “Neurotransmitter replacement with intracerebral controlled release polymers”, 23<sup>rd</sup> Annual Winter Conference on Brain Research, Snowmass, January, 1990.
66. Robinson, T.E., Castañeda, E. and Whishaw, I.Q. Microdialysis studies of neural recovery and sparing of function after brain damage. Invited talk in a symposium on “*Applications of Microdialysis in Biological Systems*” at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Mar. 5-9, 1990, New York City.
67. Camp, D.M. and Robinson, T.E. Repeated intracerebral microdialysis for the measurement of stimulated dopamine release. *Society for Neuroscience Abstracts*, 1990, 16, 130.
68. Paulson, P.E. and Robinson, T.E. Circadian changes in behavior and extracellular dopamine in the nucleus accumbens during amphetamine withdrawal. *Society for Neuroscience Abstracts*, 1990, 16, 130.
69. Ferrel, S.T., Camp, D. M. and Robinson, T.E. Persistent effects of neurotoxic doses of methamphetamine on the extracellular concentration of dopamine in the nucleus accumbens and neostriatum. *Society for Neuroscience Abstracts*, 1990, 16, 130.
70. McFarlane, D.K., Martonyi, B.J., Becker, J.B. and Robinson, T.E. An inexpensive automated system for the quantification of rotational behavior in small animals. *Society for Neuroscience Abstracts*, 1990, 16, 754.
71. Robinson, T.E. The neurobiology of amphetamine psychosis: evidence from studies with an animal model. Invited paper presented at the 14<sup>th</sup> International Taniguchi Symposium on Brain Sciences: *Biological Basis of Schizophrenic Disorders*, Katata, Japan, Sept., 1990.
72. Robinson, T.E. Persistent sensitizing effects of addictive drugs on brain dopamine systems and behavior: implications for addiction and relapse. UCLA-NIDA Conference on Drug Abuse, A “Decade of the Brain Symposium” on *The Biological Basis of Substance Abuse and its Therapy*, Santa Monica, CA, Jan., 1991.
73. Robinson, T.E. Sensitizing effects of addictive drugs. Invited talk in a workshop on “Reward after acute versus chronic psychoactive drugs: mediation by isomorphic or independent neural systems”, 24<sup>th</sup> Annual Winter Conference on Brain Research, Vail, January, 1991.
74. Camp, D.M. and Robinson, T.E. The feasibility of repeated intracerebral microdialysis for within-subjects design experiments on the mesostriatal dopamine system. Paper presented at The Second International Symposium on Microdialysis Sampling and Allied Analytical Techniques, Indianapolis, May, 1991. Abstract published in *Current Separations*, 1991, 10, 78.
75. Robinson, T.E. Persistent consequences of psychomotor stimulant drug use on brain dopamine systems and behavior. Invited talk in a symposium on “*Psychobiological Approaches to Studying Drug Abuse*”, Midwestern Psychological Association Annual Meeting, Chicago, May, 1991.
76. Robinson, T.E. Transient and persistent neural adaptations in dopamine systems: role in addictive behavior. Invited talk in a workshop on “*Sensitization to the behavioral and dopaminergic activating effects of stress and psychomotor stimulants*”, held at the 3<sup>rd</sup> IBRO World Congress of Neuroscience, Montreal, Aug. 1991.
77. Robinson, T.E. The feasibility of repeated microdialysis for within-subjects design experiments. Talk in a workshop on “*Microdialysis in the neurosciences*”, held at the 3<sup>rd</sup> IBRO World Congress of Neuroscience, Montreal, Aug. 1991. Organizer: T. E. Robinson.
78. Robinson, T.E. and Camp, D.M. The feasibility of repeated intracerebral microdialysis. Invited paper presented at the 5<sup>th</sup> International Conference on In Vivo Methods, *Monitoring Molecules in Neuroscience*, Noordwijkerhout, The Netherlands, Sept., 1991.
79. Robinson, T.E. Sensitization to drugs of abuse: role in the development of compulsive behavior, addiction and relapse. Invited talk in a panel on “*Sensitization mechanisms in the pathophysiology of psychotic disorders*”, held at the American College of Neuropsychopharmacology Annual Meeting, San Juan, Puerto Rico, Dec. 1991.
80. Riberiro, S.C.M., Mann, D., Camp, D.M., Berridge, K.C. and Robinson, T.E. Taste reactivity as a measure of hedonics during amphetamine and cocaine withdrawal. *Biological Psychiatry*, 1992, 31, 226A-227A.

81. Mann, D., Riberiro, S.C.M., Camp, D.M., Robinson, T.E. and Berridge, K.C. Hedonics during amphetamine and cocaine withdrawal. Presented at the American Psychiatric Association Annual Meeting, Washington, D.C., May 1992.
82. Robinson, T.E. Addiction as neuroadaptation: a sensitization hypothesis. Abstracts of the Research Society on Alcoholism Annual Meeting, San Diego, CA, June, 1992.
83. Robinson, T.E., Moscary, Z., Chan, E., Noordhoorn, M., Camp, D. and Wishaw, I. Presynaptic neuroadaptations in extracellular dopamine in striatum following a 6-OHDA lesion of the substantia nigra. Abstracts of 7<sup>th</sup> International Catecholamine Symposium, Amsterdam, June 1992.
84. Camp, D.M., Wolfe, E.K. and Robinson, T. E. The acute effects of amphetamine and cocaine on behavior and extracellular dopamine in the nucleus accumbens in Lewis and Fischer 344 rats. *Society for Neuroscience Abstracts*, 1992, 18, 719.
85. Robinson, D.L. , Camp, D.M. and Robinson, T. E. Basal extracellular dopamine in the nucleus accumbens during amphetamine withdrawal. *Society for Neuroscience Abstracts*, 1992, 18, 719.
86. Paulson, P.E., Robinson, T.E. Relationship between motor activity and dopamine neurotransmission in the dorsal and ventral striatum across the day-night cycle. *Society for Neuroscience Abstracts*, 1992, 18, 719.
87. Moscary, Z., Chan, E., Noordhoorn, M., Camp, D.M., Wishaw, I.Q. and Robinson, T.E. Time course of changes in striatal dopamine neurotransmission and behavior following a unilateral 6-OHDA lesion. *Society for Neuroscience Abstracts*, 1992, 18, 719.
88. Meisel, R.L. and Robinson, T.E. A microdialysis study of extracellular accumbens dopamine and sexual behavior in female Syrian hamsters. *Society for Neuroscience Abstracts*, 1992, 18, 719.
89. Ben-Yoseph, O., Ross, B.D., Camp, D.M. and Robinson, T.E. In vivo measurement of the pentose phosphate pathway (PPP) in brain and glioma using a novel precursor. *International Society for Neurochemistry Abstracts*, 1993.
90. Robinson, T.E. The neurobiology of tolerance and sensitization. Invited talk at the 1993 Gordon Research Conference on Catecholamines, Andover, MA, July, 1993.
91. Robinson, T.E. Sensitization to psychomotor stimulants: focus on individual differences. Invited talk at a conference on the “Biological Basis of Individual Sensitivity to Psychotropic Drugs”, held on the Volga River, Russia, May 22-26, 1993.
92. Robinson, T.E. and Berridge, K.C. Incentive-sensitization as the basis of drug craving. Invited talk at a conference on “Sensitization and Tolerance in Behavioral Pharmacology” held in Pistoia, Italy, Sept. 8-10, 1993. Abstract published in *Behavioral Pharmacology*, 1993, 4, 443-444.
93. Paulson, P.E. and Robinson, T.E. Characterization of behavior and extracellular dopamine in the nucleus accumbens during amphetamine withdrawal. *Society for Neuroscience Abstracts*, 1993, 19, 1242.
94. Camp, D.M. and Robinson, T. E. The acute effects of cocaine on behavior and extracellular dopamine in the nucleus accumbens of Lewis and Fischer 344 rats. *Society for Neuroscience Abstracts*, 1993, 19, 1241.
95. Badiani, A., Anagnostaras, S. and Robinson, T. E. Novelty enhances the development of sensitization to the psychomotor stimulant effect of amphetamine. *Society for Neuroscience Abstracts*, 1993, 19, 1242.
96. Anagnostaras, S., Badiani, A. and Robinson, T. E. Context-dependent amphetamine sensitization. *Society for Neuroscience Abstracts*, 1993, 19, 1241.
97. Browman, K.E., Kerwin, K.J. and Robinson, T.E. Behavioral sensitization to amphetamine in Lewis and Fischer rat strains. *Society for Neuroscience Abstracts*, 1993, 19, 1242.
98. Crippens, D., Crombag, H.S. and Robinson, T.E. Contingent amphetamine administration produces behavioral sensitization. *Society for Neuroscience Abstracts*, 1993, 19, 1241.
99. Ross, B.D., Ben-Yoseph, O., Camp, D.M., Robinson, T.E. Measurement of the pentose phosphate pathway (PPP) in brain and glioma in vivo by microdialysis. *Society for Neuroscience Abstracts*, 1993, 19, 1268
100. Robinson, T.E. Behavioral sensitization to psychomotor stimulants. Invited talk in a symposium on “Mechanisms of Drug Behavioral Sensitization”, Experimental Biology ‘94, Anaheim, April 24-28, 1994.
101. Robinson, T.E. and Berridge, K.C. Incentive-sensitization as the basis of drug craving. Invited talk in a symposium on “Drug Craving”, British Association for Psychopharmacology/Interdisciplinary Society of Biological Psychiatry Summer Meeting, Cambridge, July 10-13, 1994.
102. Robinson, T.E. and Berridge, K.C. An incentive-sensitization theory of addiction. Invited talk in a symposium on “Theories of Addiction”, European Behavioral Pharmacology Society Meeting, Berlin, Sept. 11-15, 1994.

103. Badiani, A. and Robinson, T.E. Effects of adrenalectomy on the acute psychomotor activating effects of amphetamine and on the development of sensitization. Abstracts of the European Behavioral Pharmacology Society Meeting, Berlin, Sept. 11-15, 1994.
104. Robinson, T.E. Discussant, Wellcome Frontiers Meeting on the Biological, Social and Clinical Bases of Drug Addiction, Broadway, Worcestershire, England, Sept. 16-21, 1994.
105. Robinson, T.E. Incentive-sensitization and drug-seeking behavior: influence of sex, stress and adrenal hormones. Invited talk in a symposium on "Stress, Gender and Alcohol-Seeking Behavior", National Institute on Alcohol Abuse and Alcoholism, Washington, D.C., Sept. 23-25, 1994.
106. Anagnostaras, S., Schallert, T. and Robinson, T. E. Electroconvulsive shock attenuates context-specificity of amphetamine sensitization. *Society for Neuroscience Abstracts*, 1994, 20, 829.
107. Badiani, A., Morano, I., Akil, H. and Robinson, T.E. Adrenalectomy does not block the development of sensitization to the psychomotor activating effects of amphetamine. *Society for Neuroscience Abstracts*, 1994, 20, 830.
108. Browman, K.E. , Badiani, A., and Robinson, T.E. The role of the hippocampus in behavioral sensitization. *Society for Neuroscience Abstracts*, 1994, 20, 830.
109. Paulson, P.E. and Robinson, T.E. Regional differences in dopamine neurotransmission in the dorsal vs. ventral striatum during amphetamine withdrawal. *Society for Neuroscience Abstracts*, 1994, 20, 830.
110. Robinson, T.E. and Badiani, A. The acute psychomotor response to amphetamine but not nucleus accumbens dopamine release is enhanced in a novel environment. *Society for Neuroscience Abstracts*, 1994, 20, 830.
111. Camp, D.M. and Robinson, T.E. Amphetamine and cocaine pharmacokinetics in Lewis and Fischer 344 rats. *Society for Neuroscience Abstracts*, 1994, 20, 830.
112. Camp, D.M. and Robinson, T.E. Time course of changes in hypothalamic and hippocampal norepinephrine during amphetamine withdrawal. *Society for Neuroscience Abstracts*, 1995, 21.
113. Badiani, A. and Robinson, T.E. Further studies on the enhancing effects of a novel versus home environment on amphetamine sensitization. *Society for Neuroscience Abstracts*, 1995, 21.
114. Browman, K.E. , Badiani, A., Lalley, J.J. and Robinson, T.E. Striatal dopamine concentrations following an acute treatment with amphetamine in a novel versus home environment. *Society for Neuroscience Abstracts*, 1995, 21.
115. Crombag, H.S., Badiani, A. and Robinson, T.E. The development and expression of amphetamine sensitization are attenuated by removing treatment associated cues. *Society for Neuroscience Abstracts*, 1995, 21.
116. Ben-Yoseph, O., Ross, B.D., Camp, D.M. and Robinson, T.E. In vivo measurements of the metabolic response to oxidative stress in the rat brain. *Journal of Neurochemistry*, 1995, 65, Suppl., S193B.
117. Robinson, T.E. Limits of repeated microdialysis sampling. Invited talk at the First International Meeting on Clinical Aspects of Microdialysis, Basel, Switzerland, Mar. 3-4, 1996
118. Robinson, T.E. An incentive-sensitization view of addiction. Invited talk at the First FASEB Summer Conference on Drug Abuse - "Psychostimulants: Issues Related to Craving, Dependence and Treatment", Copper Mountain, July 23-28, 1995.
119. Robinson, T.E. & Berridge, K.C. An incentive-sensitization theory of addiction. Invited talk in a Symposium on "Craving: A Theoretical Concept or Clinical Reality", at the American Psychiatric Association Annual Meeting, New York, May 8, 1996.
120. Robinson, T.E. Circadian changes in striatal dopamine and motor behavior in normal rats and during amphetamine withdrawal. Invited presentation in a Symposium on "Measurement of Neurotransmitter Release in Performing Animals: Experimental and Conceptual Challenges", at the European Behavioral Pharmacology Society Meeting, Cagliari, Italy, May, 1996. (Published in *Behavioural Pharmacology*, 1996, 7 (Suppl. 1), 95).
121. Berridge, K.C. and Robinson, T.E. Normal hedonic taste reactivity patterns and aversion learning after +95% depletion of accumbens/striatal dopamine. Benjamin Franklin/Lafayette Seminar on Ingestive Behavior, Chateau La Napoule, France, June 1996.
122. Robinson, T.E. The neurobiology of addiction: an incentive-sensitization view. Invited talk in a Symposium on "Neuroadaptations resulting from psychomotor stimulant addiction and withdrawal: animal models", at the American Psychological Association Annual Meeting, Toronto, Aug. 12, 1996.
123. Robinson, T.E. Sensitization-related adaptations in monoamine systems: relevance to addiction. Invited talk in a Symposium on "Neuroadaptive mechanisms in catecholaminergic systems relevant to alcoholism and drug abuse", 8<sup>th</sup> International Catecholamine Symposium, Asilomar, CA, Oct. 13-18, 1996.
124. Crombag, H.S., Browman, K.E., Lapidos, K., Badiani, A. and Robinson, T.E. A dose-effect comparison of two measures of psychomotor activation produced by intravenous amphetamine or cocaine. *Society for Neuroscience Abstracts*, 1996, 22, 706.

125. Browman, K.E., Badiani, A. and Robinson, T.E. Environmental influences on the psychomotor response to intravenous cocaine: a dose-effect investigation. *Society for Neuroscience Abstracts*, 1996, 22, 926.
126. Badiani, A., Browman, K.E. and Robinson, T.E. Cocaine-induced lethality is reduced in the presence of cues predictive of drug administration. Paper presented at the 18<sup>th</sup> Meeting of the Italian Society of Pharmacology, Bari, Italy, April 30, 1997 (abstract published in *Pharmacological Research*).
127. Badiani, A., Browman, K.E. and Robinson, T.E. Sensitization to the behavioral effects of cocaine: the role of environmental factors. Paper presented at the 18<sup>th</sup> Meeting of the Italian Society of Pharmacology, Bari, Italy, April 30, 1997 (abstract published in *Pharmacological Research*).
128. Robinson, T.E. The neurobiology of addiction: an incentive-sensitization view. Grass Traveling Scientist Lecture presented at the Annual Meeting of the Southern Ontario Neuroscience Association. London, Ontario, Canada, June 6, 1997.
129. Robinson, T.E. and Berridge, K.C. Addiction as neuroadaptation: the role of drug-induced sensitization. Invited Plenary Lecture, 6<sup>th</sup> Congress of the European Society for Biomedical Research on Alcoholism, June 28 - July 1, 1997, Stockholm, Sweden (abstract published in *Alcohol and Alcoholism*, 1997, 32, 305).
130. Robinson, T.E. To what extent is sensitization to psychostimulants inevitable: modulation of induction and expression by the drug environment. Invited talk at the FASEB Summer Conference on "The Role of Neural and Behavioral Plasticity in Chronic Drug Abuse", Copper Mountain, Colorado, Aug. 10-15.
131. Badiani, A., Oates, M., Day, H.E.W., Akil, H., Watson, S.E. and Robinson, T.E. Amphetamine-induced expression of *c-fos* in the striatum is modulated by environmental stimuli. *Society for Neuroscience Abstracts*, 1997, 23, 522.
132. Ostrander, M.M., Fraioli, S., Browman, K.E., Badiani, A. and Robinson, T.E. The effect of environment on the psychomotor response to amphetamine is not mediated by dopamine overflow in the shell of the nucleus accumbens. *Society for Neuroscience Abstracts*, 1997, 23, 1090.
133. Browman, K.E., Badiani, A. and Robinson, T.E. Dose-dependent environmental influences on the induction of psychomotor sensitization following i.v. amphetamine. *Society for Neuroscience Abstracts*, 1997, 23, 2404.
134. Crombag, H.S., Badiani, A. and Robinson, T.E. The effects of drug-predictive cues on sensitization to the psychomotor stimulant effects of amphetamine. *Society for Neuroscience Abstracts*, 1997, 23, 2404.
134. Fraioli, S., Crombag, H.S., Badiani, A. and Robinson, T.E. Effects of environment on sensitization to the locomotor activating effects of intravenous amphetamine. *Society for Neuroscience Abstracts*, 1997, 23, 2405.
135. Robinson, T.E. and Berridge, K.C. The neurobiology and psychology of drug craving: an incentive-sensitization view. Invited talk at a National Institute on Alcohol Abuse and Alcoholism Workshop on "Treatment and Alcohol Craving", Washington, DC, Oct. 8-9, 1997.
136. Robinson, T.E. Structural modifications in nucleus accumbens and prefrontal cortex neurons produced by prior experience with amphetamine. Presented at the 36<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology, Waikoloa, Hawaii, Dec. 1997.
137. Robinson, T.E. Organizer and speaker for a symposium on "Drug-Induced Sensitization: A Model for Studying Experience-Dependent Neuroplasticity", at the Winter Conference on the Neurobiology of Learning and Memory, Park City Utah, Jan. 1998.
138. Robinson, T.E. The neurobiology and psychology of addiction: an incentive-sensitization view. Invited talk in a symposium on "Positive and Negative Reinforcement: Research and Practice", at the American Society of Addiction Medicine Annual Meeting, New Orleans, April, 1998.
139. Robinson, T.E. The long-term neurobiological consequences of treatment with psychomotor stimulant drugs: implications for psychopathology. Invited talk in a symposium on "Contemporary Issues in Modeling Psychopathology", Tel-Aviv, Israel, June, 1998.
140. Robinson, T.E. Drug sensitization and neuronal change. Invited talk in a symposium on "Brain Plasticity and Behavior", Theoretical and Experimental Neuropsychology Annual Meeting, Montreal, June, 1998.
141. Robinson, T.E. The neurobiology and psychology of addiction: the role of incentive-sensitization. Invited workshop at the 41<sup>st</sup> Annual Institute of Alcohol and Drug Studies, Texas Commission on Alcohol and Drug Abuse, Austin, July, 1998.
142. Robinson, T.E. and Berridge, K.C. Why are addicts motivated to take drugs: sensitization of "wanting" and not "liking". Invited talk at the Fifth International Meeting on Drug Discrimination, "Drug Discrimination in Behavioral Neuroscience", Antwerp, Belgium, Aug., 1998 (Abstract published in *Behavioral Pharmacology*).
142. Robinson, T.E., Badiani, A. and Kolb, B. Immediate early genes, neuronal structure and psychostimulant drugs. Invited talk in a panel on "Neural Plasticity in the Ventral Striatum: Implications for Learning and Drug Dependence", held at the 37<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology, Las Croabas, Puerto Rico, Dec. 1998.

143. Badiani, A., Oates, M., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Effect of environmental novelty on amphetamine-induced *c-fos* expression in D1 and D2 striatal neurons. *Society for Neuroscience Abstracts*, 1998, 24, 954.
144. Robinson, T.E. Drug-induced neuroplasticity: implications for motivational and emotional processes in addiction. Invited talk in a Symposium on "Affect and Plasticity", 5<sup>th</sup> Annual Wisconsin Symposium on Emotion, Madison, April, 1999.
145. Robinson, T.E. The neurobiology and psychology of addiction: an incentive-sensitization view. Invited talk in a Symposium on "Addiction Motivation: Behavioral, Cognitive and Neurobiological Perspectives", American Psychological Society 11<sup>th</sup> Annual Meeting, Denver, June, 1999.
146. Robinson, T.E. On the inevitability of sensitization following exposure to psychomotor stimulant drugs. Invited talk in a session on "Addiction and sensitization: new perspectives" at the Gordon Conference on Catecholamines, Oxford (UK), July 25-30, 1999.
147. Robinson, T.E. The influence of non-pharmacological factors on drug-induced neurobehavioral plasticity. Invited talk at the FASEB Summer Conference on "Biological Vulnerability to Alcoholism and Drug Addiction", Copper Mountain, Colorado, Aug. 1-6, 1999.
148. Robinson, T.E., Mitton, E., Gorney, G. and Kolb, B. Self-administration of cocaine modifies neuronal morphology in nucleus accumbens and prefrontal cortex. *Society for Neuroscience Abstrs.*, 1999, 25, 309.
149. Ostrander, M.M., Day, H.E.W., Badiani, A., Akil, H., Watson, S.E., Robinson, T.E. Environmental modulation of amphetamine-induced *c-fos* mRNA expression. *Society Neuroscience Abstracts*, 1999, 25, 309.
150. Crombag, H.S., Dineen, S., Badiani, A. and Robinson, T.E. Novelty induced enhancement of the acute psychomotor effects of amphetamine and sensitization: role of habituation. *Society for Neuroscience Abstracts*, 1999, 25, 309.
151. Uslaner, J., Badiani, A., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. *c-fos* mRNA expression after acute amphetamine or cocaine: the influence of environmental novelty. *Society for Neuroscience Abstracts*, 1999, 25, 310.
152. Day, H.E.W., Badiani, A., Oates, M. M., Robinson, T.E., Watson, S.E. and Akil, H. Environmental novelty differentially affects amphetamine-induced *c-fos* mRNA in the amygdala and bed nucleus of the stria terminalis. *Society for Neuroscience Abstracts*, 1999, 25, 310.
153. Robinson, T.E. Neurobiology of craving and relapse. Invited delegate to the Binational (NL/USA) Symposium and Workshop on Drug Abuse and Addiction Research and Innovation, Royal Netherlands Academy of Arts and Sciences, Amsterdam, Oct. 19-20, 1999.
154. Robinson, T.E. Environmental modulation of the induction and expression of psychomotor sensitization. Invited presentation at a NIMH Research Workshop on "Long-Term Effects of Stimulant Medications on the Brain: Possible Relevance to the Treatment of ADHD", Washington, DC, Dec. 1-2, 1999.
155. Robinson, T.E. The influence of non-pharmacological factors on drug-induced neurobehavioral plasticity. Invited presentation in a Workshop on "The Neural Mechanisms of Addiction", Instituto Juan March de Estudios e Investigaciones, Madrid, Spain, Dec. 13-15, 1999.
156. Robinson, T.E. Invited presentation in a Panel on, "Extended amygdala, incentive motivation and relapse to drug-taking", Winter Conference on Brain Research, Breckenridge, CO, Jan. 22-29, 2000.
157. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited presentation at the Texas Conference on the Neurobiology of Addiction 2000, Austin, Texas, March 2000.
158. Robinson, T.E. Facilitator, Role of the Ventral Striatum in Plasticity and Learning, Seabrook, South Carolina, April 2000.
159. Robinson, T.E. Drugs of abuse change the brain: relevance to transitions in addiction. Invited presentation at a NIDA Symposium on, "Transitions in Addiction: What We Know and What We Need to Know", Washington, DC, April 28, 2000.
160. Robinson, T.E. Drugs, neuroplasticity and addiction. Presentation: Psychopharmacology Update: From Bench to Bedside in Psychiatric Practice, CME Course, Grand Traverse, MI, July 14-16, 2000.
161. Ferguson, S.M. and Robinson, T.E. Brief exposure to a novel environment prior to amphetamine administration at home promotes psychomotor sensitization. *Society for Neuroscience Abstracts*, 2000, 26.
162. Samaha, A.N., Napier, T.C. and Robinson, T.E. Effect of rate of intravenous cocaine infusion on the development of behavioral sensitization. *Society for Neuroscience Abstracts*, 2000, 26.
163. Ostrander, M.M., Day, H.E.W., Badiani, A., Akil, H., Watson, S.E. and Robinson, T.E. Environmental novelty and past drug history interact to modulate amphetamine-induced *c-fos* mRNA expression. *Society for Neuroscience Abstracts*, 2000, 26.

