
CURRICULUM VITAE

Warren K. Bickel, Ph.D.

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CONTACT INFORMATION

Office:

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Personal:

Place of Birth: East Meadow, NY

EDUCATION AND TRAINING

State University of New York at New Paltz, New York (1974-1978)

Major: Psychology

Degree: B.A. (Honors)

University of Kansas, Lawrence, Kansas (1979-1981)

Major: Developmental and Child Psychology

Degree: M.A.

University of Kansas, Lawrence, Kansas (1981-1983)

Major: Developmental and Child Psychology

Degree: Ph.D.

Postdoctoral Fellow, Biological Sciences Research Center (1983-1984)

University of North Carolina School of Medicine, Chapel Hill, North Carolina

Postdoctoral Fellow, Department of Psychiatry (1984-1985)

Johns Hopkins University School of Medicine, Baltimore, Maryland

Additional Training:

Visiting Fellowship in Transcranial Magnetic Stimulation (2011)

Duke University, Department of Psychiatry and Behavioral Sciences

PROFESSIONAL APPOINTMENTS

- Albert Einstein College of Medicine of Yeshiva University - New York, New York
 - Assistant Director for Clinical Research, Division of Substance Abuse (1985-1987)
 - Assistant Professor, Department of Psychiatry (1985-1987)
- University of Vermont College of Medicine - Burlington, Vermont
 - Research Assistant Professor, Departments of Psychiatry and Psychology (1987-1989)
 - Assistant Professor, Departments of Psychiatry and Psychology (1989-1992)
 - Associate Professor, Departments of Psychiatry and Psychology (1992-1997)
 - Vice-Chair for Research, Department of Psychiatry (1997-2001)
 - Professor, Departments of Psychiatry and Psychology (1997-2004)
 - Interim-Chair, Department of Psychiatry (2001-2004)
 - Inaugural Director, Chittenden Center, An Addictions Treatment Program; Program of the Howard Center for Human Services in Alliance with Fletcher Allen Health Care and the University of Vermont's College of Medicine (2001-2004)
- University of Arkansas for Medical Sciences
 - Wilbur Mills Professor of Alcoholism and Drug Abuse Prevention, Department of Psychiatry (2004-2011)
 - Director, Arkansas Center for Addiction Research, College of Medicine (2004-2011)
 - Director, Interdisciplinary Tobacco Program, College of Public Health (2004-2011)
- Fralin Biomedical Research Institute at VTC, Virginia Tech
 - Director, Addiction Recovery Research Center (2011-present)
 - Professor, Department of Psychology, Virginia Tech (2011-present)
 - Professor, Department of Psychiatry, Virginia Tech Carilion School of Medicine (2011-present)
 - Faculty-Virginia Tech Faculty of Health Sciences (2013-present)
 - Inaugural Behavioral Health Research Endowed Professor (April 2016)
 - Co-Director, Center for Transformative Research on Health Behaviors (2017)
 - Affiliate Faculty; Human Nutrition, Foods, and Exercise; Virginia Tech (2019)
 - Director, Center for Transformative Research on Health Behaviors (2020)

Additional Professional Accomplishments:

- Founder and Director, International Quit & Recovery Registry, Addiction Recovery Research Center, Virginia Tech Carilion Research Institute, Virginia Tech (2011)
- Co-Founder, Transdisease Processes Special Interest Group, Society of Behavioral Medicine (2017)

AWARDS AND TRAINING FELLOWSHIPS

- New York State Regents Scholarship Award (1974)
- Gerald Lazar Memorial Award for Outstanding Senior, Psychology Department, State University of New York at New Paltz (1978)
- Outstanding Senior Award, State University of New York at New Paltz (1978)
- Graduate Student Travel Award, Office of Research and Graduate Studies, University of Kansas, Lawrence, Kansas (1980)
- Pre-doctoral Trainee, National Institute of Child Health and Development, Department of Human Development, University of Kansas, Lawrence, Kansas (1981-1983)
- Postdoctoral Fellow, Interdisciplinary Research Fellowships in Mental Retardation, Autism, and other Developmental Disabilities. National Institute of Child Health and Development. Biological Sciences Research Center, University of North Carolina School of Medicine, Chapel Hill, North Carolina (1983-1984)
- Postdoctoral Fellow in Human Behavioral Pharmacology of Substance Abuse, National Institute of Drug Abuse. Behavioral Pharmacology Research Unit, Division of Behavioral Biology, Department of Psychiatry and Behavioral Sciences, The Johns Hopkins University of Medicine, Baltimore, Maryland (1984-1985)
- Sixth recipient of the Young Psychopharmacologist Award, Division of Psychopharmacology (28), American Psychological Association (1988)

- Ninth recipient of the Joseph Cochin Young Investigator Award from the College on Problems of Drug Dependence (1995)
- MERIT (Method to Extend Research in Time) Award recipient from the National Institute on Drug Abuse, National Institute of Health (1997-2007)
- University Scholar Award, University of Vermont, Burlington, Vermont (2000)
- Arkansas Psychological Association (ArPA) Honors for Outstanding Contribution – Researcher of the Year (2006)
- 2008-2009 Dean’s Distinguished Faculty Lectureship Award, College of Medicine, University of Arkansas for Medical Sciences (2009)
- Fellow, Association for Behavior Analysis International (2011)
- Twenty-fifth Recipient of the APA International Don Hake Translational Research Distinguished Contributions to Basic Research Award (2011)
- Distinguished Scientist Lecturer for APA selected by the APA Science Directorate and Board of Scientific Affairs (2012)
- Thirteenth recipient of the Brady-Schuster Award for Outstanding Behavioral Science Research in Psychopharmacology and Substance Abuse, Division 28 APA (2012)
- Virginia Tech Scholar of the Week Recognition, Weeks of May 14 and May 21 (2012)
- Recognized for Service as Past President - Division 50, Society of Addiction Psychology, American Psychological Association (2013)
- Recipient of the Distinguished Alumni Award. University of Kansas (2014)
- Fellow, Academy of Behavioral Medicine Research (2014)
- Gave the opening keynote address at the 2015 Annual Academy of Behavioral Medicine Research Meeting.
- Selected as one of the 2016 Nebraska Symposium on Motivation speakers.
- Journal of the Experimental Analysis of Behavior – Joseph V. Brady Significant Research Contribution Award, May 2016, for “Changing Delay Discounting in the light of the competing neurobehavioral decision systems theory: A review” (Koffarnus, Jarmolowicz, Mueller, & Bickel, 2013). This award is given to the most highly cited article from the previous three years, not including self-citations.
- Recipient of the 2016 Nathan B. Eddy Award from the College on Problems of Drug Dependence.
- Recipient of the Scientific Translation Award from the Society for the Advancement of Behavior Analysis (SABA). (2019)

PROFESSIONAL SERVICE AND AFFILIATIONS

University Service:

- Member, Einstein Award Committee, Albert Einstein College of Medicine of Yeshiva University (1987)
- Representative, Department of Psychiatry to Faculty Senate, University of Vermont (1987-1990)
- Interview of candidates for residency training in Psychiatry, University of Vermont (1987-2004)
- Co-Director of the Human Behavioral Pharmacology Laboratory, Department of Psychiatry, University of Vermont (1987-2004)
- Member, Douglas Planning Committee, Department of Psychiatry, University of Vermont (1990-1993)
- Co-Director, Institutional Training Program in the Behavioral Pharmacology of Human Drug Dependence, University of Vermont (1990-2004)
- Co-Director, University of Vermont Substance Abuse Treatment Center, Department of Psychiatry, University of Vermont (1990-2004)