164. Day, H.E.W., Badiani, A., Oates, M. M., Vittoz, N.M., Robinson, T.E., Watson, S.E. and Akil, H. Expression of CRH and neurotensin mRNA in the amygdala and BST is decreased by a 6-hydroxydopamine lesion of the mesostriatal dopamine system. *Society for Neuroscience Abstracts*, 2000, 26.
165. Uslaner, J., Norton, C., Badiani, A., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Environmental novelty alters the ability of amphetamine and cocaine to induce *c-fos* in the subthalamic nucleus and in distinct cell populations within the dorsal striatum. Presentation at the the 39<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, Dec. 10-14, 2000.
166. Robinson, T.E. Invited presentation in a Workshop on, “Electrophysiology of incentive motivation: can we ‘measure’ the affective states of goal-directed behavior?”, Winter Conference on Brain Research, Steamboat Springs, CO, Jan. 20-27, 2001.
167. Robinson, T.E. Invited presentation in a Workshop on, “Is enhanced dopaminergic neurotransmission the primary mediator of hedonic reward? A comparison of human and animal laboratory studies”, Winter Conference on Brain Research, Steamboat Springs, CO, Jan. 20-27, 2001.
168. Robinson, T.E. Uslaner, J., Norton, C., Badiani, A., Day, H.E.W., Watson, S.E., and Akil, H. Amphetamine and cocaine-induced striatal *c-fos* expression: effect of environmental novelty. International Basal Ganglia Society Triennial Meeting, Waitangi, New Zealand, Feb. 11-15, 2001.
169. Robinson, T.E. Long-term behavioral and neurobiological effects of psychomotor stimulant drugs. Invited presentation at the International Conference on Stimulant Psychosis, Sendai, Japan, Mar. 30-31, 2001.
170. Robinson, T.E. Psychostimulant drug-induced sensitization: the role of drug-environment interactions. Invited presentation at the 9<sup>th</sup> International Catecholamine Symposium, Kyoto, Japan, Apr. 1-5, 2001.
171. Robinson, T.E. Drug-induced neuroplasticity – implications for motivational and emotional processes in addiction. Invited presentation at the Cold Spring Harbor Laboratory Meeting on Learning and Memory, Cold Spring Harbor, NY, Apr. 25-29, 2001.
172. Klebaur, J.E., Ostrander, M.M., Norton, C.S., Watson, S.E., Akil, H. and Robinson, T.E. Environmental modulation of amphetamine-induced *arc* mRNA expression in the prefrontal cortex and nucleus accumbens. Presentation at the College on Problems of Drug Dependence Annual Meeting, Scottsdale, Arizona, June 16-21, 2001.
173. Robinson, T.E. Drug-induced neuroplasticity: implications for addiction. Invited presentation at the Cold Spring Harbor Laboratory Course on, “The Cell Biology of Addiction”, Cold Spring Harbor, NY, Aug. 6-13, 2001.
174. Robinson, T.E. Drug-environment interactions determine patterns of psychostimulant-induced immediate early gene expression in the striatum. Invited talk in a session on “Psychostimulant Modulation of Gene/Protein Expression”, Gordon Conference on Catecholamines, Proctor Academy, NH, July 8-13, 2001.
175. Robinson, T.E. The incentive-sensitization theory of addiction. Invited presentation in a Workshop on, “Evaluation of the role of behavioral sensitization in addiction” at the Joint Meeting of the European Behavioral Pharmacology Society and the European Brain and Behavior Society, Marseille, France, Sept. 8-12, 2001.
176. Kolb, B.E., Gorney, G. and Robinson, T.E. Prior exposure to amphetamine blocks the effects of complex housing on dendritic morphology in the cortex and nucleus accumbens. *Society for Neuroscience Abstracts*, 2001, #337.6.
177. Samaha, A.N., Li, Y. and Robinson, T.E. Rapid and slow, but not intermediate rates of i.v. cocaine infusion induce behavioural sensitization. *Society for Neuroscience Abstracts*, 2001, #442.10.
178. Norton, C.S., Kabbaj, M., Kollack-Walker, S., Watson, S.K., Robinson, T.E. and Akil, H. Social defeat alters cocaine self-administration in high and low responder rats. *Society for Neuroscience Abstracts*, 2001, #442.19.
179. Klebaur, J.E., Ostrander, M.M., Norton, C.S., Watson, S.E., Akil, H. and Robinson, T.E. The ability of amphetamine to evoke *arc* mRNA expression in the striatum and neocortex is modulated by environmental novelty. *Society for Neuroscience Abstracts*, 2001, #977.18.
180. Ferguson, S.M., Norton, C.S., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-evoked *c-fos* mRNA expression in different environments: role of NMDA receptors. *Society for Neuroscience Abstracts*, 2001, #977.19.
181. Li, Y, Bhatnagar, S. and Robinson, T.E. Effects of maternal separation on behavioural sensitization to cocaine. *Society for Neuroscience Abstracts*, 2001, #977.20.
182. Robinson, T.E. Drug-induced neuroplasticity: implications for addiction. Invited presentation in a symposium on “Latest Advances in the Neurobiology of Addiction”, California Society of Addiction Medicine, Marina Del Ray, CA, Oct. 17-20, 2001.
183. Ferguson, S.M., Norton, C., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-induced *c-fos* mRNA expression in two striatal cell populations: role of DA and NMDA receptors. *Dopamine 2002*, Portland, OR, June 2002.
184. Thomas, M.J. and Robinson, T.E. Reconsolidation of amphetamine-conditioned locomotion but not psychomotor sensitization. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/-AnnualMeeting/index.html>)

185. Robinson, T.E. Gorney, G., Savage, V. and Kolb, B.E. Regionally-specific effects of self- and experimenter-administered morphine on dendritic spines. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
186. Uslaner, J., Crombag, H.C., Norton, C., Watson, S.E., Akil, H. and Robinson, T.E. The ability of amphetamine and cocaine to engage the subthalamic nucleus is modulated by prior drug experience and environmental novelty. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
187. Ferguson, S.M., Norton, C., Watson, S.E., Akil, H. and Robinson, T.E. Role of DA and NMDA receptors in amphetamine-evoked *c-fos* mRNA expression in two distinct striatal cell populations. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
188. Hu, M., Crombag, H.C., Robinson, T.E. and Becker, J.B. Acute estrogen enhances acquisition of cocaine self-administration. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
189. Li, Y.L., Kolb, B. and Robinson, T.E. Repeated amphetamine administration increases the density of dendritic spines on medium spiny neurons in the dorsal caudate nucleus. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
190. S.B. Flagel, D.M. Vázquez and T.E. Robinson. Postnatal chronic stress: vulnerability to drug abuse. *Society for Neuroscience Abstracts*, 2002, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
191. Robinson, T.E. Drug-induced neurobehavioral plasticity. Invited presentation at the Cold Spring Harbor Laboratory Course on, "Mouse Behavioral Analysis", Cold Spring Harbor, NY, July, 2002
192. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited plenary address at the 2<sup>nd</sup> Congreso Nacional de Psicobiología, Almeria, Spain, Sept., 2002.
193. Robinson, T.E. Drugs n' dendrites. Invited presentation at a NIDA sponsored Society for Neuroscience Satellite Symposium on "Synaptic Change and Addiction", Orlando, FL , Nov. 2, 2002
194. Samaha, A.N., Gorny, G., Kolb, B. and Robinson, T.E. Morphological changes in medium spiny neurons of the nucleus accumbens as a function of cumulative exposure to amphetamine. Poster presentation at a NIDA sponsored Society for Neuroscience Satellite Symposium on "Neurobiology of Drug Abuse: Cellular Mechanisms", Orlando, Nov. 2, 2002.
195. Robinson, T.E. Dendrites: sites of drug-induced synaptic plasticity. Invited paper presented in a Panel on "Environment-Dependent Dendritic Structural Plasticity: Functional Implications for CNS Disorders" at the 41<sup>st</sup> Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, Dec. 8-12, 2002.
196. Robinson, T.E. Environmental context, psychostimulant drugs and the development of perseverative behavioral disorders. Invited paper in a Panel on "Neuronal Basis of Perseveration" at the 41<sup>st</sup> Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, Dec. 8-12, 2002.
197. Robinson, T.E. Sensitization and addiction. Invited talk in a symposium on "Brain Circuits and Craving" at the 4<sup>th</sup> European College of Neuropsychopharmacology (ECNP) Workshop on the Neuropsychopharmacology of Addiction, Nice, France, Mar. 15-17, 2003.
198. Watson, C.J., Samaha, A.N., Robinson, T.E. and Kennedy, R.T. Application of CE-LIF to *in vivo* monitoring of neurotransmitters: effects of rapid cocaine infusion. Presentation at the 26<sup>th</sup> International Symposium on Capillary Chromatography and Electrophoresis, Las Vegas, NV, May 18-22, 2003.
199. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited plenary address at the Michigan Chapter of the Society for Neuroscience Annual Meeting, Wayne State University, Detroit, May, 2003.
200. Robinson, T.E. The psychology and neurobiology of addiction. Invited Address at the 15<sup>th</sup> American Psychological Society Annual Meeting, Atlanta, May, 2003.
201. Crombag, H.S., Myc, P., Ferrario, C. and Robinson, T.E. The rewarding effects of amphetamine and cocaine do not vary with rate of intravenous drug infusion. European Behavioural Pharmacology Society Annual Meeting, Antwerp, Belgium, Sept. 2003.
202. Ferguson, S.M., Thomas, M.J. and Robinson, T.E. Environmental context modulates morphine-induced *c-fos* mRNA expression in the neocortex and specific striatal cell populations. *Soc. Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
203. Samaha, A.N., Ferguson, S.M. and Robinson, T.E. Rapid intravenous administration potentiates the ability of cocaine to induce psychomotor sensitization and immediate early gene expression. *Society for Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
204. Ferrario, C., Crombag, H.S., Gorny, G., Li, Y., Kolb, B. and Robinson, T.E. Amphetamine or cocaine self-administration produces persistent regionally-specific changes in spine density in prefrontal cortex of rats. *Society for Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)

205. Yang, P., Uslander, J.M., Ferguson, S.M. and Robinson, T.E. Amphetamine-induced arc mRNA expression in the striatum: interactions between dose, environmental context and neuronal phenotype. *Society for Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
206. Crombag, H.S., Ferrario, C., Myc, P. and Robinson, T.E. The rate of intravenous drug delivery does not affect psychostimulant-taking or seeking. *Society for Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>)
207. Li, Y. and Robinson, T.E. Cocaine-induced dendritic plasticity in the nucleus accumbens core (but not shell) is associated with the induction of psychomotor sensitization. *Society for Neuroscience Abstracts*, 2003, (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>).
208. Hu, M., Crombag, H.S., Robinson, T.E. and Becker, J.B. Estradiol enhances the motivation to self-administer cocaine in female rats. *Society for Neuroscience Abstracts*, 2003.
209. Robinson, T.E. Invited talk in a symposium on “Changing Proteins, Changing Brains”, at the 65<sup>th</sup> Annual Meeting of the College on Problems of Drug Dependence (CPDD), Bal Harbour, FL, June 2003.
210. Robinson, T.E. Invited talk on “Drugs, Neuroplasticity and Addiction” in a NIDA Tutorials Workshop at CPDD, Bal Harbour, FL, June 2003.
211. Robinson, T.E. The role of drug-environment interactions in psychostimulant drug-induced sensitization. Invited talk in a symposium at the 34<sup>th</sup> International Narcotics Research Conference (INRC) Annual Meeting, Perpignan, France, July, 2003.
212. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited presentation at the Riken Brain Sciences Institute Summer Program, Tokyo, Japan, Aug. 2003.
213. Samaha, A.N., Ferguson, S.M. and Robinson, T.E. Rapid intravenous administration potentiates the ability of cocaine to induce psychomotor sensitization and engage the mesocorticolimbic system. Presented at the Gordon Research Conference on Catecholamines, Queen’s College, Oxford, UK, Aug. 2003.
214. Ferguson, S.M., Thomas, M.J. and Robinson, T.E. Environmental context and drug history modulate morphine-evoked psychomotor activation and gene expression in the neocortex and striatal cell populations. Presented at the Gordon Research Conference on Catecholamines, Queen’s College, Oxford, UK, Aug. 2003.
215. Robinson T.E. Drugs, neuroplasticity and the transition to addiction. Invited (plenary) Presidential Special Lecture at the Society for Neuroscience Annual Meeting, New Orleans, Nov. 2003.
216. Venton, B.J., Watson, C.J., Samaha, A.-N., Robinson, T.E. and Kennedy, R.T., Monitoring amine neurotransmitters in awake rats using microdialysis with on-line capillary electrophoresis detection, 36<sup>th</sup> Central Regional Meeting of the American Chemical Society, June 2004.
217. Robinson T.E. Drugs, neuroplasticity and the transition to addiction. Invited Keynote Address, 16<sup>th</sup> Canadian Meeting on Behaviour and Brain, Fernie, BC, Canada, Feb. 2004.
218. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited presentation in a NIDA organized symposium on “Moving the Targets: The Neurobiology of Addiction”, at the American Psychiatric Association Annual Meeting, New York, May, 2004.
219. Robinson T.E. Drugs, neuroplasticity and the transition to addiction. Invited Keynote Lecture sponsored by the Society of Experimental and Clinical Neuroscience (EKN), at the Dutch Endo-Neuro-Psycho (ENP) Annual Meeting, Doorwerth, Netherlands, June 2004.
220. Venton, B.J., Kennedy, R.T., and Robinson, T.E. Monitoring fast changes in amine neurotransmitters using microdialysis with on-line capillary electrophoresis detection, Abstracts of Papers of the American Chemical Society, 2004, 228, U38.
221. Robinson T.E. Drugs, neuroplasticity and addiction. Keynote Lecture at the European Behavioural Pharmacology Society Workshop on *Neurobehavioural Plasticity*, Rome, Italy, Sept., 2004.
222. Flagel, S.B., Simmons, T., Robinson, T.E. and Akil, H. Individual differences in Pavlovian conditioned approach behavior. Poster presentation at the European Behavioural Pharmacology Society Workshop on *Neurobehavioural Plasticity*, Rome, Italy, Sept., 2004.
223. Flagel, S.B., Robinson, T.E. and Akil, H. Individual differences in Pavlovian conditioned approach behavior. *Society for Neuroscience Abstracts*, 2004, for all SfN abstracts listed below see: (<http://web.sfn.org/content/Publications/AnnualMeeting/index.html>).
224. Briand, L.A., Maren, S. and Robinson, T.E. Enhancement of auditory fear conditioning by environmental complexity is attenuated by prior amphetamine sensitization. *Society for Neuroscience Abstracts*, 2004.
225. Ferrario, C.R., Gorny G., Crombag, H.S., Li, Y., Kolb, B. and Robinson, T.E. Escalated cocaine self-administration produces robust psychomotor sensitization and changes in spine density in the nucleus accumbens core and medial prefrontal cortex. *Society for Neuroscience Abstracts*, 2004.
226. Samaha, A.N., Yau, W. and Robinson, T.E. Increasing the rate of nicotine delivery facilitates its ability to produce

- behavioural sensitization and regulate gene expression. *Society for Neuroscience Abstracts*, 2004.
227. Acerbo, M.J., Robinson, T.E. Sex differences in Pavlovian conditioned approach and conditioned reinforcement. *Society for Neuroscience Abstracts*, 2004.
  228. Ferguson, S.M., Yang, P-W., Fasono, S., Brambilla, R. and Robinson, T.E. Manipulation of the ERK/MAPK signaling cascade alters cocaine-evoked gene expression and the development of psychomotor sensitization. *Society for Neuroscience Abstracts*, 2004.
  229. Jedynak, J. Backos, D., Esteban, J. and Robinson, T.E. Visualizing neuronal morphology via in vivo viral-mediated gene expression. *Society for Neuroscience Abstracts*, 2004.
  230. Robinson, T.E. Invited presentation in a Panel on, "Your Cortex on Drugs: Plasticities Beyond the Nucleus Accumbens". Winter Conference on Brain Research, Breckenridge, CO, Jan. 23-28, 2005.
  231. Robinson, T.E. Invited presentation in a Panel on, "Mesolimbic Plasticity and Behavioral Sensitization to Psychostimulants". Winter Conference on Brain Research, Breckenridge, CO, Jan. 23-28, 2005.
  232. Robinson T.E. Drugs, neuroplasticity and addiction. Invited presentation in a symposium on, "Adiccion a las Drogas: Adaptation o Toxicidad Neuronal", Cordoba, Spain, Mar. 31-Apr. 2, 2005.
  233. Robinson, T.E. Behavioral and neurobiological consequences of escalating cocaine use. Invited presentation at the Gordon Research Conference on Catecholamines, Proctor Academy, NH, July. 2005.
  234. Robinson T.E. Long-lasting behavioral and neurobiological consequences of exposure to drugs of abuse: implications for addiction. Invited Workshop, Florida Alcohol and Drug Abuse Association Annual Conference, Orlando, FL, Aug. 24-26, 2005.
  235. Flagel, S.B., Watson, S.J., Robinson, T.E. and Akil, H. Individual differences in the propensity to approach signals vs. goals promote different adaptations in the dopamine system. Poster presentation at the 11th Biennial European Behavioural Pharmacology Society Meeting, Barcelona, Spain, Sept. 9-12, 2005.
  236. Robinson, T.E. Theories of drug craving. Invited presentation in a Workshop at the 11th Biennial European Behavioural Pharmacology Society Meeting, Barcelona, Spain, Sept. 9-12, 2005.
  237. Robinson, T.E. Persistent effects of psychostimulant drugs on brain and behavior. Invited presentation at a NIEHS/NIDA Conference on Chemical Intolerance and Addiction, Research Triangle Park, NC, Sept. 19-20, 2005.
  238. Venton, B.J., Watson, C.J., Samaha, A.-N., Robinson, T.E. and Kennedy, R.T., Rapid and transient increases in amygdala glutamate and GABA release during acquisition and expression of conditional fear in rats. *Society for Neuroscience Abstracts*, 2005.
  239. Uslaner, J.M., Yang, P., Robinson, T.E. Subthalamic nucleus lesions enhance the psychomotor activating, incentive motivational and neurobiological effects of cocaine. *Society for Neuroscience Abstracts*, 2005.
  240. Yang, P., Uslaner, J.M., and Robinson, T.E. Subthalamic nucleus lesions facilitate appetitive conditioned approach. *Society for Neuroscience Abstracts*, 2005.
  241. Ferrario, C.R. and Robinson, T.E. Amphetamine pretreatment facilitates subsequent escalation of cocaine self-administration behavior. *Society for Neuroscience Abstracts*, 2005.
  242. Li, Y., Kolb, B. and Robinson, T.E. Psychostimulant drugs alter the effect of complex housing on synaptic plasticity in CA1 pyramidal neurons. *Society for Neuroscience Abstracts*, 2005.
  243. Flagel, S.B., Watson, S.J., Robinson, T.E. and Akil, H. Individual differences in the propensity to approach signals vs. goals promote different adaptations in the dopamine system. Poster presentation at the Annual Meeting of the American College of Neuropsychopharmacology, Kona, Hawaii, Dec. 2005. [Abstract published in *Neuropsychopharmacology*, 2005, 30, Suppl. 1, S92]
  244. Robinson, T.E. Why are drugs that enter the brain rapidly potentially the most addictive? Invited Panel presentation at the Annual Meeting of the American College of Neuropsychopharmacology, Kona, Hawaii, Dec. 2005. [Abstract published in *Neuropsychopharmacology*, 2005, 30, Suppl. 1, S68]
  245. Robinson, T.E. Invited presentation in a Panel on, "Time dependent changes in drug-seeking after withdrawal: cellular, molecular, systems and behavioral aspects". Winter Conference on Brain Research, Steamboat Springs, CO, Jan. 21-27, 2006.
  246. Robinson, T.E. Invited presentation in a Panel on, "Mechanisms of structural plasticity of dendritic spines". Winter Conference on Brain Research, Steamboat Springs, CO, Jan. 21-27, 2006.
  247. Robinson, T.E. Why are drugs that enter the brain rapidly potentially the most addictive? Invited presentation at a Workshop organized by the UM Substance Abuse Research Center on "Prescription Psychostimulants: Misuse and Abuse", Feb., 2006.
  248. Jedynak J.P., Uslaner, J.M., Esteban, J.A., and Robinson, T.E. Methamphetamine-induced structural plasticity in the dorsal striatum. Poster presented at the EMBO Lecture Course on "Molecular and Cellular Cognition", Venice, Italy. July 1-6, 2006.
  249. Briand, L.A., Flagel, S.B., Watson, S.J., Akil, H., Sarter, M. and Robinson, T.E. Long access cocaine self-

- administration leads to persistent cognitive deficits. *Society for Neuroscience Abstracts*, 2006.
250. Gula, E.L., Flagel, S.B., Turner, C.A., Robinson, T.E., Watson, S.J. and Akil, H. A role for the fibroblast growth factor system in cocaine sensitization. *Society for Neuroscience Abstracts*, 2006.
  251. Flagel, S.B., Watson, S.J., Robinson, T.E. and Akil, H. Individual differences in the propensity to approach signals vs. goals predict behavioral sensitization to cocaine. *Society for Neuroscience Abstracts*, 2006.
  252. Li, Y., Kolb, B. and Robinson, T.E. Effects of neonatal lesion of the mPFC on amphetamine-induced sensitization. *Society for Neuroscience Abstracts*, 2006.
  253. Robinson, T.E. Invited presentation at an Addiction Neuroscience Network Australia (ANNA) Workshop, Hamilton Island, Australia, Sept. 7-10, 2006.
  254. Flagel, S.B., Watson, S.J., Robinson, T.E. and Akil, H. An animal model of individual differences in “conditionability”: relevance to psychopathology. Poster presented at the Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL, Nov. 2006.
  255. Robinson, T.E. Drug-induced structural plasticity. Invited presentation in a Panel on, “Drug Addiction: A Disorder of Pathological Learning and Memory”, at the Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL, Nov. 2006.
  256. Robinson, T.E. Drugs, neuroplasticity and addiction. Invited presentation at a Keystone Symposium on, “Neurobiology of Addiction”, organized by S.F. Heinemann & E.J. Nestler, Santa Fe, Feb. 25-Mar. 1, 2007.
  257. Robinson, T.E. Structural plasticity associated with exposure to drugs of abuse. Invited presentation, Gordon Research Conference: *Dendrites: Molecules, Structure and Function*, Mar. 18-23, 2007, Ventura, CA.
  258. Robinson, T.E. Plasticity underlying brain reward systems. Invited address in a symposium on, “What is Addiction?” at the American Society of Addiction Medicine State of the Art Course, Washington, DC, Oct. 24-26, 2007.
  259. Wakabayashi, K.T., Reynolds S.M., and Robinson, T.E. The influence of rate of intravenous cocaine infusion on c-fos expression in the patch versus matrix sub-compartments of the striatum. *Society for Neuroscience Abstracts*, 2007.
  260. Flagel, S.B., Clinton, S.M., Watson, S.J., Robinson T.E. and Akil, H. Rats selectively bred on the basis of a novelty-seeking trait exhibit individual differences in the propensity to approach signals vs. goals: Implications for addiction. *Society for Neuroscience Abstracts*, 2007.
  261. Briand, L., Flagel, S.B., Paulson, P. E., Morrow, T. J. and Robinson, T.E. Alterations in regional cerebral blood flow following extended access cocaine self-administration in rats. *Society for Neuroscience Abstracts*, 2007.
  262. Robinson, T.E., Briand, L.A. and Gross, J.P. Impaired object recognition memory following extended access cocaine self-administration. *Society for Neuroscience Abstracts*, 2007.
  263. Dell’Orco, J.M., Uslaner, J.M., Robinson, T.E. and Pevzner, A. Subthalamic nucleus lesions enhance the ability of cocaine and food to imbue associated stimuli with incentive salience. *Society for Neuroscience Abstracts*, 2007.
  264. Robinson, T.E. & Berridge, K.C. The incentive-sensitization theory of addiction: some current issues. Invited talk in a symposium on, “Neurobiology of Addiction: New Vistas” at The Royal Society, London, England, Feb. 25-26, 2008.
  265. Clark JJ, Flagel SB, Evans SB, Akers CA, Clinton SM, Robinson TE, Akil H, Phillips PEM, Transfer of dopamine-encoded “prediction errors” from unconditioned to conditioned stimuli requires an attribution of incentive salience. *International Conference on In Vivo Methods*. Vancouver, British Columbia, August 2008.
  266. Phillips PEM, Clark JJ, Flagel SB, Clinton SM, Robinson TE, Akil H, Transfer of phasic dopamine release from unconditioned to conditioned stimuli requires the attribution of incentive salience. *Society for Neuroscience Abstracts*, 2008.
  267. Wang JM, Flagel SB, Jedynek, J, Clinton SM, Robinson TE, Watson, SJ, and Akil H, Basal differences in spine density in a selectively bred population of rats with a predisposition for addictive behavior. *Society for Neuroscience Abstracts*, 2008.
  268. Flagel, S.B., Strongwater, A, Clinton, S.M., Watson, S.J., Robinson T.E. and Akil, H. Individual differences in “impulsive action” vs. “impulsive choice” in rats selectively bred on the basis of a novelty-seeking trait. *Society for Neuroscience Abstracts*, 2008.
  269. Cameron C.M., Flagel, S.B., Watson, S.J., Akil, H. and Robinson T.E. Individual differences in the propensity to attribute incentive salience to cues that predict impending reward. *Society for Neuroscience Abstracts*, 2008.
  270. Robinson, T.E. Discussant in a panel on “Factors affecting the development and expression of sensitization in animals and humans: relevance for addiction”, American College of Neuropsychopharmacology (ACNP), Scottsdale, AZ, Dec. 2008.
  271. Flagel, S.B., Leah, L.M., Czuj, A.K., Clinton, S.M., Watson, S.J., Robinson, T.E., Akil, H. Dopamine is necessary for learning a “sign-tracking” but not a “goal-tracking” conditional response. *Society for Neuroscience Abstracts*, 2009.
  272. Saunders, B.T., Robinson T.E. Individual differences in attributing incentive salience to a food-related cue predict the ability of a cocaine-associated cue to maintain and reinstate cocaine self-administration behavior. *Society for Neuroscience Abstracts*, 2009.

273. Wakabayashi, K.T., Robinson T.E. Extended access to self-administered cocaine promotes a marked increase in drug intake if it is delivered rapidly (5-45s), but not slowly (90s). *Society for Neuroscience Abstracts*, 2009.
274. Morrow, J.D., Maren, S., Robinson, T.E. Individual differences in conditioned responses to appetitive cues predict the magnitude of conditioned responses to aversive cues. *Society for Neuroscience Abstracts*, 2009.
275. Robinson, T.E. Dissociating the predictive vs. incentive motivational properties of reward-related cues. Presentation in a symposium on, "Advances in Motivation Science: Self Control Research and Interventions", Motivation Science Center, Columbia University, April, 2009
276. Meyer, P.J., Aldridge, J.W., Robinson, T.E. Individual differences in the ability of amphetamine to potentiate the conditioned reinforcing properties of a food-associated cue. Presented at the Gordon Research Conference on Catecholamines, University of New England, ME, Aug. 2009.
277. Robinson, T.E. Dissociating the predictive vs. incentive motivational properties of reward-related cues. Invited presentation in a symposium on, "Learning, Reward-Seeking & Behavior", Institute for Advanced Studies, Hebrew University, Jerusalem, June 15-17, 2009.
278. Robinson, T.E. Individual differences in the attribution of incentive salience to reward-related cues. Invited presentation at a PENS/Blackwell Summer School on, "Stress, Drug Addiction & Eating Disorders", Dubrovnik, Croatia, June 21-25, 2009.
279. Saunders, B.T., Robinson, T.E. Individual differences in responsivity to a cocaine-associated cue: implications for vulnerability to addiction. NIDA Early Career Investigator Poster Session, American Psychological Association Annual Meeting, Toronto, Canada, Aug. 2009.
280. Clark, J.J., Flagel, S.B., Evans, S.B., Akers, C.A., Clinton, S.M., Willuhn, I., Robinson, T.E., Akil, H. and Phillips, P.E.M. Dopamine-encoded prediction errors under different reinforcement learning strategies. Poster presented at the Multidisciplinary Symposium on Reinforcement Learning, Montreal, Canada, June 18-19, 2009.
281. Flagel SB, Robinson TE, Clark JJ, Mayo LM, Czuj AK, Willhun I, Akers CA, Clinton SM, Phillips PEM and Akil H. Dopamine and desire: dopamine codes for the "attractiveness" of reward-associated cues. Poster at the Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL, Dec. 2009.
282. Morrow J.D., Maren S and Robinson T.E. Individual differences in conditioned responses to appetitive cues predict the magnitude of conditioned responses to aversive cues. Poster presented at the Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL, Dec. 2009.
283. Lomanowska A.M., Lovic V., Rankine M., Mooney S.J., Robinson T.E. and Kraemer G.W. Early life social isolation increases incentive salience of reward-related cues. Poster presented at the Canadian Association for Neuroscience Annual Meeting, Ottawa, May 2010.
284. Robinson, T.E. Addiction. Master Class on Addiction, IVO, The Hague, The Netherlands, Apr. 14-16, 2010.
285. Robinson, T.E. Individual variation in the ability of reward cues to instigate desire (and consumption). Invited presentation at a symposium on, "The Interdisciplinary Science of Consumption: Mechanisms of Allocating Resources Across Disciplines", University of Michigan, Ann Arbor, May 12-15, 2010.
286. Robinson, T.E. Drugs, dopamine and desire. Invited presentation at the 2010 Aquitaine Conference on Neurosciences, Arcachon, France, Oct. 12-15, 2010.
287. Yager, L.M., Robinson, T.E. Variation in the propensity to attribute incentive salience to a food cue predicts the attractiveness of a cocaine cue. *Society for Neuroscience Abstracts*, 2010.
288. Meyer P.J., Aldridge J.W., Robinson T.E. Amphetamine enhances the reinforcing effect of visual and auditory food cues. *Society for Neuroscience Abstracts*, 2010.
289. Saunders, B.T., Robinson, T.E. Variation in attributing incentive salience to a food-related cue predicts motivation for cocaine and cocaine-primed drug seeking. *Society for Neuroscience Abstracts*, 2010.
290. Akil, H., Waselus, M., Flagel, S.B., Turner, C.A., Robinson, T.E., Watson, Jr., S.J. Effects of cocaine sensitization on cell survival and proliferation in the dentate gyrus of rats selectively bred for a novelty-seeking trait. *Society for Neuroscience Abstracts*, 2010.
291. Ma, S.T., Meyer, P., Ferrario, C.R., Robinson, T.E. Individual differences in approach to a food-associated cue predict the development of a cocaine-induced conditioned place preference. *Society for Neuroscience Abstracts*, 2010.
292. Flagel S.B., Lee, P., Mayo, L.M., Mills, K., Garcia-Fuster, J., Blandino, P., Clinton S.M., Watson, S.J. Robinson T.E. and Akil H. Examination of addictive behavior in rats selectively bred for response to novelty. *Society for Neuroscience Abstracts*, 2010.
293. Lovic, V., Saunders, B.T., Yager, L.M., Czuj, A.K. and Robinson, T.E. Variation in attributing incentive salience to a food cue is associated with action impulsivity. *Society for Neuroscience Abstracts*, 2010.
294. Morrow J.D., Maren S and Robinson T.E. An animal model of vulnerability to comorbid post-traumatic stress disorder and addiction. *Society for Neuroscience Abstracts*, 2010.

295. Lomanowska A.M., Lovic V., Rankine M., Mooney S.J., Robinson T.E. and Kraemer G.W. Early life social isolation increases incentive salience of reward-related cues. *Society for Neuroscience Abstracts*, 2010.
296. Robinson, T.E. Individual differences in the attribution of incentive salience to reward cues: implications for addiction. Invited talk in a Symposium on, “The Critical Role of Cues and Contexts in Reward: Relevance for Addiction”, Society for Neuroscience Annual Meeting, San Diego, Nov. 14, 2010.
297. Robinson, T.E. The touch of temptation: individual differences in the ability to resist reward cues - implications for addiction. Invited talk in a Panel on “Beyond Recreation: What Does Dopamine Have to Do with Addiction?” Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, Dec. 5-9. 2010.
298. Saunders, B.T. and Robinson, T.E. Nucleus accumbens core dopamine receptor blockade selectively disrupts the expression of approach to an incentive stimulus. *Gordon Research Conference on Catecholamines*, Bates College, Lewiston, ME, Aug. 7-12, 2011.
299. Robinson, T.E. The touch of temptation: individual differences in the ability to resist reward cues and implications for addiction. D.O Hebb Distinguished Scientific Award Invited Address, American Psychological Association Annual Meeting, Washington, D.C., Aug. 6, 2011.
300. Robinson, T.E. Individual differences in cue-evoked motivational processes and in cognitive control: potential mechanisms and impact on risk for addiction. Invited talk at the 14th Biennial European Behavioural Pharmacology Society Meeting, Amsterdam, The Netherlands, Sept. 27-29, 2011.
301. Yager, L.M. and Robinson, T.E. Individual variation in the ability of a classically conditioned cocaine-cue to reinstate cocaine self-administration behavior. *Society for Neuroscience Abstracts*, 2011.
302. Flagel, S.B., Cameron, C., Pickup, K., Watson, S.J., Akil, H. and Robinson, T.E. A food predictive cue enhances c-fos mRNA expression in cortico-striatal-thalamic circuitry only in rats that attribute incentive salience to the cue. *Society for Neuroscience Abstracts*, 2011.
303. Meyer, P.J., Robinson, T.E. and Aldridge, J.W. Nucleus accumbens and ventral pallidum neurons preferentially encode the incentive value of a food-associated cue. *Society for Neuroscience Abstracts*, 2011.
304. Saunders, B.T. and Robinson, T.E. A cue evokes relapse in the face of adverse consequences preferentially in rats prone to attribute incentive salience to reward cues. *Society for Neuroscience Abstracts*, 2011.
305. Saunders, B.T. and Robinson, T.E. Nucleus accumbens dopamine receptor blockade selectively disrupts the expression of approach to an incentive stimulus. *Society for Neuroscience Abstracts*, 2011.
306. Waselus, M., Flagel, S.B., Turner, C.A., Robinson, T.E., Akil, H. and Watson, S.J. Fibroblast growth factor 2 (FGF2) mRNA expression is differentially affected by the interaction between cocaine and environment in rats selectively bred for response to novelty. *Society for Neuroscience Abstracts*, 2011.
307. Angelakos, C.C., Paolone, G., Meyer, P., Depolo, L., Robinson, T.E. and Sarter, M. Sign- versus goal-trackers, top-down control of attention and underlying cholinergic mechanisms. *Society for Neuroscience Abstracts*, 2011.
308. Morrow JD, Maren S, and Robinson TE. Pavlovian conditioned approach to a reward cue predicts fear incubation. *8<sup>th</sup> Biennial Federation of European Neuroscience Societies Forum of Neuroscience*, Barcelona, 2012
309. Robinson, T.E. Individual variation in resisting temptation: implications for addiction, Keynote Lecture, *Michigan Chapter of the Society for Neuroscience Annual Meeting*, Ann Arbor, May 11, 2012
310. Fitzpatrick, C.J., Perrine, S.A., Ghouddoussi, F., Galloway, M.P., Robinson, T.E., and Morrow, J.D. Sign-tracking Pavlovian conditioned approach behavior is associated with elevated markers of cellular activity, energy metabolism, and lipid catabolism in the nucleus accumbens. *Society for Neuroscience Abstracts*, 2012.
311. Yager, L.M. and Robinson, T.E. A nicotine cue is equally attractive to sign-trackers and goal-trackers but differs in its conditional reinforcing properties. *Society for Neuroscience Abstracts*, 2012.
312. Lovic, V., Reece, C.L., Yager, L.M., Vander Weele, C.M., Aragona, B.J., and Robinson, T.E. Individual differences in the reinstatement of drug-seeking produced by a Pavlovian cue associated with the short-acting opioid, remifentanyl. *Society for Neuroscience Abstracts*, 2012.
313. Saunders, B.T., Aurbach, E.L., and Robinson, T.E. Individual variation in the influence of a cocaine-associated context on behavior. *Society for Neuroscience Abstracts*, 2012.
314. Morrow, J.D., Maren, S. and Robinson, T.E. Pavlovian conditioned approach to a reward cue predicts fear incubation. *Society for Neuroscience Abstracts*, 2012.
315. Parker, C.C., Flagel, S.B., Robinson, T.E. and Palmer, A.A. Genome wide association study of the attribution of incentive salience in outbred Sprague Dawley rats. Complex Trait Community 12th Annual Meeting, Madison, Wisconsin, May, 2013.
316. Robinson, T.E. Individual variation in the motivational properties of cues associated with psychostimulants or opioids: contribution of dopamine. Invited talk in a symposium, “Differential Role of the Mesolimbic System in Psychostimulant Versus Opioid Reward”, *Dopamine 2013*, Alghero, Italy, May 2013.
317. Lesaint, F., Sigaud, O., Flagel, S.B., Robinson, T.E., and Khamassi, M. Modeling individual differences observed in

- Pavlovian autoshaping in rats using a dual learning systems approach and factored representations. *Third International Symposium on Biology of Decision Making*, Paris, May 29-30, 2013.
318. Robinson, T.E. Individual variation in resisting temptation: implications for impulse control disorders, 12<sup>th</sup> Charité Conference on Psychiatric Research: Emotional Neuroscience, Berlin, Aug. 30-31, 2013.
  319. Robinson, T.E. Individual variation in resisting temptation: implications for addiction, Distinguished Scientist Award Plenary Lecture, European Behavioral Pharmacology Society (EBPS), La Rochelle, France, Sept. 6-9, 2013.
  320. Ahrens, A.M., Robinson, T.E. An occasion-setter exerts much greater control over conditioned responding in goal-trackers than in sign-trackers. *Society for Neuroscience Abstracts*, 2013.
  321. Yager, L.M. and Robinson, T.E. A classically conditioned opioid cue is more attractive and desired in rats prone to attribute incentive salience to a food cue. *Society for Neuroscience Abstracts*, 2013.
  322. O'Donnell, E.G., Saunders, B.T., and Robinson, T.E. Dorsomedial striatal control of cue-directed versus goal-directed Pavlovian approach behavior. *Society for Neuroscience Abstracts*, 2013.
  323. Cogan, E.S. & Robinson, T.E. Stress-induced reinstatement of the incentive motivational value of a cocaine cue. *Society for Neuroscience Abstracts*, 2013.
  324. Fitzpatrick, C.J., Robinson, T.E., and Morrow, J.D. Single prolonged stress decreases sign-tracking conditioned responses and attenuates cue-induced reinstatement of cocaine-seeking behavior. *Society for Neuroscience Abstracts*, 2013.
  325. Robinson, T.E. Individual variation in the ability to resist temptation: implications for addiction. Invited talk at a European graduate school symposium, "IN-SENS", Dusseldorf, Germany, May 16, 2014
  326. Robinson, T.E. Individual variation in resisting temptation: implications for addiction. William James Fellow Award Address, Association for Psychological Science, San Francisco, May 23, 2014
  327. Robinson, T.E. Incentive-sensitization and susceptibility to addiction. Invited talk in a symposium on, The Essence of Addiction: Implications for Re-conceptualizing Diagnosis and Developing Targeted Treatments. Association for Psychological Science Annual Meeting, San Francisco, May 24, 2014
  328. Kawa, A.B., Bentzley, B.S., and Robinson, T.E. Individual differences in the motivation for cocaine assessed using a behavioral economics procedure. *Society for Neuroscience Abstracts*, 2014.
  329. Singer, B.F., Austin, C.J., Wright, E.E., Wohl, I., Aragona, B.J., and Robinson, T.E. Differential dopamine signaling in sign-tracker and goal-tracker rats following amphetamine. *Society for Neuroscience Abstracts*, 2014.
  330. Bryan, M.A., Singer, B.F., Aragona, B.J., Robinson, T.E. Rapid cocaine induced sensitization of phasic dopamine transmission in the nucleus accumbens shell. *Society for Neuroscience Abstracts*, 2014.
  331. Yager, L.M., Pitchers, K.K., Flagel, S.B., Robinson, T.E. A classically conditioned opioid cue acquires greater control over motivated behavior and induces greater Fos protein expression in rats prone to attribute incentive salience to a food cue. *Society for Neuroscience Abstracts*, 2014.
  332. Ahrens, A.M., Meyer, P.J., Robinson, T.E., and Aldridge, J.W. Neural encoding of incentive salience in the ventral pallidum of rats during Pavlovian conditioned approach. *Society for Neuroscience Abstracts*, 2014.
  333. Pitchers, K.K., Skrzynski, C.J., Robinson, T.E., and Sarter, M. Taking cocaine versus staying on task: drug cue-evoked competition for attention and individual differences in vulnerability to cue-evoked task shifts. *Society for Neuroscience Abstracts*, 2014.
  334. Gileta, AF, Gopalakrishnan, S, Flagel, SB, Robinson, TE, Palmer, AA. Genome-wide association study of incentive salience in outbred rats. 16th Annual Genes, Brain and Behavior Meeting, May 10-13, Chicago, IL, 2014
  335. Gileta AF, Gopalakrishnan S, Chitre A, Fitzpatrick CJ, Flagel SB, Robinson TE, Palmer AA. Genome-wide association study for the propensity to attribute incentive salience to reward cues in outbred rats. 14th Annual Meeting of the Complex Trait Consortium, Portland, OR, June 8-11, 2015.
  336. Robinson, T.E. Individual variation in resisting temptation: implications for addiction. Neal Miller Lecture, American Psychological Association Annual Meeting, Toronto, Aug. 8, 2015.
  337. Cogan, E.S., Tronson, N.C. & Robinson, T.E. Propranolol interferes with the reconsolidation of a sign-tracking, but not a goal-tracking CR. *Gordon Research Conference on Catecholamines*, Sunday River, Newry, ME, Aug. 9-14, 2015
  338. Singer, B.F., Guptaroy, B., Austin, C.J., Vaughan, R.A., Gnegy, M.E., Robinson, T.E., Aragona, B.J. Individual variability in dopamine transporter regulation of neurotransmission and incentive motivation. *Gordon Research Conference on Catecholamines*, Sunday River, Newry, ME, Aug. 9-14, 2015.
  339. Pitchers, K.K., Wood, T.R., Skrzynski, C.J., Robinson, T.E, Sarter, M. Falling for drug cues versus staying on task. *Society for Neuroscience Abstracts*, 2015.
  340. Jones, J.L., Pitchers, K.K., Robinson, T.E, Sarter, M. Individual variation in the effects of basal forebrain cholinergic lesions to attenuate reinstatement of cocaine-seeking behavior. *Society for Neuroscience Abstracts*, 2015.
  341. Singer, B.F., Guptaroy, B., Austin, C.J., Gnegy, M.E., Robinson, T.E., Aragona, B.J. Individual variability in