- Member, Residency Training Committee, Department of Psychiatry, University of Vermont (1991-97)
- Member, Graduate Education Committee, College of Medicine, University of Vermont (1996-2004)
- Member, Search Committee for new Chair, Department of Psychiatry, University of Vermont (2000-2001)
- Chair, Research Committee, College of Medicine, University of Vermont (1999-2003)
- Member, Dean's Executive Committee, College of Public Health, University of Arkansas for Medical Sciences (2004-2011) Member, Steering Committee, Department of Psychiatry, College of Medicine, University of Arkansas for Medical Sciences (2004-2011)
- Member, NIH Funding Crisis Advisory Committee, College of Medicine, University of Arkansas for Medical Sciences (2006)
- Member, Research Council, College of Medicine, University of Arkansas for Medical Sciences (2006-2011)
- Chair, IT Research Steering Committee, College of Medicine, University of Arkansas for Medical Sciences (2006-2011)
- Member, International Society for the Prevention of Tobacco Induced Diseases (ISPTID) Scientific Planning Committee, University of Arkansas for Medical Sciences (2006-2007)
- Member, Internal Advisory Group, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2007-2009)
- Member, Novel Methodologies Group, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2007-2009)
- Member, Behavior Research Group, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2007-2009)
- Member, Chair, Radiology Search Committee, College of Medicine, University of Arkansas for Medical Sciences (2007-2008)
- Member, Executive Steering Committee, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2008-2011)
- Member, Cancer Institute Senior Leadership Committee, Winthrop P. Rockefeller Cancer Institute, University of Arkansas for Medical Sciences (2008-2011)
- Co-Director, Behavioral Oncology, Analytical Technologies, and Science (BOATS) Program, Winthrop P. Rockefeller Cancer Institute, University of Arkansas for Medical Sciences (2008-2011)
- Member, Internal Advisory Committee of the Center for Translational Neuroscience, University of Arkansas for Medical Sciences (2008-2011)
- Director, Behavior Research Group, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2009-2011)
- Member, Cabinet, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2009-2011)
- Member, Planning Committee, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2009-2011)
- Member, Rainmaker Committee, Clinical and Translational Science Award, Center for Clinical and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2009-2011)
- Member, Committee on Clinical Research, University of Arkansas for Medical Sciences (2009-2011)
- Member, Executive Committee, Psychiatric Research Institute, University of Arkansas for Medical Sciences (2009-2011)
- Chair, Behavioral Research Expert Team, Clinical and Translational Science Award, Center for Clinical

and Translational Research, College of Medicine, University of Arkansas for Medical Sciences (2009-2011)

- Co-Chair, Psychiatric Research Institute Research Council, University of Arkansas for Medical Sciences (2009- 2011)
- Member, Translational Biology, Medicine & Health Graduate Program Working Group and Co-Chair of the Brain and Cognitive Sciences Track Committee, Virginia Tech and Virginia Tech Carilion Research Institute (2013)
- Member, Search Committee for Vice President of the Research Division, Virginia Tech (2014-2015)
- Member, “Envisioning Virginia Tech – Beyond Boundaries” Discovering New Funding Models Working Group, Virginia Tech (2015-2016)
- Member, VTCRI Review Committee (2016-2020)
- Member, Adaptive Brain and Developmental Health Steering Committee, Virginia Tech – Beyond Boundaries Destination Areas (2016)
- Introductory Comments for Investiture of Dr. Stephen Higgins Endowed Professorship, University of Vermont (March 30, 2016)
- Member, VTCRI Distinguished Public Lecture Series Selection Committee for 2016-17
- Member, Virginia Tech Carilion Master Plan Subcommittee (2016)
- Member, VT Destination Area Stakeholder Committee – Adaptive Brain and Behavior (2017-18)
- Member, VTC Health Sciences and Technology Steering Committee (2017)
- Chair, VTCRI Distinguished Public Lecture Series Selection Committee (2018-19)

Service to National Organizations:

- Reviewer, Special Review Committee, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration’s Small Business Innovation Research Grant Program (1986)
- Special Review Committee, AIDS Community Evaluation Contract Review, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1987)
- Reviewer, Special Review Committee, Drug Abuse Clinical and Behavioral Research Review Committee, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1987)
- Co-Program Chair, Behavioral Pharmacology and Toxicology Area, Association for Behavior Analysis (1987- 1990)
- Reviewer, Special Review Committee, AIDS, Central Data Coordination for New Grants/Contracts, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1988)
- Reviewer, Special Review Committee, Drug Abuse Clinical and Behavioral Research Review Committee, National Institute on Drug Abuse Alcohol Drug Abuse and Mental Health Administration (1988)
- Program Chair, Psychopharmacology Division (Division 28) American Psychological Association (1989-1991)
- Consultant, Caffeine as a Drug of Abuse, Coffee Beverage Association (1989)
- Member, Special Review Committee (Review of Treatment Research Units) and Drug Abuse Clinical and Behavioral Research Committee, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1989)
- External Reviewer, Scientist Promotion Committee, Addiction Research Center, National Institute on Drug Abuse (1990)
- Special Review Consultant, Drug Abuse Clinical and Behavioral Review Committee, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1990)
- Special Review Consultant, Treatment Evaluation Center Award, National Institute on Drug Abuse, Alcohol Drug Abuse and Mental Health Administration (1991)
- Co-organizer, Society for the Quantitative Analysis of Behavior Annual Meeting, Chicago, Illinois (1993)