- dopamine transporter regulation of neurotransmission and incentive motivation. *Society for Neuroscience Abstracts*, 2015.
342. Kawa, A.B., Bentzley, B.S., Robinson, T.E. Incentive sensitization as a function of increasing experience with self-administered cocaine using an 'Intermittent Access' procedure. *Society for Neuroscience*, 2015.
343. Ahrens, A.M., Robinson, T.E., Aldridge, J.W. Performance of a cue-triggered conditioned response elicits greater neural activity in the ventral pallidum when the cue is attributed with incentive salience. *Society for Neuroscience Abstracts*, 2015.
344. Kucinski, A., Koshy Cherian, A., Valuskova, P., Yegla, B., Parikh, V., Robinson, T., Sarter, M. Prone to addiction as well as to falls: Poor attention in sign-tracking rats extends to complex movement control and is associated with regression of choline transporter capacity. *Society for Neuroscience Abstracts*, 2015.
345. Singer, B.F., Fandanelli, M.M., Kawa, A.B., Schweir, M.B., Carter, C.W., Robinson, T.E., The development of addiction-like behavior does not require DLS-dependent habitual drug-seeking. *Society for Neuroscience Abstracts*, 2016.
346. Kawa, A.B., Valenta, A., Kennedy, R.T., Robinson, T.E. Incentive-sensitization following experience with intermittent cocaine self-administration. Poster presented at the 50th Annual *Winter Conference on Brain Research*, Big Sky, Montana, Jan., 2017.
347. Robinson, T.E. The temporal pattern of cocaine self-administration is critical for incentive-sensitization. Invited talk in a symposium on, "How Fast and How Often: The Temporal Pattern of Drug Use is Decisive in Addiction", at the 79th Annual Meeting of the College on Problems of Drug Dependence (CPDD), Montreal, Canada, June 20, 2017.
348. Robinson, T.E. Animal models of addiction: implications for incentive-sensitization theory. Invited talk at the *Gordon Research Conference on the Neurobiology of Drug Addiction*, The Hong Kong University of Science and Technology, Hong Kong, China, July 16-21, 2017.
349. Robinson, T.E. Animal models of addiction. Invited talk, *Cayman Chemical Conference on Opioids and Stimulants: Use and Abuse*, University of Michigan, Ann Arbor, MI, Sept. 7, 2017.
350. Robinson, T.E. Individual variation in resisting temptation: implications for impulse control disorders. Invited plenary lecture (Mars Lecture), *Society for the Study of Ingestive Behavior Annual Meeting*, Bonita Springs, FL, July 20, 2018.
351. King, C.P., Chitre, A.S., Poleskaya, O., Flagel, S.B., Robinson, T.E., Solberg-Woods, L.C., Palmer, A.A., Meyer, P.J., Genome-Wide Association Study in 3,228 Outbred Heterogeneous Stock Rats Identifies Multiple Loci for a Pavlovian Conditioned Approach Task. Poster presented (on-line) at the Annual meeting of the *International Behavioural and Neural Genetics Society*, May 11-16, 2021.
352. Robinson, T.E. Individual variation in resisting temptation. The Neuroscience School for Advanced Studies Course on "*Arousal, Attention and Motivation*", Director, Gary Aston-Jones, Venice, Italy, Sept. 10, 2022.
353. Apurva S. Chitre<sup>1</sup>, Thiago Missfeldt Sanches<sup>1</sup>, Gavrila Ang<sup>1</sup>, Hannah Bimschleger<sup>1</sup>, Denghui Chen<sup>1</sup>, Ayteria D. Crow<sup>2</sup>, Eric Dereschewitz<sup>2</sup>, Maya Eid<sup>3</sup>, Anthony M. George<sup>4</sup>, Aidan P. Horvath<sup>5</sup>, Keita Ishiwari<sup>6</sup>, Benjamin Johnson<sup>1</sup>, Elaine Keung<sup>1</sup>, Christopher King<sup>7</sup>, Connor D. Martin<sup>8</sup>, Angel Garcia Martinez<sup>9</sup>, Daniel Munro<sup>1</sup>, Alesa H. Netzley<sup>5</sup>, Khai-Minh Nguyen<sup>1</sup>, Beverly Peng<sup>1</sup>, Celine L. St. Pierre<sup>1</sup>, Dominika Pullmann<sup>10</sup>, Jerry B. Richards<sup>6</sup>, Analyse T. Roberts<sup>2</sup>, Deborah Sevigny-Resetco<sup>11</sup>, Laura Soverchia<sup>12</sup>, Massimo Ubaldi<sup>12</sup>, Yizhi Wang<sup>1</sup>, Tengfei Wang<sup>9</sup>, Jicai Jiang<sup>13</sup>, Nazzareno Cannella<sup>12</sup>, Roberto Ciccocioppo<sup>12</sup>, Paul J. Meyer<sup>7</sup>, Brittany N. Kuhn<sup>2</sup>, Peter W. Kalivas<sup>2</sup>, Suzanne H. Mitchell<sup>14,15</sup>, Thomas Jhou<sup>16</sup>, Terry E. Robinson<sup>5</sup>, Shelly B. Flagel<sup>17</sup>, Hao Chen<sup>9</sup>, David Dietz<sup>8</sup>, Oksana Poleskaya<sup>1</sup>, Abraham A. Palmer<sup>1,18</sup>. Genome-wide association study (GWAS) of locomotor activity in more than 8,000 outbred HS rats identifies 25 loci. *Society for Neuroscience Abstracts*, 2025.
354. Apurva S. Chitre<sup>1</sup>, Thiago Missfeldt Sanches<sup>1</sup>, Gavrila Ang<sup>1</sup>, Hannah Bimschleger<sup>1</sup>, Denghui Chen<sup>1</sup>, Ayteria D. Crow<sup>2</sup>, Eric Dereschewitz<sup>2</sup>, Maya Eid<sup>3</sup>, Anthony M. George<sup>4</sup>, Aidan P. Horvath<sup>5</sup>, Keita Ishiwari<sup>6</sup>, Benjamin Johnson<sup>1</sup>, Elaine Keung<sup>1</sup>, Christopher King<sup>7</sup>, Connor D. Martin<sup>8</sup>, Angel Garcia Martinez<sup>9</sup>, Daniel Munro<sup>1</sup>, Alesa H. Netzley<sup>5</sup>, Khai-Minh Nguyen<sup>1</sup>, Beverly Peng<sup>1</sup>, Celine L. St. Pierre<sup>1</sup>, Dominika Pullmann<sup>10</sup>, Jerry B. Richards<sup>6</sup>, Analyse T. Roberts<sup>2</sup>, Deborah Sevigny-Resetco<sup>11</sup>, Laura Soverchia<sup>12</sup>, Massimo Ubaldi<sup>12</sup>, Yizhi Wang<sup>1</sup>, Tengfei Wang<sup>9</sup>, Jicai Jiang<sup>13</sup>, Nazzareno Cannella<sup>12</sup>, Roberto Ciccocioppo<sup>12</sup>, Paul J. Meyer<sup>7</sup>, Brittany N. Kuhn<sup>2</sup>, Peter W. Kalivas<sup>2</sup>, Suzanne H. Mitchell<sup>14,15</sup>, Thomas Jhou<sup>16</sup>, Terry E. Robinson<sup>5</sup>, Shelly B. Flagel<sup>17</sup>, Hao Chen<sup>9</sup>, David Dietz<sup>8</sup>, Oksana Poleskaya<sup>1</sup>, Abraham A. Palmer. Genome-wide association study of locomotor activity in 7,695 outbred Heterogeneous Stock rats identifies 42 loci. *Complex Trait Community Annual Meeting*, Barcelona, Spain, Oct. 21-24, 2025.
355. Brittany Leger, Apurva Chitre, Thiago Sanches, Gavrila Ang, Denghui Chen, Keita Ishiwari, Benjamin Johnson, Elaine Keung, Christopher King, Daniel Munro, Celine St. Pierre, Nazzareno Cannella, Paul Meyer, Brittany Kuhn, Peter Kalivas, Suzanne Mitchell, Thomas Jhou, Terry Robinson, Shelly Flagel, Hao Chen, David Dietz, Oksana Poleskaya, Danielle Dick, The Externalizing Consortium, Abraham Palmer. Genetic analysis links rodent locomotor

- activity to human externalizing behavior. Abstracts of the 64<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology, *Neuropsychopharmacology*, 2026, 51, 237-238.
356. Robinson, T.E. Addiction: An incentive-sensitization view. International Psychoanalytic Dialogues Meeting, Rome, Feb. 2026

#### **D. JOURNAL ARTICLES AND BOOK CHAPTERS**

##### **Notes:**

- Book chapters are indicated by an asterisk\*.
- See the Appendix for analyses of citations.

##### **1974**

- (1) Robinson, T.E., and Whishaw, I.Q. The effects of posterior hypothalamic lesions on voluntary behavior and hippocampal electroencephalograms in the rat. *Journal of Comparative and Physiological Psychology* [now *Behavioral Neuroscience*], 1974, 86, 768-786.
- (2) Whishaw, I.Q., and Robinson, T.E. Comparison of anodal and cathodal lesions and metal deposition in eliciting postoperative locomotion in the rat. *Physiology and Behavior*, 1974, 13, 539-551.
- (3) Robinson, T.E., Whishaw, I.Q., and Whishart, T.B. The effects of posterior hypothalamic lesions on swimming movements in different water temperatures by the rat. *Canadian Journal of Psychology*, 1974, 28, 102-113.

##### **1976**

- (4) Whishaw, I.Q., Robinson, T.E., and Schallert, T. Intraventricular anti-cholinergics do not block cholinergic sensitive hippocampal RSA or neocortical desynchronization in the rabbit or rat. *Pharmacology, Biochemistry and Behavior*, 1976, 5, 275-283.
- (5) Whishaw, I.Q., Bland, B.H., Robinson, T.E., and Vanderwolf, C.H. Neuromuscular blockade: the effects on two hippocampal RSA (theta) systems and neocortical desynchronization. *Brain Research Bulletin*, 1976, 1, 573-581.

##### **1977**

- (6) Robinson, T.E., Kramis, R.C., and Vanderwolf, C.H. Two types of cerebral activation during active sleep: relations to behavior. *Brain Research*, 1977, 124, 544-549.
- (7) Robinson, T.E., Vanderwolf, C.H., and Pappas, B.A. Are the dorsal noradrenergic bundle projections from the locus coeruleus important for neocortical or hippocampal activation? *Brain Research*, 1977, 138, 75-98.

##### **1978**

- (8) Robinson, T.E. Electrical stimulation of the brain stem in freely moving rats. I. Effects on behavior. *Physiology and Behavior*, 1978, 21, 223-231.
- (9) Robinson, T.E., and Vanderwolf, C.H. Electrical stimulation of the brain stem in freely moving rats. II. Effects on neocortical and hippocampal electrical activity and relations to behavior. *Experimental Neurology*, 1978, 61, 485-515.
- (10) Whishaw, I.Q., Robinson, T.E., Schallert, T., DeRyck, M., and Ramirez, V.D. Electrical activity of the hippocampus and neocortex in rats depleted of brain dopamine and norepinephrine: relation to behavior and effects of atropine. *Experimental Neurology*, 1978, 62, 748-767.
- (11)\* Vanderwolf, C.H., Kramis, R.C., and Robinson, T.E. Hippocampal electrical activity during waking behavior and sleep: Analyses using centrally acting drugs. *Ciba Foundation Symposium 58: Functions of the Septo-Hippocampal System*, Amsterdam: Elsevier, 1978, pp. 199-221.

##### **1980**

- (12) Vanderwolf, C.H., Robinson, T.E., and Pappas, B.A. Monoamine replacement after atropine: catecholaminergic agonists restore motor activity but only phenylethylamine restores atropine-resistant neocortical low voltage fast activity. *Brain Research*, 1980, 202, 65-77.

- (13) Robinson, T.E. Hippocampal rhythmic slow activity (RSA; theta): a critical analysis of selected studies and discussion of possible species-differences. *Brain Research Reviews*, 1980, 2, 69-101.
- (14) Robinson, T.E., Becker, J.B., and Ramirez, V.D. Sex differences in amphetamine-elicited rotational behavior and the lateralization of striatal dopamine in rats. *Brain Research Bulletin*, 1980, 5, 539-545.
- (15) Robinson, T.E., and Green, D.J. Effects of hemicholinium-3 and choline on hippocampal electrical activity during immobility vs. movement. *Electroencephalography and Clinical Neurophysiology*, 1980, 50, 314-323.
- 1981**
- (16) Robinson, T.E., Camp, D.M., and Becker, J.B. Gonadectomy attenuates turning behavior produced by electrical stimulation of the nigro-striatal dopamine system in female but not male rats. *Neuroscience Letters*, 1981, 23, 203-208.
- (17) Robinson, T.E., and Becker, J.B. Variation in lateralization: selected samples do not a population make. *Behavioral and Brain Sciences*, 1981, 4, 34-35 (commentary).
- (18) Vanderwolf, C.H., and Robinson, T.E. Reticulo-cortical activity and behavior: A critique of the arousal theory and a new synthesis. *Behavioral and Brain Sciences*, 1981, 4, 459-476.
- (19) Vanderwolf, C.H. and Robinson, T.E. Brain-behavioral studies: the importance of staying close to the data. *Behavioral and Brain Sciences*, 1981, 4, 497-514 (response to Peer Commentaries).
- 1982**
- (20) Becker, J.B., Robinson, T.E., and Lorenz, K.A. Sex differences and estrous cycle variations in amphetamine-elicited rotational behavior. *European Journal of Pharmacology*, 1982, 80, 65-72.
- (21) Robinson, T.E., and Therrien, B.A. Does hippocampal theta tell us anything about the neuropsychology of anxiety? *Behavioral and Brain Sciences*, 1982, 5, 500-502 (invited commentary).
- (22) Robinson, T.E., Camp, D.M., Jacknow, D.S., and Becker, J.B. Sex differences and estrous cycle dependent variation in rotational behavior elicited by electrical stimulation of the mesostriatal dopamine system. *Behavioral Brain Research*, 1982, 6, 273-287.
- (23) Robinson, T.E., Becker, J.B., and Presty, S.K. Long-term facilitation of amphetamine-induced rotational behavior and striatal dopamine release produced by a single exposure to amphetamine: Sex differences. *Brain Research*, 1982, 253, 231-241.
- (24) Robinson, T.E., and Becker, J.B. Behavioral sensitization is accompanied by an enhancement in amphetamine-stimulated dopamine release from striatal tissue *in vitro*. *European Journal of Pharmacology*, 1982, 85, 253-254.
- 1983**
- (25) Robinson, T.E., and Becker, J.B. The rotational behavior model: asymmetry in the effects of unilateral 6-OHDA lesions of the substantia nigra in rats. *Brain Research*, 1983, 264, 127-131.
- (26)\* Robinson, T.E., Becker, J. B., and Camp, D.M. Sex differences in behavioral and brain asymmetries. In M. Myslobodsky (Ed.), *Hemisyndromes: Psychobiology, Neurology, Psychiatry*. New York: Academic Press, 1983, pp. 91-128.
- 1984**
- (27) Camp, D.M., Robinson, T.E., and Becker, J.B. Sex differences in the effects of early experience on the development of behavioral and brain asymmetries. *Physiology and Behavior*, 1984, 33, 433-439.
- (28) Becker, J.B., Castañeda, E., Robinson, T.E., and Beer, M. A simple *in vitro* technique to measure the release of endogenous dopamine and dihydroxyphenylacetic acid from striatal tissue using high performance liquid chromatography with electrochemical detection. *Journal of Neuroscience Methods*, 1984, 11, 19-28.
- (29) Becker, J.B., Beer, M.E., and Robinson, T.E. Striatal dopamine release stimulated by amphetamine or potassium: influence of ovarian hormones and the light/dark cycle. *Brain Research*, 1984, 311, 157-160.

- (30) Lin-Chu, G., Robinson, T.E., and Becker, J.B. Rotational behavior in animals with 6-OHDA lesions. *Acta Psychologica Sinica*, 1984, 4, 416-421 (In Chinese).
- (31) Robinson, T.E. Behavioral sensitization: characterization of enduring changes in rotational behavior produced by intermittent injections of amphetamine in male and female rats. *Psychopharmacology*, 1984, 84, 466-475.
- 1985**
- (32) Castañeda, E., Robinson, T.E., and Becker, J.B. Involvement of nigrostriatal dopamine neurons in the contraversive rotational behavior evoked by electrical stimulation of the lateral hypothalamus. *Brain Research*, 1985, 327, 143-151.
- (33) Lin-Chu, G., Robinson, T.E., and Becker, J.B. The effects of cocaine on rotational behavior in rats with unilateral lesions of the substantia nigra. *Acta Psychologica Sinica*, 1985, 1, 101-107 (In Chinese).
- (34) Lin-Chu, G., Robinson, T.E., and Becker, J.B. Sensitization of rotational behavior produced by a single exposure to cocaine. *Pharmacology, Biochemistry and Behavior*, 1985, 22, 901-903.
- (35) Robinson, T.E., Becker, J.B., Moore, C.J., Castañeda, E., and Mittleman, G. Enduring enhancement in frontal cortex dopamine utilization in an animal model of amphetamine psychosis. *Brain Research*, 1985, 343, 374-377.
- (36) Robinson, T.E., Angus, A.L., and Becker, J.B. Sensitization to stress: the enduring effects of prior stress on amphetamine-induced rotational behavior. *Life Sciences*, 1985, 37, 1039-1042.
- (37)\* Robinson, T.E., Becker, J.B., Camp, D.M., and Mansour, A. Variation in the pattern of behavioral and brain asymmetries due to sex differences. In S.D. Glick (Ed.), *Cerebral Lateralization in Non-Human Species*. [Part of "Behavioral Biology: An International Series", J.L. McGaugh and W.T. Greenough (Series Editors)]. New York: Academic Press, 1985, pp. 185-231.
- 1986**
- (38) Mittleman, G., Castañeda, E., Robinson, T.E., and Valenstein, E.S. The propensity for non-regulatory ingestive behavior is related to differences in dopamine systems: behavioral and biochemical evidence. *Behavioral Neuroscience*, 1986, 100, 213-220.
- (39) Robinson, T.E. and Becker, J.B. Enduring changes in brain and behavior produced by chronic amphetamine administration: a review and evaluation of animal models of amphetamine psychosis. *Brain Research Reviews*, 1986, 11, 157-198.
- (40) Wilcox, R.A., Robinson, T.E. and Becker, J.B. Enduring enhancement in amphetamine-stimulated striatal dopamine release *in vitro* produced by prior exposure to amphetamine or stress *in vivo*. *European Journal of Pharmacology*, 1986, 124, 375-376.
- (41) Camp, D.M., Becker, J.B. and Robinson, T.E. Sex differences in the effects of gonadectomy on amphetamine-induced rotational behavior in rats. *Behavioral and Neural Biology*, 1986, 46, 491-495.
- 1987**
- (42) Robinson, T.E., Becker, J.B., Young, E., Akil, H. and Castañeda, E. The effects of footshock stress on regional brain dopamine metabolism and pituitary  $\beta$ -endorphin release in rats sensitized to amphetamine. *Neuropharmacology*, 1987, 26, 679-691.
- (43) Robinson, T.E. and Camp, D.M. Long-lasting effects of escalating doses of *d*-amphetamine on brain monoamines, amphetamine-induced stereotyped behavior and spontaneous nocturnal locomotion. *Pharmacology, Biochemistry and Behavior*, 1987, 26, 821-827.
- 1988**
- (44) Robinson, T.E. and Whishaw, I.Q. Normalization of extracellular dopamine in striatum following recovery from a partial unilateral 6-OHDA lesion of the substantia nigra: a microdialysis study in freely moving rats. *Brain Research*, 1988, 450, 209-224.

- (45) Camp, D.M. and Robinson, T.E. Susceptibility to sensitization. I. Sex differences in the enduring effects of chronic *d*-amphetamine treatment on locomotion, stereotyped behavior and brain monoamines. *Behavioral Brain Research*, 1988, 30, 55-68.
- (46) Camp, D.M. and Robinson, T.E. Susceptibility to sensitization. II. The influence of gonadal hormones on enduring changes in brain monoamines and behavior produced by the repeated administration of amphetamine or restraint stress. *Behavioral Brain Research*, 1988, 30, 69-88.
- (47) Becker, J.B., Adams, F., and Robinson, T.E. Intraventricular microdialysis: a new method for determining monoamine metabolite concentrations in the cerebrospinal fluid of freely moving rats. *Journal of Neuroscience Methods*, 1988, 24, 259-269.
- (48) Castañeda, E., Becker, J.B., and Robinson, T.E. The long-term effects of repeated intermittent amphetamine treatment *in vivo* on amphetamine, potassium and electrical stimulation-induced dopamine release from striatal tissue *in vitro*. *Life Sciences*, 1988, 42, 2447-2456.
- (49) Robinson, T.E., Jurson, P., Bennett, J. and Bentgen, K. Persistent sensitization of dopamine release in ventral striatum (nucleus accumbens) produced by prior experience with (+)-amphetamine: a microdialysis study in freely moving rats. *Brain Research*, 1988, 462, 211-222.
- (50)\* Robinson, T.E. Stimulant drugs and stress: factors influencing individual differences in the susceptibility to sensitization. In P.W. Kalivas and C. Barnes (Eds.), *Sensitization of the Nervous System*, Caldwell, NJ, Telford Press, 1988, pp. 145-173.
- 1989**
- (51) Berridge, K.C., Venier, I.L. and Robinson, T.E. Taste reactivity analysis of 6-hydroxydopamine-induced aphagia: implications for arousal and anhedonia hypotheses of dopamine function. *Behavioral Neuroscience*, 1989, 103, 36-45.
- 1990**
- (52) Castañeda, E., Wishaw, I.Q., Lermer, L. and Robinson, T.E. Dopamine depletion in neonatal rats: effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. *Brain Research*, 1990, 508, 30-39.
- (53) Becker, J.B., Robinson, T.E., Barton, P., Sintov, A., Siden, R. and Levy, R.J. Sustained behavioral recovery from unilateral nigrostriatal damage produced by the controlled release of dopamine from a silicone polymer pellet placed into the denervated striatum. *Brain Research*, 1990, 508, 60-64.
- (54) Gordon, K., Statman, D., Johnston, M.V., Robinson, T.E., Becker, J.B. and Silverstein, F.S. Transient hypoxia alters striatal catecholamine metabolism in immature brain: an *in vivo* microdialysis study. *Journal of Neurochemistry*, 1990, 54, 605-611.
- (55) Robinson, T.E., Yew, J., Paulson, P.E. and Camp, D.M. The long-term effects of neurotoxic doses of methamphetamine on the extracellular concentration of dopamine measured with microdialysis in striatum. *Neuroscience Letters*, 1990, 110, 193-198.
- (56) Robinson, T.E. and Camp, D.M. Does amphetamine *preferentially* increase the extracellular concentration of dopamine in the mesolimbic system of freely moving rats? *Neuropsychopharmacology*, 1990, 3, 163-173.
- (57) Castañeda, E., Wishaw, I.Q. and Robinson, T.E. Changes in striatal dopamine neurotransmission assessed with microdialysis following recovery from a bilateral 6-OHDA lesion: variation as a function of lesion size. *Journal of Neuroscience*, 1990, 10, 1847-1854.
- (58) Robinson, T.E., Castañeda, E. and Wishaw, I.Q. Compensatory changes in striatal dopamine neurons following recovery from injury induced by 6-OHDA or methamphetamine: a review of evidence from microdialysis studies. *Canadian Journal of Psychology*, 1990, 44, 253-275.

- (59) Mansour, A., Meador-Woodruff, J.H., Camp, D.M., Robinson, T.E., Bunzow, J., Van Tol, H., Civelli, O., Akil, H. and Watson, S.J. The effects of nigrostriatal 6-hydroxydopamine lesions on dopamine D2 receptor mRNA and opioid systems. *Progress in Clinical and Biological Research*, 1990, 328, 227-230.
- (59a) Castaneda, E., Whishaw, I.Q. Lerner, L. and Robinson, T.E. Dopamine depletion in neonatal rats: effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. *Brain Research*, 1990, 508, 30-39.
- 1991**
- (60) Paulson, P.E., Camp, D.M. and Robinson, T.E. The time course of transient behavioral depression and persistent behavioral sensitization in relation to regional brain monoamine concentrations during amphetamine withdrawal in rats. *Psychopharmacology*, 1991, 103, 480-492.
- (61) Paulson, P.E. and Robinson, T.E. Sensitization to systemic amphetamine produces an enhanced locomotor response to a subsequent intra-accumbens amphetamine challenge in rats. *Psychopharmacology*, 1991, 104, 140-141.
- (62) Robinson, T.E. Controls for lesions of the nigrostriatal dopamine system (Technical comment). *Science*, 1991, 253, 332.
- (63) Robinson, T.E. and Camp, D.M. On the preferential release of mesolimbic dopamine by amphetamine: a reply to Di Chiara (Letter). *Neuropsychopharmacology*, 1991, 5, 245-247.
- (64)\* Robinson, T.E. The neurobiology of amphetamine psychosis: evidence from studies with an animal model. In T. Nakazawa (Ed.), *Taniguchi Symposia on Brain Sciences, Vol. 14, Biological Basis of Schizophrenic Disorders*, Japan Scientific Societies Press, Tokyo, 1991, pp. 185-201.
- (65)\* Robinson, T.E. and Camp, D.M. The feasibility of repeated microdialysis for within-subjects design experiments: studies on the mesostriatal dopamine system. In T. E. Robinson and J. B. Justice, Jr. (Eds.), *Techniques in the Behavioral and Neural Sciences, Vol. 7, Microdialysis in the Neurosciences*. Elsevier, Amsterdam, 1991, pp. 189-234.
- (66) Robinson, T.E. and Camp, D.M. The effects of four days of continuous striatal microdialysis on indices of dopamine and serotonin neurotransmission in rats. *Journal of Neuroscience Methods*, 1991, 40, 211-222.
- (67)\* Robinson, T.E. and Camp, D.M. The feasibility of repeated intracerebral microdialysis. In H. Rollema, B. Westerink and W.J. Driifhout (Eds.), *Monitoring Molecules in Neuroscience, Proceedings of the 5<sup>th</sup> International Conference on In Vivo Methods*, Univ. Ctr Pharmacy, Groningen, 1991, pp. 51-55.
- 1992**
- (68) Castañeda, E., Whishaw, I.Q. and Robinson, T.E. Recovery from lateralized neocortical damage: dissociation between amphetamine-induced asymmetry in behavior and striatal dopamine neurotransmission in vivo. *Brain Research*, 1992, 571, 248-259.
- (69) Camp, D.M. and Robinson, T.E. On the use of multiple probe insertions at the same site for repeated intracerebral microdialysis experiments in the nigrostriatal dopamine system of rats. *Journal of Neurochemistry*, 1992, 58, 1706-1715.
- (70) McFarlane, D.K., Martonyi, B. and Robinson, T.E. An inexpensive automated system for the measurement of rotational behavior in small animals. *Behavior Research Methods, Instruments, & Computers*, 1992, 24, 414-419.
- 1993**
- (71) Meisel, R.L., Camp, D.M. and Robinson, T.E. A microdialysis study of ventral striatal dopamine during sexual behavior in female Syrian hamsters. *Behavioral Brain Research*, 1993, 55, 151-157.
- (72) Crippens, D., Camp, D.M. and Robinson, T.E. Basal extracellular dopamine in the nucleus accumbens during amphetamine withdrawal: a 'no net flux' microdialysis study. *Neuroscience Letters*, 1993, 164, 145-148.