- Special Review Consultant, Drug Abuse Research Centers, National Institute on Drug Abuse, National Institute of Health (1993)
- Membership Chair, Psychopharmacology and Substance Abuse Division, (Division 28), American Psychological Association (1991-1994)
- Member, Awards Committee, Division of the Experimental Analysis of Behavior (Division 25), American Psychological Association (1993)
- Member, Education and Training Committee, Division on Addictions (Division 50), American Psychological Association (1994)
- Special Review Consultant, National Institute on Drug Abuse, National Institute of Health (1994)
- Reviewer, Cooperative Studies Program, Department of Veterans Affairs (1995)
- Review Consultant, Center Site Visit, National Institute on Drug Abuse, National Institute of Health (1995)
- Special Review Consultant, Basic Behavioral Review Committee, National Institute on Drug Abuse, National Institute of Health (1996)
- Ad Hoc member, Center Review Committee, National Institute on Drug Abuse, National Institute of Health (1996)
- Special Review Consultant, Special Review Committee, National Institute on Drug Abuse, National Institute of Health (1996)
- Member, Drug Policy Task Force, College on Problems of Drug Dependence (1996)
- Member of Board of Directors, College on Problems of Drug Dependence (1997-2001)
- Liaison to College on Problems of Drug Dependence, American Psychological Association (1997)
- Member of Policy Panel on Alternative Nicotine Delivery Systems, American Society of Addiction Medicine (1997)
- Member, Publication Committee, College on Problems of Drug Dependence (1997-2001)
- Member, Public Policy Committee, College on Problems of Drug Dependence (1997-1998)
- Special Review Chairman and Consultant, Special Emphasis Panel, National Institute on Drug Abuse, National Institute of Health (1997)
- Special Review Consultant, Center Site Visit, National Institute on Drug Abuse, National Institute of Health (1997)
- Member, Tobacco Policy Task Force, College on Problems of Drug Dependence (1997)
- Chair, Public Policy Committee, College on Problems of Drug Dependence (1998-2000)
- Member, Behavioral and Social Sciences Review Integration Panel II, National Institutes of Health (1998)
- Special Review Consultant, Center Site Visit, National Institute on Drug Abuse, National Institute of Health (1999)
- Member, Pharmacological Treatment Programs Study Committee, Legislative Council, Montpelier, VT (1999)
- Member, Opiate Addiction Treatment Advisory Committee, Vermont Department of Health (2000)
- Founding Member, International Association of Addiction Editors (2000)
- President-elect, Division of Psychopharmacology & Substance Abuse (Div. 28) American Psychological Association (2000)
- President, Division of Psychopharmacology & Substance Abuse (Div. 28) American Psychological Association (2001)
- Past President, Division of Psychopharmacology & Substance Abuse (Div. 28) American Psychological Association (2002)
- Testify before U.S. Congress, Appropriations, House of Representatives, Labor, HHS, Subcommittee (2002)
- Member, Publication Committee, College on Problems of Drug Dependence (2002)
- Public Policy Officer, College on Problems of Drug Dependence (2000-2002)
- Advisor, Clinical Trials Network (CTN) Ad Hoc Oversight Board for the Acting Director of NIDA (2002)
- President, Division of Psychopharmacology & Substance Abuse (Div. 28) American Psychological Association (2002)