- (73)\* Robinson, T.E. Persistent sensitizing effects of drugs on brain dopamine systems and behavior: implications for addiction and relapse. In S. G. Korenman and J. D. Barchas (Eds.), *Biological Basis of Substance Abuse*, Oxford University Press, New York, 1993, pp. 373-402.
- (74) Robinson, T.E., Castañeda, E. and Whishaw, I.Q. Effects of cortical serotonin depletion induced by 3,4-methylenedioxymethamphetamine (MDMA) on behavior, before and after additional cholinergic blockade. *Neuropsychopharmacology*, 1993, 8, 77-85.
- (75) Robinson, T.E. and Berridge, K.C. The neural basis of drug craving: an incentive-sensitization theory of addiction. *Brain Research Reviews*, 1993, 18, 247-291.
- 1994**
- (76) Robinson, T.E., Noordhoorn, M., Chan, E.M., Mocsary, Z., Camp, D.M. and Whishaw, I.Q. Relationship between asymmetries in striatal dopamine release and the direction of amphetamine-induced rotation during the first week following a unilateral 6-OHDA lesion of the substantia nigra. *Synapse*, 1994, 17, 16-25.
- (77) Robinson, T.E., Mocsary, Z., Camp, D.M. and Whishaw, I.Q. Time course of recovery of extracellular dopamine following partial damage to the nigrostriatal dopamine system. *Journal of Neuroscience*, 1994, 14, 2687-2696.
- (78) Paulson, P.E. and Robinson, T.E. Relationship between circadian changes in spontaneous motor activity and dorsal versus ventral striatal dopamine neurotransmission assessed with on-line microdialysis. *Behavioral Neuroscience*, 1994, 108, 624-635.
- (79) Crippens, D. and Robinson, T.E. Withdrawal from morphine or amphetamine: different effects on ventral striatal dopamine studied with microdialysis. *Brain Research*, 1994, 650, 56-62.
- (80) Ben-Yoseph, O., Kingsley, P.B., Camp, D.M., Robinson, T.E. and Ross, B.D. Measurement of pentose phosphate pathway activity by microdialysis in vivo and in a single incubation in vitro, *Neuroscience Protocols*, 1994, 60/2, 1-13.
- (81) Camp, D.M., Browman, K.E. and Robinson, T.E. The effects of methamphetamine and cocaine on motor activity and extracellular dopamine in the ventral striatum of Lewis versus Fischer 344 rats. *Brain Research*, 1994, 668, 180-193.
- (82)\* Badiani, A. and Robinson, T.E. Enhancement of amphetamine sensitization in a novel environment: the role of adrenal hormones. In S. Seredenin, V.G. Longo and G. Gaviraghi, (Eds.), *Biological Basis of Individual Sensitivity to Psychotropic Drugs*, Graffham Press, Edinburgh, 1994, pp. 231-241.
- 1995**
- (83) Badiani, A., Anagnostaras, S. and Robinson, T.E. The development of sensitization to the psychomotor stimulant effects of amphetamine is enhanced in a novel environment. *Psychopharmacology*, 1995, 117, 443-452.
- (84) Paulson, P.E. and Robinson, T.E. Amphetamine-induced time-dependent sensitization of dopamine neurotransmission in the dorsal and ventral striatum: a microdialysis study in behaving rats. *Synapse*, 1995, 19, 56-65.
- (85) Ben-Yoseph, O., Camp, D.M., Robinson, T.E. and Ross, B.D. Dynamic measurements of cerebral pentose phosphate pathway activity in vivo using (1,6-<sup>13</sup>C<sub>2</sub>, 6, 6-<sup>2</sup>H<sub>2</sub>)glucose and microdialysis. *Journal of Neurochemistry*, 1995, 64, 1336-1342.
- (86) Berridge, K.C. and Robinson, T.E. The mind of an addicted brain: neural sensitization of wanting versus liking. *Current Directions in Psychological Science*, 1995, 4, 71-76. (reprinted in JT Cacioppo, GG. Berntson, R Adolphs, CS Carter, RJ Davidson, MK McClintock, BS McEwen, MJ Meaney, DL Schacter, EM Sternberg, S Suomi and SE Taylor (Eds.), *Foundations in Social Neuroscience*, MIT Press, Cambridge, MA.

pp. 565-772, 2002.

- (87) Badiani, A., Morano, I., Akil, H. and Robinson, T.E. Circulating adrenal hormones are not necessary for the development of sensitization to the psychomotor activating effects of amphetamine. *Brain Research*, 1995, 673, 13-24.
- (88) Badiani, A., Browman, K.E. and Robinson, T.E. Influence of novel versus home environments on sensitization to the psychomotor stimulant effects of cocaine and amphetamine. *Brain Research*, 1995, 674, 291-298.
- (89)\* Badiani, A. and Robinson, T.E. The role of gonadal and adrenal hormones in the development of sensitization to amphetamine. In W.A. Hunt and S. Zakhari (Eds.), *Stress, Gender and Alcohol-Seeking Behavior*, NIAAA Research Monograph Vol. 29, 1995, pp. 259-276.

**1996**

- (90) Paulson, P.E. and Robinson, T.E. Regional differences in the effects of amphetamine withdrawal on dopamine dynamics in the striatum: analysis of circadian patterns using automated on-line microdialysis. *Neuropsychopharmacology*, 1996, 14, 325-337.
- (91) Browman, K.E., Badiani, A. and Robinson, T.E. Fimbria-fornix lesions do not block sensitization to the psychomotor activating effects of amphetamine. *Pharmacology, Biochemistry & Behavior*, 1996, 53, 899-902.
- (92) Crombag, H., Badiani, A. and Robinson, T.E. Signalled versus unsignalled intravenous amphetamine: large differences in the acute psychomotor response and sensitization. *Brain Research*, 1996, 722, 227-231.
- (93) Anagnostaras, S. and Robinson, T.E. Sensitization to the psychomotor stimulant effects of amphetamine: modulation by associative learning. *Behavioral Neuroscience*, 1996, 110, 1397-1414.

**1997**

- (94) Berridge, K.C. and Robinson, T.E. Control versus causation of addiction. *Behavioral and Brain Sciences*, 1997, 19, 576. [Commentary on G.M. Heyman, "Resolving the contradictions of addiction"].
- (95) Robinson, T.E. and Berridge, K.C. The pursuit of value: sensitization or tolerance. *Behavioral and Brain Sciences*, 1997, 19, 594. [*Ibid*].
- (96) Robinson, T.E. and Paulson, P.E. Response to a letter by T.L. Lee, E.H. Ellinwood, Jr. & G.R. King, *Neuropsychopharmacology*, 1997, 16, 313-314.
- (97)\* Robinson, T.E. and Badiani, A. Drug-induced adaptations in catecholamine systems: on the inevitability of sensitization. In D. Goldstein, G. Eisenhofer & R. McCarty, (Eds.), *Catecholamines: Bridging Basic Science with Clinical Medicine. Advances in Pharmacology, Vol 42*, Academic Press, New York, 1997, 987-990.
- (98) Robinson, T.E. and Kolb, B. Persistent structural modifications in nucleus accumbens and prefrontal cortex neurons produced by prior experience with amphetamine. *Journal of Neuroscience*, 1997, 17, 8491-8497.
- (99) Camp, D.M., DeJonghe, D.K. and Robinson, T.E. Time-dependent effects of repeated amphetamine treatment on norepinephrine in the hypothalamus and hippocampus assessed with in vivo microdialysis. *Neuropsychopharmacology*, 1997, 17, 130-140.
- (100) Badiani, A., Camp, D.M. and Robinson, T.E. Enduring enhancement of amphetamine sensitization by drug-associated environmental stimuli. *Journal of Pharmacology and Experimental Therapeutics*, 1997, 282, 787-794.
- (101) Frey, K., Kilbourn, M. and Robinson, T.E. Reduced striatal vesicular monoamine transporters after neurotoxic but not after behaviorally-sensitizing regimens of methamphetamine. *European Journal of Pharmacology*, 1997, 334, 273-279.

**1998**

- (102) Browman, K.E., Badiani, A. and Robinson, T.E. The influence of environment on the induction of sensitization to the psychomotor activating effects of intravenous cocaine in rats is dose-dependent. *Psychopharmacology*, 1998, *137*, 90-98.
- (103) Robinson, T.E., Browman, K.E., Crombag, H.S. and Badiani, A. Modulation of the induction or expression of psychostimulant sensitization by the circumstances surrounding drug administration. *Neuroscience and Biobehavioral Reviews*, 1998, *22*, 347-354.
- (104) Berridge, K.C. and Robinson, T.E. What is the role of dopamine in reward: hedonic impact, reward learning or incentive salience. *Brain Research Reviews*, 1998, *28*, 308-367.
- (105) Ostrander, M.M., Hartman, J., Badiani, A., Robinson, T.E. and Gnegy, M.E. The effect of environment on the changes in calmodulin in rat brain produced by repeated amphetamine treatment. *Brain Research*, 1998, *797*, 339-341.
- (106) Browman, K.E., Badiani, A. and Robinson, T.E. Modulatory effect of environmental stimuli on the susceptibility to amphetamine sensitization: a dose-effect study in the rat. *Journal of Pharmacology and Experimental Therapeutics*, 1998, *287*, 1007-1014.
- (107) Browman, K.E., Kantor, L., Richardson, S., Badiani, A., Robinson, T.E. and Gnegy, M.E. Injection of protein kinase C inhibitor Ro31-8220 into the nucleus accumbens attenuates the acute response to amphetamine: tissue and behavioral studies. *Brain Research*, 1998, *814*, 112-119.
- (108) Badiani, A., Oates, M., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-induced behavior, dopamine release and c-fos mRNA expression: modulation by environmental novelty. *Journal of Neuroscience*, 1998, *18*, 10579-10593.
- 1999**
- (109) Fraioli, S., Crombag, H.S., Badiani, A. and Robinson, T.E. Susceptibility to amphetamine-induced locomotor sensitization is modulated by environmental stimuli. *Neuropsychopharmacology*, 1999, *20*, 533-541.
- (110) Crombag, H., Mueller, H., Browman, K.E., Badiani, A. and Robinson, T.E. A comparison of two behavioral measures of psychomotor activation following intravenous amphetamine or cocaine: dose- and sensitization-dependent changes. *Behavioral Pharmacology*, 1999, *10*, 205-213.
- (111) Robinson, T.E. and Kolb, B. Alterations in the morphology of dendrites and dendritic spines in the nucleus accumbens and prefrontal cortex following repeated treatment with amphetamine or cocaine. *European Journal of Neuroscience*, 1999, *11*, 1598-1604.
- (112) Robinson, T.E. and Kolb, B. Morphine alters the structure of neurons in the nucleus accumbens and neocortex of rats. *Synapse*, 1999, *33*, 160-162.
- (113) Badiani, A., Oates, M., Day, H.E.W., Watson, S.J., Akil, H. and Robinson, T.E. Environmental modulation of amphetamine-induced c-fos expression in D1 versus D2 striatal neurons. *Behavioural Brain Research*, 1999, *103*, 203-209.
- 2000**
- (114) Badiani, A., Oates, M., Fraioli, S., Browman, K.E., Ostrander, M.M., Xue, C-J., Wolf, M.E. and Robinson, T.E. Environmental modulation of the response to amphetamine and novelty: dissociation between changes in behavior and changes in dopamine and glutamate overflow in the striatal complex. *Psychopharmacology*, 2000, *151*, 166-174.
- (115) Badiani, A., Oates, M. and Robinson, T.E. Modulation of morphine sensitization in the rat by contextual stimuli. *Psychopharmacology*, 2000, *151*, 273-282.
- (116) Robinson, T.E. and Berridge, K.C. The psychology and neurobiology of addiction: an incentive-sensitization view. *Addiction*, 2000, *95* (Suppl. 2), S91-S117.

(117)\* Robinson, T.E. The long-term behavioral and neurobiological consequences of treatment with psychomotor stimulant drugs: implications for psychopathology. In M. Myslobodsky and I. Weiner (Eds.), *Contemporary Issues in Modeling Psychopathology*, Kluwer Academic Publishers, Norwell, MA, 2000, pp. 19-28.

(118) Crombag, H., Badiani, A., Maren, S. and Robinson, T.E. The role of contextual versus discrete cues in promoting the induction of psychomotor sensitization to intravenous amphetamine. *Behavioural Brain Research*, 2000, *116*, 1-22.

#### 2001

(119) Robinson, T.E., Gorny, G., Mitton, E. and Kolb, B. Cocaine self-administration alters the morphology of dendrites and dendritic spines in the nucleus accumbens and neocortex. *Synapse*, 2001, *39*, 257-266

(120) Day, H.E.W., Badiani, A., Uslander, J.M., Oates, M., Vittoz, N.M., Robinson, T.E., Watson, S.J. and Akil, H. Environmental novelty differentially affects amphetamine-induced *c-fos* mRNA expression in subregions of the bed nucleus of the stria terminalis and amygdala. *Journal of Neuroscience*, 2001, *21*, 732-740.

(121) Robinson, T.E. and Berridge, K.C. Incentive-sensitization and addiction. *Addiction*, 2001, *96*, 103-114.

(122) Crombag, H., Badiani, A., Chan, J., Dell'Orco, J., Dineen, S. P. and Robinson, T.E. The ability of environmental context to facilitate psychomotor sensitization to amphetamine can be dissociated from its effect on acute drug responsiveness and on conditioned responding. *Neuropsychopharmacology*, 2001, *24*, 680-690

(123) Uslander, J., Badiani, A., Norton, C., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine and cocaine induce different patterns of *c-fos* mRNA expression in the striatum and subthalamic nucleus depending on environmental context. *European Journal of Neuroscience*, 2001, *13*, 1977-1983

(124) Uslander, J., Badiani, A., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Environmental context modulates the ability of cocaine and amphetamine to induce *c-fos* mRNA expression in the neocortex, caudate nucleus and nucleus accumbens. *Brain Research*, 2001, *920*, 106-116

(125) Kabbaj, M., Norton, C.S., Kollack-Walker, S., Watson, S.K., Robinson, T.E. and Akil, H. Social defeat alters the acquisition of cocaine self-administration in rats: role of individual differences in cocaine-taking behavior. *Psychopharmacology*, 2001, *158*, 382-387

#### 2002

(126) Anagnostaras, S.G., Schallert, T. and Robinson, T.E. Memory process governing amphetamine-induced psychomotor sensitization. *Neuropsychopharmacology*, 2002, *26*, 703-715.

(127) Samaha, A-N, Li, Y. and Robinson, T.E. The rate of intravenous cocaine administration determines susceptibility to sensitization. *Journal of Neuroscience*, 2002, *22*, 3244-3250.

(128) Klebaur, J.E., Ostrander, M.M., Norton, C. S., Watson, S.J., Akil, H. and Robinson, T.E. The ability of amphetamine to evoke arc (Arg 3.1) mRNA expression in the caudate-putamen, nucleus accumbens and neocortex is modulated by environmental context. *Brain Research*, 2002, *930*, 30-36.

(129) Day, H.E.W., Vittoz, N.M., Oates, M., Badiani, A., Watson, S.J., Robinson, T.E. and Akil, H. A 6-hydroxydopamine lesion of the mesostriatal dopamine system decreases the expression of corticotropin releasing hormone and neurotensin mRNAs in the amygdala and bed nucleus of the stria terminalis. *Brain Research*, 2002, *945*, 151-159.

(130) Crombag, H., Jedynek, J., Redmond, K., Robinson, T.E. and Hope, B.T. Locomotor sensitization to cocaine is associated with increased Fos expression in the accumbens, but not in the caudate. *Behavioural Brain Research*, 2002, *136*, 455-462.

(131) Robinson, T.E., Gorny, G., Savage, V.R. and Kolb, B. Widespread but regionally-specific effects of experimenter- versus self-administered morphine on dendritic spines in the nucleus accumbens, hippocampus and neocortex of adult rats. *Synapse*, 2002, *46*, 271-279.

**2003**

- (132) Robinson, T.E. and Berridge, K.C. Addiction. *Annual Review of Psychology*. 2003, 54, 25-53.
- (133) Li, Y., Robinson, T.E. and Bhatnagar, S. Effects of maternal separation on behavioral sensitization produced by repeated cocaine administration in adulthood. *Brain Research*, 2003, 960, 42-47.
- (134) Li, Y., Kolb, B. and Robinson, T.E. The location of persistent amphetamine-induced changes in the density of dendritic spines on medium spiny neurons in the nucleus accumbens and caudate-putamen. *Neuropsychopharmacology*, 2003, 28, 1082-1085.
- (135) Kolb, B., Gorny, G., Söderpalm, A.H.V. and Robinson, T.E. Environmental complexity has different effects on the structure of neurons in the prefrontal cortex versus the parietal cortex or nucleus accumbens. *Synapse*, 2003, 48, 149-153.
- (136) Uslaner, J., Norton, C.S., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-induced *c-fos* mRNA expression in the caudate-putamen and subthalamic nucleus: interactions between dose, environment and neuronal phenotype. *Journal of Neurochemistry*, 2003, 85, 105-114.
- (137) Ostrander, M.M., Badiani, A., Day, H.E.W., Norton, C., Watson, S.J., Akil, H. and Robinson, T.E. Environmental context and drug history modulate amphetamine-induced *c-fos* mRNA expression in the basal ganglia, central extended amygdala, and associated limbic forebrain. *Neuroscience*, 2003, 120, 551-571.
- (138) Fligel, S.B., Vázquez, D.M. and Robinson, T.E. Manipulations during the second week of life increase susceptibility to cocaine self-administration in a stressor and gender-specific manner. *Neuropsychopharmacology*, 2003, 28, 1741-1751.
- (139) Uslaner, J.M., Crombag, H.S., Ferguson S.M. and Robinson, T.E. Cocaine-induced psychomotor activity is associated with its ability to induce *c-fos* mRNA expression in the subthalamic nucleus: effects of dose and repeated treatment. *European Journal of Neuroscience*, 2003, 17, 2180-2186.
- (140) Kolb, B., Gibb, R. and Robinson, T.E. Brain plasticity and behavior. *Current Directions in Psychological Science*, 2003, 12, 1-5. [Reprinted in J. Lerner & A.E. Alberts, Eds., *Current Directions in Developmental Psychology: Readings from the American Psychological Society*, Pearson/Prentice Hall, Upper Saddle, NJ, 2004 and in A.C. DeVries & R.J. Nelson (Eds.), *Current Directions in Biopsychology: Readings from the American Psychological Society*, Pearson/Prentice Hall, Upper Saddle, NJ, 2009]
- (141) Ferguson, S.M., Norton, C., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-evoked *c-fos* mRNA expression in the caudate-putamen: the effects of DA and NMDA receptor antagonists vary as a function of neuronal phenotype and environmental context. *Journal of Neurochemistry*, 2003, 86, 33-44.
- (142) Kolb, B., Gorny, G., Li, Y., Samaha, A-N. and Robinson, T.E. Amphetamine or cocaine limits the ability of later experience to promote structural plasticity in the neocortex and nucleus accumbens. *Proceedings of the National Academy of Sciences (USA)*, 2003, 100, 10523-10528. PMID: PMC193594
- (143) Berridge, K.C. and Robinson, T.E. Parsing reward. *Trends in Neurosciences*, 2003, 26, 507-513.

**2004**

- (144) Robinson, T.E. and Berridge, K.C. Incentive-sensitization and drug 'wanting': A commentary on Zernig et al. *Psychopharmacology*, 2004, 171, 352-353. [Commentary].
- (145) Crombag, H.C. and Robinson, T.E. Drugs, environment, brain, and behavior. *Current Directions in Psychological Science*, 2004, 13, 107-111. [Reprinted in A.C. DeVries & R.J. Nelson (Eds.), *Current Directions in Biopsychology: Readings from the American Psychological Society*, Pearson/Prentice Hall, Upper Saddle, NJ, 2009]

- (146) Kolb, B., Pellis, S. and Robinson, T.E. Plasticity and functions of the orbital frontal cortex. *Brain and Cognition* 2004, 55, 104-115.
- (147) Ferguson, S.M., Thomas, M.J. and Robinson, T.E. Morphine-induced c-fos mRNA expression in striatofugal circuits: modulation by dose, environmental context and drug history. *Neuropsychopharmacology* 2004, 29, 1664-1667.
- (148) Hu, M., Crombag, H.S., Jackson, L.R., Robinson, T.E. and Becker, J.B. Biological basis of sex differences in the propensity to self-administer cocaine. *Neuropsychopharmacology*, 2004, 29, 81-85.
- (149) Samaha, A-N., Mallet, N., Ferguson, S.M., Gonon, F. and Robinson, T.E. The rate of cocaine administration alters gene regulation and behavioural plasticity: implications for addiction. *Journal of Neuroscience*, 2004, 24, 6362-6370.
- (150) Ferguson, S.M. and Robinson, T.E. Amphetamine-evoked gene expression in striatopallidal neurons: regulation by corticostriatal afferents and the ERK/MAPK signaling cascade. *Journal of Neurochemistry*, 2004, 91, 337-348.
- (151) Badiani, A. and Robinson, T.E. Drug-induced neurobehavioral plasticity: role of environmental context. *Behavioural Pharmacology*, 2004, 15, 327-339.
- (152) Wei, Q., Lu, X.Y., Liu, L., Schafer, G., Shieh, K-R., Burke, S., Robinson, T.E., Watson, S., Seasholtz, A., Akil, H. Glucocorticoid receptor overexpression in forebrain: a mouse model of increased emotional lability. *Proceedings of the National Academy of Sciences (USA)*, 2004, 101, 11851-11856. PMID: PMC511063
- (153) Li, Y., Acerbo, M.J. and Robinson, T.E. The induction of behavioral sensitization is associated with cocaine-induced structural plasticity in the core (but not shell) of the nucleus accumbens. *European Journal of Neuroscience*, 2004, 20, 1647-1654.
- (154) Robinson, T.E. and Kolb, B. Structural plasticity associated with exposure to drugs of abuse. *Neuropharmacology*, 2004, 47 (SI), 33-46.
- (155) Robinson, T.E. Addicted rats. *Science*, 2004, 305, 951-953. (Invited "Perspective").
- (156) Dong, Y., Saal, D., Thomas, M., Faust, R., Bonci, A., Robinson, T.E. and Malenka, R.C. Cocaine-induced potentiation of synaptic strength in dopamine neurons: behavioral correlates in GluRA(-/-) mice. *Proceedings of the National Academy of Sciences (USA)*, 2004, 101, 14282-14287.
- 2005**
- (157) Samaha, A-N. and Robinson, T.E. Why does the rapid delivery of drugs to the brain promote addiction? *Trends in Pharmacological Sciences*, 2005, 26, 82-87.
- (158) Crombag, H.C., Gorny, G., Li, Y., Kolb, B., and Robinson, T.E. Opposite effects of amphetamine self-administration experience on dendritic spines in the medial and orbital frontal cortex. *Cerebral Cortex*, 2005, 15, 341-348.
- (159) Samaha, A-N., Yau, W., Yang, P. and Robinson, T.E. Rapid delivery of nicotine promotes behavioural sensitization and alters its neurobiological impact. *Biological Psychiatry*, 2005, 57, 351-360.
- (160) Ferrario, C.R., Gorny, G., Crombag, H.S., Li, Y., Kolb, B. and Robinson, T.E. Neural and behavioral plasticity associated with the transition from controlled to escalated cocaine use. *Biological Psychiatry*, 2005, 58, 751-759.
- (161) Briand, L.A., Robinson, T.E. and Maren, S. Enhancement of auditory fear conditioning by environmental complexity is attenuated by prior treatment with amphetamine. *Learning & Memory*, 2005, 12, 553-556.
- (162) Uslaner, J., Yang, P. and Robinson, T.E. Subthalamic nucleus lesions enhance the psychomotor-activating, incentive motivational and neurobiological effects of cocaine. *Journal of Neuroscience*, 2005, 25, 8407-8415.

**2006**

- (163)\* Berridge, K.C. and Robinson, T.E. Automatic processes in addiction: a commentary. In R.W. Weirs and A.S. Stacy (Eds.), *Handbook of Implicit Cognition and Addiction*, Sage Publishers, London, 2006, pp. 477-481.
- (164) Ferguson, S.M., Fasano, S., Yang, P., Brambilla, R. and Robinson, T.E. Knockout of ERK1 enhances cocaine-evoked immediate early gene expression and behavioral plasticity. *Neuropsychopharmacology*, 2006, *31*, 2660-2668.
- (165) Jackson, L.R., Robinson, T.E. and Becker, J.B. Sex differences and hormonal influences on acquisition of cocaine self-administration in rats. *Neuropsychopharmacology*, 2006, *31*, 129-138.
- (166) Venton, B.J., Robinson, T.E. and Kennedy, R.T. Transient changes in nucleus accumbens amino acid concentrations correlate with individual responsivity to the predator fox odor 2,5-dihydro-2,4,5-trimethylthiazoline. *Journal of Neurochemistry*, 2006, *96*, 236-246.
- (167) Venton, B.J., Robinson, T.E. Kennedy, R.T. and Maren, S. Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. *European Journal of Neuroscience*, 2006, *23*, 3391-3398.
- (168) Uslaner, J.M., Acerbo, M.J., Jones, S.A. and Robinson, T.E. The attribution of incentive salience to a stimulus that signals an intravenous injection of cocaine. *Behavioural Brain Research*, 2006, *169*, 320-324.
- (169) Uslaner, J.M. and Robinson, T.E. Subthalamic nucleus lesions increase impulsive action and decrease impulsive choice - mediation by enhanced incentive motivation? *European Journal of Neuroscience*, 2006, *24*, 2345-2354.
- (170) Shou, M., Ferrario, C.R., Schultz, K.N., Robinson, T.E. and Kennedy, R.T. Monitoring of dopamine in vivo by microdialysis sampling and on-line CE-laser-induced fluorescence. *Analytical Chemistry*, 2006, *78*, 6717-6725.
- 2007**
- (171) Flagel, S.B., Watson, S.M., Robinson, T.E. and Akil, H. Individual differences in the propensity to approach signals vs. goals promote different adaptations in the dopamine system. *Psychopharmacology*, 2007, *191*, 599-607.
- (172) Jedynak, J.P., Uslaner, J.M., Esteban, J.A. and Robinson, T.E. Methamphetamine-induced structural plasticity in the dorsal striatum. *European Journal of Neuroscience*, 2007, *25*, 847-853.
- (173) Ferrario, C.R. and Robinson, T.E. Amphetamine pretreatment accelerates the subsequent escalation of cocaine self-administration behavior. *European Neuropsychopharmacology*, 2007, *17*, 352-357.
- (174)\*Uslaner, J.M., Crombag, H.S. and Robinson, T.E. The influence of environmental context on the effects of drugs of abuse. In A. Kalechstein and W. van Gorp (Eds.), *Neuropsychology and Substance Abuse: State-of-the-Art and Future Directions*, Taylor & Francis, New York, 2007, pp. 435-456.
- (175) Flagel, S.B. and Robinson, T.E. Quantifying the psychomotor activating effects of cocaine in the rat. *Behavioural Pharmacology*, 2007, *18*, 297-302.
- 2008**
- (176) Uslaner, J.M., Dell'Orco, J.M., Pevzner, A. and Robinson, T.E. The influence of subthalamic nucleus lesions on sign-tracking to stimuli paired with food and drug rewards: facilitation of incentive salience attribution?, *Neuropsychopharmacology*, 2008, *33*, 2352-2361.
- (177) Flagel, S.B., Watson, S.M., Akil, H. and Robinson, T.E. Individual differences in the attribution of incentive salience to a reward-related cue: influence on cocaine sensitization. *Behavioural Brain Research*, 2008, *186*, 48-56. PMID: PMC2225480
- (178) Briand, L.A., Flagel, S.B., Seeman, P. and Robinson, T.E. Cocaine self-administration produces a persistent increase in dopamine D2<sup>High</sup> receptors. *European Neuropsychopharmacology*, 2008, *18*, 551-556. PMID: PMC2527181

- (179) Briand, L.A., Flagel, S.B., Watson, S.M., Akil, H., Sarter, M. and Robinson, T.E. Persistent alterations in cognitive function and dopamine-related gene expression following extended (but not limited) access to self-administered cocaine. *Neuropsychopharmacology*, 2008, 33, 2969-2980.
- (180) Crombag, H.C., Ferrario, C., and Robinson, T.E. The rate of intravenous cocaine or amphetamine delivery: influence on drug-taking and drug-seeking behavior in rats. *Pharmacology, Biochemistry & Behavior*, 2008, 90, 797-804. PMID: PMC2576488
- (181) Ferrario, C.R., Shou, M., Samaha, A.N., Watson, C.J., Kennedy, R.T. and Robinson, T.E. The rate of intravenous cocaine infusion alters the dynamics of extracellular dopamine, but not glutamate, overflow in the striatum. *Brain Research*, 2008, 1209, 151-156. PMID: PMC2430427
- (182) Robinson, T.E. and Berridge, K.C. The incentive-sensitization theory of addiction: some current issues. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 2008, 363, 3137-3146. [Reprinted in, Robbins, T.W., Everitt, B.J. and Nutt, D.J., Eds., *The Neurobiology of Addiction: New Vistas*, Oxford University Press, Oxford, UK, 2010, pp. 43-58]. PMID: PMC2607325
- (183) Briand, L.A., Gross, J.P. and Robinson, T.E. Impaired object recognition following prolonged withdrawal from extended access cocaine self-administration. *Neuroscience*, 2008, 155, 1-6. PMID: PMC2523261
- 2009**
- (184) Robinson, T.E. and Flagel, S.B. Dissociating the predictive and incentive motivational properties of reward-related cues through the study of individual differences. *Biological Psychiatry*, 2009, 65, 869-873. PMID: PMC2737368
- (185) Berridge, K.C., Robinson, T.E. and Aldridge, W.C. Dissecting components of reward: 'liking', 'wanting', and learning. *Current Opinion in Pharmacology*, 2009, 9, 1-9. PMID: PMC2756052
- (186) \*Badiani, A. and Robinson, T.E. Drug addiction: behavioral pharmacology of drug addiction in rats. In L.R. Squire (Ed.), *Encyclopedia of Neuroscience*, Vol. 3, Academic Press, Oxford, 2009, pp. 683-690.
- (187) Flagel, S.B., Akil, H. and Robinson, T.E. Individual differences in the attribution of incentive salience to reward-related cues: implications for addiction. *Neuropharmacology*, 2009, 56 (Suppl. 1), 139-148. PMID: PMC2635343
- 2010**
- (188) \*Robinson, T.E. Sensitization to drugs. In I. Stolerman (Ed.), *Encyclopedia of Psychopharmacology*, Springer, Heidelberg, 2010 (eReferences, 10.1007/978-3-540-68706-1\_51).
- (189) Flagel, S.B., Robinson, T.E., Clark, J.J., Clinton, S.M., Watson, S.M., Seeman, P., Phillips, P.E.M. and Akil, H. An animal model of genetic vulnerability to behavioral disinhibition and responsiveness to reward-related cues: implications for addiction. *Neuropsychopharmacology*, 2010, 35, 388-400. PMID: PMC2794950
- (190) Saunders, B.T. and Robinson, T.E. A cocaine cue acts as an incentive stimulus in some, but not others: implications for addiction. *Biological Psychiatry*, 2010, 67, 730-736. PMID: PMC2849872
- (192) Yager, L.M. and Robinson, T.E. Cue-induced reinstatement of food seeking in rats that differ in their propensity to attribute incentive salience to food cues. *Behavioural Brain Research*, 2010, 214, 30-34. PMID: PMC2910199
- (193) Wakabayashi, K.T., Weiss, M.J., Pickup, K.N. and Robinson, T.E. Rats markedly escalate their intake and show a persistent susceptibility to reinstatement only when cocaine is injected rapidly. *Journal of Neuroscience*, 2010, 30, 11346-11355. PMID: PMC2937161
- 2011**
- (194) Flagel, S.B., Clark, J.J., Robinson, T.E., Mayo, I., Czuj, A., Willuhn, I., Akers, C.A., Clinton, S.M., Phillips, P.E.M. and Akil, H. A selective role for dopamine in stimulus-reward learning. *Nature*, 2011, 469, 53-59. PMID: PMC3058375
- (195) Lomanowska, A.M., Lovic, V., Rankine, M.J., Mooney, S.J., Robinson, T.E. and Kraemer, G.W. Inadequate early

social experience increases the incentive salience of reward-related cues in adulthood. *Behavioural Brain Research*, 2011, 220, 91-99.

- (196) Morrow, J.D., Maren, S. and Robinson, T.E. Individual variation in the propensity to attribute incentive salience to an appetitive cue predicts the propensity attribute motivational salience to an aversive cue. *Behavioural Brain Research*, 2011, 220, 238-243. PMID: PMC307312
- (197) Saunders, B.T. and Robinson, T.E. Individual variation in the motivational properties of cocaine. *Neuropsychopharmacology*, 2011, 36, 1668-1676. PMID: PMC3138662
- (198) \*Berridge, K.C., Robinson, T.E. Drug addiction as incentive-sensitization. In, *Addiction and Responsibility. A Volume in the MIT Series on Philosophical Psychopathology: Disorders of the Mind*. Poland, J.S. and Graham, G. (Eds.), MIT Press, Cambridge, 2011, pp. 21-53.
- (199) Lovic, V., Saunders, B.T., Yager, L.M. and Robinson, T.E. Rats prone to attribute incentive salience to reward cues are also prone to impulsive action. *Behavioural Brain Research*, 2011, 223, 255-261. PMID: PMC3119757
- (200) Flagel, S.B., Cameron, C.M., Pickup, K.N., Watson, S.J., Akil, H. and Robinson, T.E. A food predictive cue must be attributed with incentive salience for it to induce c-fos mRNA in cortico-striatal-thalamic brain regions. *Neuroscience*, 2011, 196, 80-96. PMID: PMC3206316
- 2012**
- (201) Jedynek, J.P., Cameron, C.M. and Robinson, T.E. Repeated methamphetamine administration differentially alters Fos expression in caudate-putamen patch and matrix compartments and nucleus accumbens. *PLoS ONE*, 2012, 7(4): e34227. doi:10.1371/journal.pone.0034227. PMID: PMC3326007
- (202) Meyer, P.J., Ma, S.T. and Robinson, T.E. A cocaine cue is more preferred and evokes more frequency-modulated 50 kHz ultrasonic vocalizations in rats prone to attribute incentive salience to a food cue. *Psychopharmacology*, 2012, 219, 999-1009. PMID: PMC3578944
- (203) Meyer, P.J., Lovic, V., Saunders, B.T., Yager, L.M., Flagel, S.B., Morrow, J.D. and Robinson, T.E. Quantifying individual variation in the propensity to attribute incentive salience to reward cues. *PLoS ONE*, 2012, 7(6): e38987. doi:10.1371/journal.pone.0038987. PMID: PMC3382216
- (204) Saunders, B.T. and Robinson, T.E. The role of dopamine in the accumbens core in the expression of Pavlovian conditioned responses. *European Journal of Neuroscience*, 2012, 36, 2521-2532. PMID: PMC3424374
- 2013**
- (205) Saunders, B.T., Yager, L.M. and Robinson, T.E. Preclinical studies shed light on individual variation in addiction vulnerability. *Neuropsychopharmacology Reviews*, 2013, 38, 249-250 ("Hot Topic" Abstract). PMID: PMC3521973
- (206) Yager, L.M. and Robinson, A classically conditioned cocaine cue acquires greater control over motivated behavior in rats prone to attribute incentive salience to a food cue. *Psychopharmacology*, 2013, 226, 217-228. PMID: PMC3570662
- (207) Saunders, B.T. and Robinson, T.E. Individual variation in resisting temptation: implications for addiction. *Neuroscience and Biobehavioral Reviews*, 2013, 37, 1955-1975. PMID: PMC3732519
- (208) Waselus, M., Flagel, S.B., Jedynek, J.P., Akil, H., Robinson, T.E., and Watson, S.J. Long-term effects of cocaine experience on neuroplasticity in the nucleus accumbens core of addiction-prone rats. *Neuroscience*, 2013, 248, 571-584. PMID: PMC3859827
- (209) Saunders, B.T., Yager, L.M. and Robinson, T.E. Cue-evoked cocaine "craving": role of dopamine in the accumbens core. *Journal of Neuroscience*, 2013, 33, 13989-14000. PMID: PMC3756749

- (210) Paolone, G., Angelakos, C.C., Meyer, P.J., Robinson, T.E. and Sarter, M. Cholinergic control over attention in rats prone to attribute incentive salience to reward cues. *Journal of Neuroscience*, 2013, 33, 8321-8335. PMID: PMC3690461
- (211)\* Singer, B.F. and Robinson, T.E. The incentive-sensitization disease model of addiction: where are we now? McGraw-Hill Yearbook of Science & Technology, 2014.
- (212)\* Robinson, M.J.F., Robinson, T.E. and Berridge, K.C., Incentive salience and the transition to addiction. In: *Biological Research on Addiction: Comprehensive Addictive Behaviors and Disorders*, 2013, Elsevier Inc., San Diego: Academic Press, pp. 391–399.
- (213) Fitzpatrick, C.J., Gopalakrishnan, S., Cogan, E.S., Yager, L.M., Meyer, P.J., Lovic, V., Saunders, B.T., Parker, C.C., Gonzales, N.M., Aryee, E., Flagel, S.B., Palmer, A.A., Robinson, T.E., Morrow, J.D. Variation in the form of Pavlovian conditioned approach behavior among outbred male Sprague Dawley rats from different vendors and colonies: sign-tracking vs. goal-tracking. *PLoS One*, 2013, 8(10): e75042. doi:10.1371/ journal.pone.0075042. PMID: PMC3787975
- 2014**
- (214) Lesaint, F., Sigaud, O., Flagel, S.B., Robinson, T.E., and Khamassi, M. Modeling individual differences in the form of Pavlovian conditioned approach responses: a dual learning systems approach with factored representations. *PLoS Computational Biology*, 2014, 10(2): e1003466. doi:10.1371/journal.pcbi.1003466. PMID: PMC3923662
- (214b) Robinson, T.E. Sensitization to drugs. In *Encyclopedia of Psychopharmacology*, Ian P. Stolerman and Lawrence H. Price (eds), Springer-Verlag, Berlin, 2014, pp. 1544-1550. DOI 10.1007/978-3-642-27772-651-2.
- (215) Robinson, T.E., Yager, L.M., Cogan, E.S. and Saunders, B.T. On the motivational properties of reward cues: individual differences. *Neuropharmacology*, 2014, 76, 450-459. (NIDA 40th Anniversary Issue). PMID: PMC3796005
- (216) Parker, C.C., Hao, C, Flagel, S.B., Geurts, A.M., Richards, J.B., Robinson, T.E., Solberg Woods, L.C. and Palmer, A.A., Rats are the smart choice: Rationale for a renewed focus on rats in behavioral genetics. *Neuropharmacology*, 2014, 76, 250-258. (NIDA 40th Anniversary Issue). PMID: PMC3823679
- (217) Meyer, P.J., Cogan, E.S. and Robinson, T.E. The form of a conditioned stimulus influences the degree to which it acquires incentive motivational properties. *PLoS One*, 2014, 9(6): e98163. doi:10.1371/journal.pone.0098163. PMID: PMC4048203
- (218) Saunders, B.T., O'Donnell, E.G., Aurbach, E.L. and Robinson, T.E. A cocaine context renews drug-seeking behavior preferentially in a subset of individuals. *Neuropsychopharmacology*, 2014, 39, 2816-23. doi: 10.1038/npp.2014.131. PMID: PMC4200491
- (219)\* Robinson, M.J.F., Robinson, T.E. and Berridge, K.C., Incentive salience in addiction and over-consumption. In S.D. Preston, M.L. Kringelbach, B. Knutson and P.C. Whybrow (Eds.), *The Interdisciplinary Science of Consumption*, MIT Press, 2014, pp. 185-198.
- 2015**
- (220) Morrow, J.D., Saunders, B.T., Maren, S. and Robinson, T.E. Sign-tracking to an appetitive cue predicts incubation of conditioned fear in rats. *Behavioural Brain Research*, 2015, 276, 59-66. http://dx.doi.org/10.1016/j.bbr.2014.04.002. PMID: PMC4201891
- (221) Pitchers, K.K., Flagel, S.B., O'Donnell, E.G., Solberg Woods, L.C., Sarter, M. and Robinson, T.E. Individual variation in the propensity to attribute incentive salience to a food cue: influence of sex. *Behavioural Brain Research*, 2015, 278, 462-469. PMID: PMC4382370
- (222) Yager, L.M., Pitchers, K.K., Flagel, S.B. and Robinson, T.E. Individual variation in the motivational and neurobiological effects of an opioid cue. *Neuropsychopharmacology*, 2015, 40, 1269-1277; doi:10.1038/npp.2014.314. PMID: PMC4367472

- (223) Yager, L.M. and Robinson, T.E. Individual variation in the motivational properties of a nicotine cue: sign-trackers vs. goal-trackers. *Psychopharmacology*, 2015, 232, 3149-3160. PMID: PMC4536151
- 2016**
- (224) Ahrens, A.M., Singer, B.F., Fitzpatrick, C.J., Morrow, J.D. and Robinson, T.E. Rats that sign-track are resistant to Pavlovian but not instrumental extinction. *Behavioural Brain Research*, 2016, 296, 418-430. PMID: PMC4681397
- (225) Singer, B.F., Gupkaroy, B., Austin, C.J., Wohl, I. Vaughan, R.A., Gnegy, M.E., Robinson T.E. and Aragona, B.J. Individual variation in incentive salience attribution and accumbens dopamine transporter expression and function. *European Journal of Neuroscience*, 2016, 43(5), 662-670. PMID: PMC4783234
- (226) Kawa, A.B., Bentzley, B.S. and Robinson, T.E. Less is more: prolonged intermittent access cocaine self-administration produces incentive-sensitization and addiction-like behavior. *Psychopharmacology*, 2016, 233, 3587-3602. PMID: PMC5023484
- (227) Ahrens, A.M., Meyer, P.J., Ferguson, L., Robinson, T.E. and Aldridge, J.W. Neural activity in the ventral pallidum encodes variation in the incentive value of a reward cue. *Journal of Neuroscience*, 2016, 36(30), 7957-7970. PMID: PMC4961780
- (228) Singer, B.F., Bryan, M.A., Popov, P., Scarff, R. Wright, E., Aragona, B.J. and Robinson T.E. The sensory features of a food cue influence its ability to act as an incentive stimulus and evoke dopamine release in the nucleus accumbens core. *Learning & Memory*, 2016, 23(11), 595-606. PMID: PMC5066606
- (229) Berridge, K.C. and Robinson, T.E. Liking, wanting and the incentive-sensitization theory of addiction. *American Psychologist*, 2016, 71(8), 670-679. PMID: PMC5171207
- (230)\*Robinson, T.E. and Berridge, K.C. Beyond Wise et al. (1978) - Neuroleptic-induced “anhedonia” in rats: pimozide blocks reward quality of food. Commentary on Wise RA, Spindler J, deWit H, Gerberg GJ., *Science*. 1978 Jul 21;201(4352):262-4. In: *Brain and Behaviour: Revisiting the Classic Studies*. B. Kolb and I.Q. Whishaw (Eds.), Sage Publishing, UK, 2016.
- 2017**
- (231) Pitchers, K.K., Wood, T.R., Skrzyński, C.J., Robinson, T.E. and Sarter, M. The ability for cocaine and cocaine-associated cues to compete for attention. *Behavioural Brain Research*, 2017, 320, 302-315. PMID: PMC5242234
- (232) Flagel, S.B. and Robinson, T.E. Neurobiological basis of individual variation in stimulus-reward learning. *Current Opinion in Behavioral Sciences*, 2017, 13, 178-185. PMID: PMC5486979
- (233) Singer, B.F., Bryan, M.A., Popov, P., Robinson T.E. and Aragona, B.J. Rapid induction of dopamine sensitization in the nucleus accumbens shell induced by a single injection of cocaine. *Behavioural Brain Research*, 2017, 324, 66-70. PMID: PMC5346451
- (234) Pitchers, K.K., Phillips, K., Jones, J., Robinson, T.E. and Sarter, M. Diverse roads to relapse: A discriminative cue signaling cocaine availability is more effective in renewing cocaine-seeking in goal-trackers than sign-trackers, and depends on basal forebrain cholinergic activity. *Journal of Neuroscience*, 2017, 37, 7198-7208. PMID: PMC5546399
- (235) Pitchers, K.K., Kane, L., Kim, Y., Robinson, T.E. and Sarter, M. “Hot” versus “cold” behavioral-cognitive styles: motivational-dopaminergic versus cognitive-cholinergic processing of a Pavlovian cocaine cue in sign- and goal-tracking rats. *European Journal of Neuroscience*, 2017, 46(11), 2768-2781. PMID: PMC6088792
- 2018**
- (236) Singer, B.F., Fadanelli, M., Kawa, A.B. and Robinson, T.E. Are cocaine-seeking “habits” necessary for the development of addiction-like behavior in rats? *Journal of Neuroscience*, 2018, 38(1), 60-73. PMID: PMC5761437 [Bryan Singer won a 2018 Early Stage Investigator Paper Competition from the NIH Office of Behavioral and Social Sciences Research for this paper].

- (237) Badiani, A., Berridge, K.C., Heilig, M., Nutt, D.J. and Robinson, T.E. Addiction research and theory: a commentary on the Surgeon General's Report on alcohol, drugs, and health. *Addiction Biology*, 2018, 23(1), 3-5. PMID: PMC5608628
- (238) Ahrens, A.M., Ferguson, L., Robinson, T.E. and Aldridge, J.W. Dynamic encoding of incentive salience in the ventral pallidum: dependence on the form of the reward cue. *eNeuro*, 2018 May 8; 5(2). pii: ENEURO.0328-17.2018. doi: 10.1523/ENEURO.0328-17.2018 PMID: PMC5938716
- (239) Kolb, B., Li, Y., Robinson, T.E. and Parker, L.A. THC alters morphology of neurons in medial prefrontal cortex, orbital prefrontal cortex, and nucleus accumbens and alters the ability of later experience to promote structural plasticity. *Synapse*, 2018, Mar;72(3). doi: 10.1002/syn.22020. Epub 2017 Dec 7.
- (240) Cogan, E.S., Shapses, M.A., Robinson, T.E. and Tronson, N.C. Disrupting reconsolidation in rats: memory erasure or blunting of emotional/motivational value? *Neuropsychopharmacology*, 2019, 44, 399-407. PMID: PMC6300536
- (241)\* Robinson, M.J.F., Robinson, T.E. and Berridge, K.C. The current status of the incentive sensitization theory of addiction. In *The Routledge Handbook of Philosophy and Science of Addiction*. H. Pickard and S. Ahmed (Eds.), Routledge, Taylor & Francis Group, New York, 2018, pp. 351-361.
- (242) Pitchers, K.K., Sarter, M. and Robinson, T.E. The hot 'n' cold of cue-induced drug relapse. *Learning & Memory*, 2018, 25(9), 474-480 PMID: PMC6097766
- (243)\* Robinson, T.E., Carr, C. and Kawa, A.B. The propensity to attribute incentive salience to drug cues and poor cognitive control combine to render sign-trackers susceptible to addiction. In *Sign-Tracking and Drug Addiction*, A. Tomie and J.D. Morrow (Eds.), Maize Books, Ann Arbor, 2018. Open Access at DOI: <http://dx.doi.org/10.3998/mpub.10215070>
- 2019**
- (244) Fitzpatrick, C.J., Becker, J.B., Jagannathan, L., Lowenstein, L., Robinson, T.E. and Morrow, J.D. Single prolonged stress decreases sign-tracking and cue-induced reinstatement of cocaine-seeking. *Behavioural Brain Research*, 2019, 359, 799-806. PMID: PMC6309754.
- (245) Kawa, A.B., Valenta, A.C., Kennedy, R.T. and Robinson, T.E. Incentive and dopamine sensitization produced by intermittent but not long access cocaine self-administration. *European Journal of Neuroscience*, 2019, 50, 2663–2682. PMID: PMC6742545. *bioRxiv* preprint posted online December 19, 2018; doi: <https://doi.org/10.1101/499475>
- (246) Kawa, A.B. and Robinson, T.E. Sex differences in incentive-sensitization produced by intermittent access cocaine self-administration. *Psychopharmacology*, 2019, 236, 625-639. PMID: PMC6401254
- (247) Kawa, A.B., Allain, F., Robinson, T.E. and Samaha, A-N. The transition to cocaine addiction: the importance of pharmacokinetics for preclinical models. *Psychopharmacology*, 2019, 236, 1145–1157 doi: 10.1007/s00213-019-5164-0. PMID: PMC6592776
- (248) Hughson, A.R., Horvath, A.P., Holl, K., Palmer, A.A., Solberg Woods, L.C., Robinson, T.E. and Flagel, S.B. Incentive salience attribution, “sensation-seeking” and “novelty-seeking” are independent traits in a large sample of male and female heterogeneous stock rats. *Scientific Reports*, 2019, 9, 2351. PMID: PMC6382850 (bioRxiv preprint posted Sep. 18, 2018; doi: <http://dx.doi.org/10.1101/421065>.)
- 2020**
- (249) Carr, C.C., Ferrario, C.R. and Robinson, T.E. Intermittent access cocaine self-administration produces psychomotor sensitization: effects of withdrawal, sex and cross-sensitization. *Psychopharmacology*, 2020, 237, 1795–1812. PMID: PMC7244391 *bioRxiv* preprint first posted online Nov. 29, 2019; doi: <http://dx.doi.org/10.1101/859520>.
- (250) Chitre, A., Polesskaya, O., Holl, K., Gao, J., Cheng, R., Bimschleger, H., Garcia Martinez, A., George, A., Gileta, A., Han, W., Horvath, A., Hughson, A., Ishiwari, K., King, C., Lamparelli, A., Versaggi, C., Martin, C., St. Pierre, C., Tripi, J., Wang, T., Chen, H., Flagel, S., Meyer, P., Richards, J., Robinson, T.E., Palmer, A., and Solberg

Woods, L. Genome wide association study in 3,173 outbred rats identifies multiple loci for body weight, adiposity, and fasting glucose. *Obesity*, 2020, 28, 1964-1973.

## 2021

- (251) Allain, F., Delignat-Lavaus, B., Beaudoin M-P., Jacquemet, V., Robinson, T.E., Trudeau, L-E., and Samaha, A-N. Amphetamine maintenance therapy during intermittent cocaine self-administration in rats attenuates psychomotor and dopamine sensitization and reduces addiction-like behavior. *Neuropsychopharmacology*, 2021, 46, 305-315. *bioRxiv* preprint (2020.01.10.900852) posted online Jan. 10, 2020. doi: <https://doi.org/10.1101/2020.01.10.900852>.
- (252) King, C.P., Tripi, J.A., Hughson, A., Horvath, A., Lamparelli, A.C., Holl, K., Polesskaya, O., Richards, J.B., Solberg-Woods, L.C., Palmer, A.A., Robinson, T.E., Flagel, S.B. and Meyer, P.J. Sensitivity to food and cocaine cues are independent traits in a large sample of heterogeneous stock rats. *Scientific Reports*, 2021, 11, 2223. <https://doi.org/10.1038/s41598-020-80798-w>
- (253) Samaha, A-N., Khoo, S. S-Y., Ferrario, C.R. and Robinson, T.E. Dopamine “ups and downs” in addiction revisited. *Trends in Neuroscience*, 2021, 44, 516-526. Earlier version posted on PsyArXiv: <https://doi.org/10.31234/osf.io/8vch5>
- (254) Robinson, T.E., Khoo, S. S-Y., Ferrario, C.R. and Samaha, A-N., Dopamine in addiction: The cart should follow the horse. Response to a letter to the Editor. *Trends in Neuroscience*, 2021, 44, 595-596.
- (255) Flagel, S.B., Robinson, T.E. and Sarter, M. Comment on Pohorala et al.: Sign-tracking as a predictor of addiction vulnerability, Letter to the Editor, *Psychopharmacology*, 2021. <https://doi.org/10.1007/s00213-021-05927-3>

## 2022

- (256) Gileta A.F., Fitzpatrick C.J., Chitre A., St. Pierre, C.L., Joyce, E.V., Maguire, R.J., McLoed, A.M., Gonzales, N.M., Williams, A.E., Morrow, J.D., Robinson, T.E., Flagel, S.B. and Palmer, A.A. Genetic characterization of outbred Sprague Dawley rats and utility for genome-wide association studies. *PLOS Genetics*, 2022, 18, 1-29. *bioRxiv* preprint posted online Sep. 10, 2018; doi: <http://dx.doi.org/10.1101/412924>.

## 2023

- (257) Chitre, A., Polesskaya, O., Cheng, R., Holl, K., Gao, J., Bimschleger, H., Garcia Martinez, A., George, A., Gileta, A., Han, W., Horvath, A., Hughson, A., Ishiwari, K., King, C., Lamparelli, A., Versaggi, C., Martin, C., St. Pierre, C., Tripi, J., Richards, J.B., Wang, T., Chen, H., Flagel, S., Meyer, P., Robinson, T.E., Solberg-Woods, L. and Palmer, A.A. Exponential increase in QTL detection with increased sample size in heterogenous stock rats. *Genetics*, 2023, 224(2):iyad054. doi: 10.1093/genetics/iyad054. *bioRxiv* preprint posted online, <https://www.biorxiv.org/content/biorxiv/early/2023/01/29/2023.01.27.525982>
- (258) Wright, S.N., Leger, B.S., Rosenthal, S.B., Liu, S., Jia, T., Chitre, A.S., Polesskaya, O., Holl, K., Gao, J., Cheng, R., Martinez, A.G., George, T., Gileta, A.F., Han, W., Horvath, A., Hughson, A., King, C.P., Lamparelli, A., Versaggi, C.L., Martin, C., St. Pierre, C.L., Tripi, J.A., Wang, T., Bimschleger, H., Richards, J., Ishiwari, K., Chen, H., Flagel, S.B., Meyer, P., Robinson, T.E., Solberg Woods, L.C., Kreisberg, J.F., Ideker, T., Palmer, A.A. Genome-wide association studies of human and rat body mass index converge on a conserved molecular network *Cell Reports*, 2023, 42 (8), 112873. DOI:<https://doi.org/10.1016/j.celrep.2023.112873>
- (259) Catalfio, A.M., Fetterly, T.L. Nieto, A.M., Robinson, T.E. and Ferrario, C.R. Sex differences in cocaine-induced glutamate plasticity in the nucleus accumbens core. *Biology of Sex Differences*, 2023, 14, 41. <https://doi.org/10.1186/s13293-023-00525-8>

## 2025

- (260) Robinson, T.E. and Berridge, K.C. The incentive-sensitization theory of addiction 30 years on. *Annual Review of Psychology*, 2025, 76, 29-58.
- (261) Kolb, B. and Robinson, T.E. Prefrontal and ventral striatal dendritic morphology: effects of life-long complex housing and amphetamine administration. *Behavioral Brain Research*, 2025, 494, 115728. (*BioRxiv* preprint, 2024).
- (262) King, C.P., Chitre, A., Leal-Gutiérrez, J.D., Tripi, J.A., Netzley, A., Horvath, A., Lamparelli, A.C., George, A., Martin, C., St. Pierre, C.L., Sanches, T.M.; Bimschleger, H., Gao, J., Cheng, R., Nguyen K-M., Holl, K., Polesskaya, O., Ishiwari, K., Chen, H., Robinson, T.E., Flagel, S.B., Solberg-Woods, L.C., Palmer, A.A and Meyer, P.J. Genetic loci influencing cue-reactivity in heterogeneous stock rats. *Genes, Brain and Behavior*, 2025, 24 (2), e70018. doi: 10.1111/gbb.70018. Posted on Biorxiv, <https://doi.org/10.1101/2024.03.13.584852> in 2024.

(263) Tonnele, H., Chen, D., Morillo, F., Garcia-Calleja, J., Chitre, A.S., Johnson, B.B., Sanches, T.M., Bonder, M.J., Peña, A.G., Kosciolk, T., George A.M., Han, W., Holl, K., Horvath, A., Ishiwari, K., King, C.P., Lamparelli, A.C., Martin, C.D., Martinez, A.G., Netzley, A.H., Tripi, J.A., Wang, T., Bosch, E., Doris, P.A., Stegle, O., Chen, H., Flagel, S., Meyer, P.J., Richards, J.B., Robinson, T.E., Solberg Woods, L.C., Polesskaya, O., Knight, R., Palmer, A.A., Baud, A. Genetic architecture and mechanisms of host/microbiome interactions from a multi-cohort analysis of outbred laboratory rats. *Nature Communications*, 2025, 16, 10126. <https://doi.org/10.1038/s41467-025-66105-z> posted March 20, 2025 on *bioRxiv*, doi:<https://doi.org/10.1101/2025.03.20.644349>.

#### 2026

(264) \*Kawa, A.B. and Robinson, T.E. Escalation of cocaine consumption: tolerance versus sensitization of incentive salience. (Commentary on Ramborger et al., 2026). *Neuropsychopharmacology*, 2026, Posted online Feb. 28, <https://doi.org/10.1038/s41386-026-02370-w>

(265) Robinson, T.E. and Berridge, K.C. Can the incentive-sensitization theory of addiction incorporate addiction to opioid drugs? *Psychopharmacology*, 2026, Posted online Jan. 10, <https://doi.org/10.1007/s00213-025-07001-8>

(266) Catalfio, A.M., Fetterly, T.L., Wickens, M., Robinson, T.E. and Ferrario, C.R. Effects of withdrawal from intermittent vs long access cocaine self-administration on nucleus accumbens calcium permeable AMPA receptor transmission and incubation of craving in female and male rats. (under review).

### **E. EDITED BOOKS**

Robinson, T.E. (Ed.) *Behavioral Approaches to Brain Research*. Oxford University Press, New York, 1983.

Robinson, T.E. and Justice, J.B., Jr. (Eds.) *Microdialysis in the Neurosciences: Techniques in the Behavioral and Neural Sciences*, Vol. 7, Elsevier, Amsterdam, 1991.

## ADDENDUM TO VITA - HIGHLY CITED PAPERS (Citation counts in square brackets [ ]). Updated July, 2026

“Highly cited scientist”: Listed on ISIHighlyCited.com as one of the highest cited scientists (top 0.5%) in Neuroscience in the world (<http://portal.isiknowledge.com/portal.cgi?DestApp=HCR&Func=Frame>).

Citation analysis based on Google Scholar (<https://scholar.google.com/citations?hl=en&user=dwHDUDsAAAAJ>) and Web of Science:

**Lifetime Citations > 69,700**

**h Index = 117** (number of papers with citations equal to or greater than *h*; i.e., 117 papers with *at least* 117 citations).

### Papers with 100 or more citations (by year of publication)

1. Robinson, T.E., and Whishaw, I.Q. The effects of posterior hypothalamic lesions on voluntary behavior and hippocampal electroencephalograms in the rat. *Journal of Comparative and Physiological Psychology* [now *Behavioral Neuroscience*], 1974, 86, 768-786. [154]
2. Robinson, T.E., Vanderwolf, C.H., and Pappas, B.A. Are the dorsal noradrenergic bundle projections from the locus coeruleus important for neocortical or hippocampal activation? *Brain Research*, 1977, 138, 75-98. [139]
3. Robinson, T.E., Kramis, R.C., and Vanderwolf, C.H. Two types of cerebral activation during active sleep: relations to behavior. *Brain Research*, 1977, 124, 544-549. [146]
4. Robinson, T.E., and Vanderwolf, C.H. Electrical stimulation of the brain stem in freely moving rats. II. Effects on neocortical and hippocampal electrical activity and relations to behavior. *Experimental Neurology*, 1978, 61, 485-515. [183]
5. Vanderwolf, C.H., Kramis, R.C., and Robinson, T.E. Hippocampal electrical activity during waking behavior and sleep: Analyses using centrally acting drugs. *Ciba Foundation Symposium 58: Functions of the Septo-Hippocampal System*, Amsterdam: Elsevier, 1978, pp. 199-221. [174]
6. Robinson, T.E., Becker, J.B., and Ramirez, V.D. Sex differences in amphetamine-elicited rotational behavior and the lateralization of striatal dopamine in rats. *Brain Research Bulletin*, 1980, 5, 539-545. [186]
7. Camp, D.M., Robinson, T.E., and Becker, J.B. Sex differences in the effects of early experience on the development of behavioral and brain asymmetries. *Physiology and Behavior*, 1984, 33, 433-439. [128]
8. Robinson, T.E., Angus, A.L., and Becker, J.B. Sensitization to stress: the enduring effects of prior stress on amphetamine-induced rotational behavior. *Life Sciences*, 1985, 37, 1039-1042. [140]
9. Robinson, T.E., Becker, J.B., Young, E., Akil, H. and Castañeda, E. The effects of footshock stress on regional brain dopamine metabolism and pituitary B-endorphin release in rats sensitized to amphetamine. *Neuropharmacology*, 1987, 26, 679-691. [143]
10. Robinson, T.E. and Camp, D.M. Long-lasting effects of escalating doses of *d*-amphetamine on brain monoamines, amphetamine-induced stereotyped behavior and spontaneous nocturnal locomotion. *Pharmacology, Biochemistry and Behavior*, 1987, 26, 821-827. [140]
11. Castañeda, E., Becker, J.B., and Robinson, T.E. The long-term effects of repeated intermittent amphetamine treatment *in vivo* on amphetamine, potassium and electrical stimulation-induced dopamine release from striatal tissue *in vitro*. *Life Sciences*, 1988, 42, 2447-2456. [144]
12. Camp, D.M. and Robinson, T.E. Susceptibility to sensitization. I. Sex differences in the enduring effects of chronic *d*-amphetamine treatment on locomotion, stereotyped behavior and brain monoamines. *Behavioral Brain Research*, 1988, 30, 55-68. [161]
13. Robinson, T.E. Stimulant drugs and stress: factors influencing individual differences in the susceptibility to sensitization. In P.W. Kalivas and C. Barnes (Eds.), *Sensitization of the Nervous System*, Caldwell, NJ, Telford Press, 1988, pp. 145-173. [154]
14. Castañeda, E., Whishaw, I.Q., Lerner, L. and Robinson, T.E. Dopamine depletion in neonatal rats: effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. *Brain Research*, 1990, 508, 30-39. [112]
15. Robinson, T.E., Castañeda, E. and Whishaw, I.Q. Compensatory changes in striatal dopamine neurons following recovery from injury induced by 6-OHDA or methamphetamine: a review of evidence from microdialysis studies. *Canadian Journal of Psychology*, 1990, 44, 253-275. [147]
16. Robinson, T.E. and Camp, D.M. The feasibility of repeated microdialysis for within-subjects design experiments: studies on the mesostriatal dopamine system. In T. E. Robinson and J. B. Justice, Jr. (Eds.), *Techniques in the Behavioral and Neural Sciences, Vol. 7, Microdialysis in the Neurosciences*. Elsevier, Amsterdam, 1991, pp. 189-234. [162]
17. Paulson, P.E. and Robinson, T.E. Sensitization to systemic amphetamine produces an enhanced locomotor response to a subsequent intra-accumbens amphetamine challenge in rats. *Psychopharmacology*, 1991, 104, 140-141. [113]

18. Meisel, R.L., Camp, D.M. and Robinson, T.E. A microdialysis study of ventral striatal dopamine during sexual behavior in female Syrian hamsters. *Behavioral Brain Research*, 1993, 55, 151-157. [149]
19. Camp, D.M., Browman, K.E. and Robinson, T.E. The effects of methamphetamine and cocaine on motor activity and extracellular dopamine in the ventral striatum of Lewis versus Fischer 344 rats. *Brain Research*, 1994, 668, 180-193. [195]
20. Paulson, P.E. and Robinson, T.E. Relationship between circadian changes in spontaneous motor activity and dorsal versus ventral striatal dopamine neurotransmission assessed with on-line microdialysis. *Behavioral Neuroscience*, 1994, 108, 624-635. [124]
21. Robinson, T.E., Mocsary, Z., Camp, D.M. and Whishaw, I.Q. Time course of recovery of extracellular dopamine following partial damage to the nigrostriatal dopamine system. *Journal of Neuroscience*, 1994, 14, 2687-2696. [134]
22. Badiani, A., Morano, I., Akil, H. and Robinson, T.E. Circulating adrenal hormones are not necessary for the development of sensitization to the psychomotor activating effects of amphetamine. *Brain Research*, 1995, 673, 13-24. [112]
23. Crombag, H., Badiani, A. and Robinson, T.E. Signalled versus unsignalled intravenous amphetamine: large differences in the acute psychomotor response and sensitization. *Brain Research*, 1996, 722, 227-231. [129]
24. Frey, K., Kilbourn, M. and Robinson, T.E. Reduced striatal vesicular monoamine transporters after neurotoxic but not after behaviorally-sensitizing regimens of methamphetamine. *European Journal of Pharmacology*, 1997, 334, 273-279. [136]
25. Badiani, A., Camp, D.M. and Robinson, T.E. Enduring enhancement of amphetamine sensitization by drug-associated environmental stimuli. *Journal of Pharmacology and Experimental Therapeutics*, 1997, 282, 787-794. [121]
26. Browman, K.E., Badiani, A. and Robinson, T.E. The influence of environment on the induction of sensitization to the psychomotor activating effects of intravenous cocaine in rats is dose-dependent. *Psychopharmacology*, 1998, 137, 90-98. [142]
27. Browman, K.E., Badiani, A. and Robinson, T.E. Modulatory effect of environmental stimuli on the susceptibility to amphetamine sensitization: a dose-effect study in the rat. *Journal of Pharmacology and Experimental Therapeutics*, 1998, 287, 1007-1014. [110]
28. Badiani, A., Oates, M., Day, H.E.W., Watson, S.J., Akil, H. and Robinson, T.E. Environmental modulation of amphetamine-induced *c-fos* expression in D1 versus D2 striatal neurons. *Behavioural Brain Research*, 1999, 103, 203-209. [162]
29. Crombag, H., Badiani, A., Maren, S. and Robinson, T.E. The role of contextual versus discrete cues in promoting the induction of psychomotor sensitization to intravenous amphetamine. *Behavioural Brain Research*, 2000, 116, 1-22. [165]
30. Badiani, A., Oates, M. and Robinson, T.E. Modulation of morphine sensitization in the rat by contextual stimuli. *Psychopharmacology*, 2000, 151, 273-282. [108]
31. Kabbaj, M., Norton, C.S., Kollack-Walker, S., Watson, S.K., Robinson, T.E. and Akil, H. Social defeat alters the acquisition of cocaine self-administration in rats: role of individual differences in cocaine-taking behavior. *Psychopharmacology*, 2001, 158, 382-387 [176].
32. Uslaner, J., Badiani, A., Norton, C., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine and cocaine induce different patterns of *c-fos* mRNA expression in the striatum and subthalamic nucleus depending on environmental context. *European Journal of Neuroscience*, 2001, 13, 1977-1983 [136]
33. Uslaner, J., Badiani, A., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Environmental context modulates the ability of cocaine and amphetamine to induce *c-fos* mRNA expression in the neocortex, caudate nucleus and nucleus accumbens. *Brain Research*, 2001, 920, 106-116 [130]
34. Crombag, H., Badiani, A., Chan, J., Dell'Orco, J., Dineen, S. P. and Robinson, T.E. The ability of environmental context to facilitate psychomotor sensitization to amphetamine can be dissociated from its effect on acute drug responsiveness and on conditioned responding. *Neuropsychopharmacology*, 2001, 24, 680-690. [107]
35. Day, H.E.W., Badiani, A., Uslaner, J.M., Oates, M., Vittoz, N.M., Robinson, T.E., Watson, S.J. and Akil, H. Environmental novelty differentially affects amphetamine-induced *c-fos* mRNA expression in subregions of the bed nucleus of the stria terminalis and amygdala. *Journal of Neuroscience*, 2001, 21, 732-740 [132].
36. Samaha, A-N, Li, Y. and Robinson, T.E. The rate of intravenous cocaine administration determines susceptibility to sensitization. *Journal of Neuroscience*, 2002, 22, 3244-3250. [105]
37. Crombag, H., Jedynek, J., Redmond, K., Robinson, T.E. and Hope, B.T. Locomotor sensitization to cocaine is associated with increased Fos expression in the accumbens, but not in the caudate. *Behavioural Brain Research*, 2002, 136, 455-462. [103]
38. Kolb, B., Gorny, G., Söderpalm, A.H.V. and Robinson, T.E. Environmental complexity has different effects on the structure of neurons in the prefrontal cortex versus the parietal cortex or nucleus accumbens. *Synapse*, 2003, 48, 149-153. [174]
40. Badiani, A. and Robinson, T.E. Drug-induced neurobehavioral plasticity: role of environmental context. *Behavioural Pharmacology*, 2004, 15, 327-339. [177]
41. Kolb, B., Pellis, S. and Robinson, T.E. Plasticity and functions of the orbital frontal cortex. *Brain and Cognition* 2004, 55, 104-15. [163]

42. Samaha, A.-N., Mallet, N., Ferguson, S.M., Gonon, F. and Robinson, T.E. The rate of cocaine administration alters gene regulation and behavioural plasticity: implications for addiction. *Journal of Neuroscience*, 2004, 24, 6362-6370. [150]
43. Samaha, A.-N., Yau, W., Yang, P. and Robinson, T.E. Rapid delivery of nicotine promotes behavioural sensitization and alters its neurobiological impact. *Biological Psychiatry*, 2005, 57, 351-360. [106]
44. Uslaner, J.M., Acerbo, M.J., Jones, S.A. and Robinson, T.E. The attribution of incentive salience to a stimulus that signals an intravenous injection of cocaine. *Behavioural Brain Research*, 2006, 169, 320-324. [170]
45. Uslaner, J.M. and Robinson, T.E. Subthalamic nucleus lesions increase impulsive action and decrease impulsive choice - mediation by enhanced incentive motivation? *European Journal of Neuroscience*, 2006, 24, 2345-2354. [176]
46. Ferguson, S.M., Fasano, S., Yang, P., Brambilla, R. and Robinson, T.E. Knockout of ERK1 enhances cocaine-evoked immediate early gene expression and behavioral plasticity. *Neuropsychopharmacology*, 2006, 31, 2660-2668. [138]
47. Shou, M., Ferrario, C.R., Schultz, K.N., Robinson, T.E. and Kennedy, R.T. Monitoring of dopamine in vivo by microdialysis sampling and on-line CE-laser-induced fluorescence. *Analytical Chemistry*, 2006, 78, 6717-6725. [189]
48. Jedynak, J.P., Uslaner, J.M., Esteban, J.A. and Robinson, T.E. Methamphetamine-induced structural plasticity in the dorsal striatum. *European Journal of Neuroscience*, 2007, 25, 847-853. [185]
49. Briand, L.A., Flagel, S.B., Watson, S.M., Akil, H., Sarter, M. and Robinson, T.E. Persistent alterations in cognitive function and dopamine-related gene expression following extended (but not limited) access to self-administered cocaine. *Neuropsychopharmacology*, 2008, 33, 2969-2980. [163]
50. Yager, L.M. and Robinson, T.E. Cue-induced reinstatement of food seeking in rats that differ in their propensity to attribute incentive salience to food cues. *Behavioural Brain Research*, 2010, 214, 30-34. [120]
51. Lomanowska, A.M., Lovic, V., Rankine, M.J., Mooney, S.J., Robinson, T.E. and Kraemer, G.W. Inadequate early social experience increases the incentive salience of reward-related cues in adulthood. *Behavioural Brain Research*, 2011, 220, 91-99. [142]
52. Morrow, J.D., Maren, S. and Robinson, T.E. Individual variation in the propensity to attribute incentive salience to an appetitive cue predicts the propensity attribute motivational salience to an aversive cue. *Behavioural Brain Research*, 2011, 220, 238-243. [118]
53. Meyer, P.J., Ma, S.T. and Robinson, T.E. A cocaine cue is more preferred and evokes more frequency-modulated 50 kHz ultrasonic vocalizations in rats prone to attribute incentive salience to a food cue. *Psychopharmacology*, 2012, 219, 999-1009. [128]
55. Yager, L.M. and Robinson, T.E. A classically conditioned cocaine cue acquires greater control over motivated behavior in rats prone to attribute incentive salience to a food cue. *Psychopharmacology*, 2013, 226, 217-228. [164]
56. Robinson, M.J.F., Robinson, T.E. and Berridge, K.C., Incentive salience and the transition to addiction. In: *Biological Research on Addiction: Comprehensive Addictive Behaviors and Disorders*, 2013, Elsevier Inc., San Diego: Academic Press, pp. 391-399. [123]
57. Meyer, P.J., Cogan, E.S. and Robinson, T.E. The form of a conditioned stimulus influences the degree to which it acquires incentive motivational properties. *PLoS One*, 2014, 9(6): e98163. [143]
58. Fitzpatrick, C.J., Gopalakrishnan, S., Cogan, E.S., Yager, L.M., Meyer, P.J., Lovic, V., Saunders, B.T., Parker, C.C., Gonzales, N.M., Aryee, E., Flagel, S.B., Palmer, A.A., Robinson, T.E., Morrow, J.D. Variation in the form of Pavlovian conditioned approach behavior among outbred male Sprague Dawley rats from different vendors and colonies: sign-tracking vs. goal-tracking. *PLoS One*, 2013, 8(10): e75042. [167]
59. Lesaint, F., Sigaud, O., Flagel, S.B., Robinson, T.E., and Khamassi, M. Modeling individual differences in the form of Pavlovian conditioned approach responses: a dual learning systems approach with factored representations. *PLoS Computational Biology*, 2014, 10(2): e1003466. [118]
60. Parker, C.C., Hao, C., Flagel, S.B., Geurts, A.M., Richards, J.B., Robinson, T.E., Solberg Woods, L.C. and Palmer, A.A., Rats are the smart choice: Rationale for a renewed focus on rats in behavioral genetics. *Neuropharmacology*, 2014, 76, 250-258. [115]
61. Yager, L.M., Pitchers, K.K., Flagel, S.B. and Robinson, T.E. Individual variation in the motivational and neurobiological effects of an opioid cue. *Neuropsychopharmacology*, 2015, 40, 1269-1277 [136]
62. Pitchers, K.K., Flagel, S.B., O'Donnell, E.G., Solberg Woods, L.C., Sarter, M. and Robinson, T.E. Individual variation in the propensity to attribute incentive salience to a food cue: influence of sex. *Behavioural Brain Research*, 2015, 278, 462-469. [122]
63. Ahrens, A.M., Singer, B.F., Fitzpatrick, C.J., Morrow, J.D. and Robinson, T.E. Rats that sign-track are resistant to Pavlovian but not instrumental extinction. *Behavioural Brain Research*, 2016, 2015, 296, 418-430 [131]
64. Flagel, S.B. and Robinson, T.E. Neurobiological basis of individual variation in stimulus-reward learning. *Current Opinion in Behavioral Sciences*, 2017, 13, 178-185. PMID: PMC5486979 [159]
65. Singer, B.F., Fadanelli, M., Kawa, A.B. and Robinson, T.E. Are cocaine-seeking "habits" necessary for the development of addiction-like behavior in rats? *Journal of Neuroscience*, 2018, 38(1), 60-73. [133]

66. Kawa, A.B. and Robinson, T.E. Sex differences in incentive-sensitization produced by intermittent access cocaine self-administration. *Psychopharmacology*, 2019, 236, 625-639. [101]
67. Samaha, A-N., Khoo, S. S-Y., Ferrario, C.R. and Robinson, T.E. Dopamine “ups and downs” in addiction revisited. *Trends in Neuroscience*, 2021, 44, 516-526. [100]
68. Gileta A.F., Fitzpatrick C.J., Chitre A., St. Pierre, C.L., Joyce, E.V., Maguire, R.J., McLoed, A.M., Gonzales, N.M., Williams, A.E., Morrow, J.D., Robinson, T.E., Fligel, S.B. and Palmer, A.A. Genetic characterization of outbred Sprague Dawley rats and utility for genome-wide association studies. *PLOS Genetics*, 2022, 18, 1-29. [101]
69. Robinson, T.E. and Berridge, K.C. The incentive-sensitization theory of addiction 30 years on. *Annual Review of Psychology*, 2025, 76, 29-58. [151]

## Papers with 200 or more citations

1. Vanderwolf, C.H., Kramis, R.C., and Robinson, T.E. Hippocampal electrical activity during waking behavior and sleep: Analyses using centrally acting drugs. *Ciba Foundation Symposium 58: Functions of the Septo-Hippocampal System*, Amsterdam: Elsevier, 1978, pp. 199-221. [238]
2. Robinson, T.E. Hippocampal rhythmic slow activity (RSA; theta): A critical analysis of selected studies and discussion of possible species-differences. *Brain Research Reviews*, 1980, 2, 69-101. [239]
3. Becker, J.B., Robinson, T.E., and Lorenz, K.A. Sex differences and estrous cycle variations in amphetamine-elicited rotational behavior. *European Journal of Pharmacology*, 1982, 80, 65-72. [347]
4. Robinson, T.E., Becker, J.B., and Presty, S.K. Long-term facilitation of amphetamine-induced rotational behavior and striatal dopamine release produced by a single exposure to amphetamine: Sex differences. *Brain Research*, 1982, 253, 231-241. [341]
5. Robinson, T.E., and Becker, J.B. Behavioral sensitization is accompanied by an enhancement in amphetamine-stimulated dopamine release from striatal tissue *in vitro*. *European J. Pharmacology*, 1982, 85, 253-254. [279]
6. Robinson, T.E. Behavioral sensitization: characterization of enduring changes in rotational behavior produced by intermittent injections of amphetamine in male and female rats. *Psychopharmacology*, 1984, 84, 466-475. [307]
7. Castañeda, E., Whishaw, I.Q. and Robinson, T.E. Changes in striatal dopamine neurotransmission assessed with microdialysis following recovery from a bilateral 6-OHDA lesion: variation as a function of lesion size. *Journal of Neuroscience*, 1990, 10, 1847-1854. [236]
8. Paulson, P.E. and Robinson, T.E. Amphetamine-induced time-dependent sensitization of dopamine neurotransmission in the dorsal and ventral striatum: a microdialysis study in behaving rats. *Synapse*, 1995, 19, 56-65. [377]
9. Badiani, A., Anagnostaras, S. and Robinson, T.E. The development of sensitization to the psychomotor stimulant effects of amphetamine is enhanced in a novel environment. *Psychopharmacology*, 1995, 117, 443-452. [219]
10. Berridge, K.C. and Robinson, T.E. The mind of an addicted brain: neural sensitization of wanting versus liking. *Current Directions in Psychological Science*, 1995, 4, 71-76. [395]
11. Badiani, A., Browman, K.E. and Robinson, T.E. Influence of novel versus home environments on sensitization to the psychomotor stimulant effects of cocaine and amphetamine. *Brain Research*, 1995, 674, 291-298. [283]
12. Badiani, A., Oates, M., Day, H.E.W., Watson, S.E., Akil, H. and Robinson, T.E. Amphetamine-induced behavior, dopamine release and *c-fos* mRNA expression: modulation by environmental novelty. *Journal of Neuroscience*, 1998, 18, 10579-10593. [289]
13. Robinson, T.E., Browman, K.E., Crombag, H.S. and Badiani, A. Modulation of the induction or expression of psychostimulant sensitization by the circumstances surrounding drug administration. *Neuroscience and Biobehavioral Reviews*, 1998, 22, 347-354. [300]
14. Robinson, T.E. and Kolb, B. Morphine alters the structure of neurons in the nucleus accumbens and neocortex of rats. *Synapse*, 1999, 33, 160-162. [347]
15. Robinson, T.E., Gorny, G., Savage, V.R. and Kolb, B. Widespread but regionally-specific effects of experimenter- versus self-administered morphine on dendritic spines in the nucleus accumbens, hippocampus and neocortex of adult rats. *Synapse*, 2002, 46, 271-279. [286]
16. Anagnostaras, S.G., Schallert, T. and Robinson, T.E. Memory process governing amphetamine-induced psychomotor sensitization. *Neuropsychopharmacology*, 2002, 26, 703-715. [210]
17. Kolb, B., Gorny, G., Li, Y., Samaha, A-N. and Robinson, T.E. Amphetamine or cocaine limits the ability of later experience to promote structural plasticity in the neocortex and nucleus accumbens. *Proceedings of the National Academy of Sciences (USA)*, 2003, 100, 10523-10528. [272]

18. Li, Y., Kolb, B. and Robinson, T.E. The location of persistent amphetamine-induced changes in the density of dendritic spines on medium spiny neurons in the nucleus accumbens and caudate-putamen. *Neuropsychopharmacology*, 2003, 28, 1082-1085. [221]
19. Kolb, B., Gibb, R. and Robinson, T.E. Brain plasticity and behavior. *Current Directions Psychol Science*, 2003, 12, 1-5. [370]
20. Li, Y., Acerbo, M.J. and Robinson, T.E. The induction of behavioral sensitization is associated with cocaine-induced structural plasticity in the core (but not shell) of the nucleus accumbens. *European Journal of Neuroscience*, 2004, 20, 1647-1654. [237]
21. Wei, Q., Lu, X.Y., Liu, L., Schafer, G., Shieh, K-R., Burke, S., Robinson, T.E., Watson, S., Seasholtz, A., Akil, H. Glucocorticoid receptor overexpression in forebrain: a mouse model of increased emotional lability. *Proceedings of the National Academy of Sciences (USA)*, 2004, 101, 11851-11856. [314]
22. Dong, Y., Saal, D., Thomas, M., Faust, R., Bonci, A., Robinson, T.E. and Malenka, R.C. Cocaine-induced potentiation of synaptic strength in dopamine neurons: behavioral correlates in GluRA(-/-) mice. *Proceedings of the National Academy of Sciences (USA)*, 2004, 101, 14282-14287. [211]
23. Ferrario, C.R., Gorny, G., Crombag, H.S., Li, Y., Kolb, B. and Robinson, T.E. Neural and behavioral plasticity associated with the transition from controlled to escalated cocaine use. *Biological Psychiatry*, 2005, 58, 751-759. [349]
24. Samaha, A-N. and Robinson, T.E. Why does the rapid delivery of drugs to the brain promote addiction? *Trends in Pharmacological Sciences*, 2005, 26, 82-87. [275]
25. Crombag, H.C., Gorny, G., Li, Y., Kolb, B., and Robinson, T.E. Opposite effects of amphetamine self-administration experience on dendritic spines in the medial and orbital frontal cortex. *Cerebral Cortex*, 2005, 15, 341-348. [235]
26. Flagel, S.B., Watson, S.M., Akil, H. and Robinson, T.E. Individual differences in the attribution of incentive salience to a reward-related cue: influence on cocaine sensitization. *Behavioural Brain Research*, 2008, 186, 48-56. [270]
27. Saunders, B.T. and Robinson, T.E. A cocaine cue acts as an incentive stimulus in some, but not others: implications for addiction. *Biological Psychiatry*, 2010, 67, 730-736. [302]
28. Lovic, V., Saunders, B.T., Yager, L.M. and Robinson, T.E. Rats prone to attribute incentive salience to reward cues are also prone to impulsive action. *Behavioural Brain Research*, 2011, 223, 255-261. [248]
29. Flagel, S.B., Cameron, C.M., Pickup, K.N., Watson, S.J., Akil, H. and Robinson, T.E. A food predictive cue must be attributed with incentive salience for it to induce c-fos mRNA in cortico-striatal-thalamic brain regions. *Neuroscience*, 2011, 196, 80-96. [228]
30. Saunders, B.T. and Robinson, T.E. Individual variation in the motivational properties of cocaine. *Neuropsychopharmacology*, 2011, 36, 1668-1676. [215]
31. Saunders, B.T. and Robinson, T.E. Individual variation in resisting temptation: implications for addiction. *Neuroscience and Biobehavioral Reviews*, 2013, 37, 1955-1975. [229]
32. Saunders, B.T., Yager, L.M. and Robinson, T.E. Cue-evoked cocaine “craving”: role of dopamine in the accumbens core. *Journal of Neuroscience*, 2013, 33, 13989-14000. [216]
33. Paolone, G., Angelakos, C.C., Meyer, P.J., Robinson, T.E. and Sarter, M. Cholinergic control over attention in rats prone to attribute incentive salience to reward cues. *Journal of Neuroscience*, 2013, 33, 8321-8335. [206]
34. Kawa, A.B., Bentzley, B.S. and Robinson, T.E. Less is more: prolonged intermittent access cocaine self-administration produces incentive-sensitization and addiction-like behavior. *Psychopharmacology*, 2016, 233, 3587-3602. [225]

### Papers with 400 or more citations

1. Vanderwolf, C.H., and Robinson, T.E. Reticulo-cortical activity and behavior: A critique of the arousal theory and a new synthesis. *Behavioral and Brain Sciences*, 1981, 4, 459-476. [452]
2. Robinson, T.E. and Whishaw, I.Q. Normalization of extracellular dopamine in striatum following recovery from a partial unilateral 6-OHDA lesion of the substantia nigra: a microdialysis study in freely moving rats. *Brain Research*, 1988, 450, 209-224. [576]
3. Robinson, T.E., Jurson, P., Bennett, J. and Bentgen, K. Persistent sensitization of dopamine neurotransmission in ventral striatum (nucleus accumbens) produced by prior experience with (+)-amphetamine: a microdialysis study in freely moving rats. *Brain Research*, 1988, 462, 211-222. [572]
4. Berridge, K.C., Venier, I.L. and Robinson, T.E. Taste reactivity analysis of 6-hydroxydopamine-induced aphagia: implications for arousal and anhedonia hypotheses of dopamine function. *Behavioral Neuroscience*, 1989, 103, 36-45. [443]
5. Paulson, P.E., Camp, D.M. and Robinson, T.E. Time course of transient behavioral depression and persistent behavioral sensitization in relation to regional brain monoamine concentrations during amphetamine withdrawal in rats. *Psychopharmacology*, 1991, 103, 480-492. [555]

6. Anagnostaras, S. and Robinson, T.E. Sensitization to the psychomotor stimulant effects of amphetamine: modulation by associative learning. *Behavioral Neuroscience*, 1996, *110*, 1397-1414. [433]
7. Hu, M., Crombag, H.S., Jackson, L.R., Robinson, T.E. and Becker, J.B. Biological basis of sex differences in the propensity to self-administer cocaine. *Neuropsychopharmacology*, 2004, *29*, 81-85. [404]
8. Jackson, L.R., Robinson, T.E. and Becker, J.B. Sex differences and hormonal influences on acquisition of cocaine self-administration in rats. *Neuropsychopharmacology*, 2006, *31*, 129-138. [401]
9. Flagel, S.B., Watson, S.M., Robinson, T.E. and Akil, H. Individual differences in the propensity to approach signals vs. goals promote different adaptations in the dopamine system. *Psychopharmacology*, 2007, *191*, 599-607. [420]
10. Flagel, S.B., Akil, H. and Robinson, T.E. Individual differences in the attribution of incentive salience to reward-related cues: implications for addiction. *Neuropharmacology*, 2009, *56* (Suppl. 1), 139-148. [630]
11. Robinson, T.E. and Flagel, S.B. Dissociating the predictive and incentive motivational properties of reward-related cues through the study of individual differences. *Biological Psychiatry*, 2009, *65*, 869-873. [470]
12. Flagel, S.B., Robinson, T.E., Clark, J.J., Clinton, S.M., Watson, S.M., Seeman, P., Phillips, P.E.M. and Akil, H. An animal model of genetic vulnerability to behavioral disinhibition and responsiveness to reward-related cues: implications for addiction. *Neuropsychopharmacology*, 2010, *35*, 388-400. [465]
13. Robinson, T.E., Gorny, G., Mitton, E. and Kolb, B. Cocaine self-administration alters the morphology of dendrites and dendritic spines in the nucleus accumbens and neocortex. *Synapse*, 2001, *39*, 257-266. [542]
14. Meyer, P.J., Lovic, V., Saunders, B.T., Yager, L.M., Flagel, S.B., Morrow, J.D. and Robinson, T.E. Quantifying individual variation in the propensity to attribute incentive salience to reward cues. *PLoS ONE*, 2012, *7*(6): e38987. [429]
15. Saunders, B.T. and Robinson, T.E. The role of dopamine in the accumbens core in the expression of Pavlovian conditioned responses. *European Journal of Neuroscience*, 2012, *36*, 2521-2532. [402]
16. Robinson, T.E., Yager, L.M., Cogan, E.S. and Saunders, B.T. On the motivational properties of reward cues: individual differences. *Neuropharmacology*, 2014, *76*, 450-459. (NIDA 40th Anniversary Issue). [440]

### Papers with 800 or more citations

1. Robinson, T.E. and Kolb, B. Persistent structural modifications in nucleus accumbens and prefrontal cortex neurons produced by prior experience with amphetamine. *Journal of Neuroscience*, 1997, *17*, 8491-8497. [916]
2. Robinson, T.E. and Kolb, B. Alterations in the morphology of dendrites and dendritic spines in the nucleus accumbens and prefrontal cortex following repeated treatment with amphetamine or cocaine. *European Journal of Neuroscience*, 1999, *11*, 1598-1604. [982]
3. Robinson, T.E. and Berridge, K.C. Addiction. *Annual Review of Psychology*. 2003, *54*, 25-53. [1,240]  
(This paper is not captured by Google Scholar; citations based on Web of Science)
4. Robinson, T.E. and Kolb, B. Structural plasticity associated with exposure to drugs of abuse. *Neuropharmacology*, 2004, *47* (S1), 33-46. [1,431]
5. Flagel, S.B., Clark, J.J., Robinson, T.E., Mayo, I., Czuj, A., Willuhn, I., Akers, C.A., Clinton, S.M., Phillips, P.E.M. and Akil, H. A selective role for dopamine in stimulus-reward learning. *Nature*, 2011, *469*, 53-59. [1,273]

### Papers with 1,600 or more citations

1. Robinson, T.E. and Becker, J.B. Enduring changes in brain and behavior produced by chronic amphetamine administration: a review and evaluation of animal models of amphetamine psychosis. *Brain Research Reviews*, 1986, *11*, 157-198. [2,687]
2. Robinson, T.E. and Berridge, K.C. The psychology and neurobiology of addiction: an incentive-sensitization view. *Addiction*, 2000, *95*, Suppl. 2, S91-S117. [1,998]
3. Robinson, T.E. and Berridge, K.C. Incentive-sensitization and addiction. *Addiction*, 2001, *96*, 103-114. [2,002]
4. Berridge, K.C. and Robinson, T.E. Parsing reward. *Trends in Neurosciences*, 2003, *26*, 507-513. [2,948]
5. Robinson, T.E. and Berridge, K.C. The incentive-sensitization theory of addiction: some current issues. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 2008, *363*, 3137-3146. [2,256]
6. Berridge, K.C., Robinson, T.E. and Aldridge, W.C. Dissecting components of reward: 'liking', 'wanting', and learning. *Current Opinion in Pharmacology*, 2009, *9*, 1-9. [2,585]

7. Berridge, K.C. and Robinson, T.E. Liking, wanting and the incentive-sensitization theory of addiction. *American Psychologist*, 2016, 71(8), 670-679. [1,860]

### **Papers with 5,000 or more citations**

1. Robinson, T.E. and Berridge, K.C. The neural basis of drug craving: an incentive-sensitization theory of addiction. *Brain Research Reviews*, 1993, 18, 247-291. [9,867].

[This paper has been ranked as 15th of the 100 most cited articles in Neuroscience (total; 26/100 normalized) - Yeung, AWK, TK Goto, and WK Leung. At the Leading Front of Neuroscience: A Bibliometric Study of the 100 Most-Cited Articles. *Frontiers in human neuroscience* 11 (2017): doi:10.3389/fnhum.2017.00363.

In addition, in 2021 this paper was listed as the most cited paper in the field of addiction research – Zurian, J.V.C., Canigral, F.J.V., Cogollos, L.C. and Aleixandre-Benavent, R. The most 100 cited papers in addiction research on cannabis, heroin, cocaine and psychostimulants. A bibliometric cross-sectional analysis. *Drug and Alcohol Dependence*, 221 (2021) 108616.

<https://doi.org/10.1016/j.drugalcdep.2021.108616>. Note this analysis uses WoS data, not Google Scholar, so the total citation counts differ.]

2. Berridge, K.C. and Robinson, T.E. What is the role of dopamine in reward: hedonic impact, reward learning or incentive salience. *Brain Research Reviews*, 1998, 28, 308-367. [5,985]