- Service Member, Prescription Abuse among Youth Scientific Advisory Board (SAB), Purdue Pharma L.P. (2002)
- Member, External Scientific Advisor for The Shriver Center Behavioral Technology Group (2003)
- Reviewer, National Academy of Science, National Research Council's report; Immunotherapies and sustained-release formulations for treating drug addiction: Behavioral, ethical, legal and social implications (2003)
- President-Elect, College on Problems of Drug Dependence (2003-2004)
- President, College on Problems of Drug Dependence (2004-2005)
- Past President, College on Problems of Drug Dependence (2005-2006)
- Member, NIH National Research Advisory Council on Drug Abuse (2006-2009)
- Consultant, Drug Abuse Subcommittee, Drug Safety and Risk Management Advisory Committee, Center for Drug Evaluation and Research, Food and Drug Administration (2008-2011)
- Advocate, American Psychological Association's Fifth Annual Science Leadership Conference (2009)
- PhenX Substance Abuse and Addiction Scientific Panel Membership (2011)
- Reviewer, National Institute of Health Special Review for OppNet Applications on Self-Regulation (2011)
- President-elect, Society of Addiction Psychology (Div. 50), American Psychological Association (2010-2011)
- President, Society of Addiction Psychology (Div. 50), American Psychological Association (2011-2012)
- Past President, Society of Addiction Psychology (Div. 50), American Psychological Association (2012- 2013)
- Member, Tobacco Products Scientific Advisory Committee, Food and Drug Administration (2013-2017)
- Co-chair, NIH Science of Behavior Change (SOBC) Harnessing Neuroplasticity for Behavior Change. Bethesda, MD. (2013)
- APA Science Directorate Invitation to Meet with Your Member of Congress (2013)
- Chair, NIH Science of Behavior Change (SOBC) Expert Review Panel. (2014)
- Member, FDA Neurological Devices Panel (2014)
- Invited participant, NIH/OppNet Conversations on Self-Regulation and Health: Basic, Translational and Clinical Perspectives. American Psychological Association Annual Convention. Washington, DC (2014)
- Met with Congressman Bob Goodlatte as APA Stand for Science representative (2014)
- Invited reviewer, National Cancer Institute Omnibus Grant Review Meeting (2015)
- Member, Editorial Search Committee, *Experimental and Clinical Psychopharmacology* (2015-16)
- Invited and served as a nominator for the MacArthur Fellows Program (2016)

Membership in Professional Societies:

- Fellow, American Psychological Association (1984)
- Fellow, Division 25, Experimental Analysis of Behavior, American Psychological Association (1992)
- Fellow, Division 28, Psychopharmacology and Substance Abuse, American Psychological Association (1992)
- Fellow, Division 3, Experimental Psychology, American Psychological Association (2003)
- Member, Division 6, Behavioral Neuroscience and Comparative Psychology, American Psychological Association (2004)
- Fellow, Division 6, Behavioral Neuroscience and Comparative Psychology, American Psychological Association (2005)
- Fellow, Association for Behavior Analysis (2005)
- Fellow, College on Problems of Drug Dependence (2006-present)
- Fellow, Division 50, Division on Addictions, American Psychological Association (2006)
- Member, Behavioral Pharmacology Society (2006)
- Member, Organization for Human Brain Mapping (2008)
- Member, Association for Behavior Analysis International (2009-present)
- Member, Society for the Advancement of Behavior Analysis (2009)

- Member, Society for Neuroscience (2009)
- Who's Who in Science and Engineering (2009)
- Member, American Association for Behavior Therapy (2009)
- Member, Entertainment Software & Cognitive Neurotherapeutics Society (2013)
- Member, Association for Psychological Science (2013)
- Member, Society for Neuroscience (2013)
- Member, International Society for Research on Impulsivity (2013)
- Member, Research Society on Alcoholism (2014-present)
- Member, Academy of Behavioral Medicine Research (2015-present)
- Member, Society of Behavioral Medicine (2017)
- Member, Society for Research on Nicotine and Tobacco (2017)
- Fellow, Association for Psychological Science (2017)
- Member, The Obesity Society (2018)

Editorial Activities:

- Editor-in-Chief, *Experimental and Clinical Psychopharmacology* (1999-2005)
- Associate Editor, Special Issue: "Experimental manipulations of delay discounting and related processes," *Journal of the Experimental Analysis of Behavior* (2014)
- Member, Editorial Board, *Psychology of Addictive Behaviors* (2014-present)
- Member, Editorial Board, *Current Addiction Reports* (Springer) (publication to begin in 2014)
- Field Editor, *Alcoholism: Clinical & Experimental Research* (ACER) (2013-present)
- Member, Editorial Board, Brazilian Journal of Psychiatry (Revista Brasileira de Psiquiatria) (2018-2020)
- Member, Editorial Board, *Journal of the Experimental Analysis of Behavior* (2013- present)
- Member, Editorial Board, *Behavior Analysis Today* (2006-present)
- Member, Editorial Board, *Drug and Alcohol Dependence* (1991-present)
- Member, Editorial Board, *Experimental and Clinical Psychopharmacology* (2006- present)
- Member, Editorial Board, *Journal of the Experimental Analysis of Behavior* (1990-93; 2006-08; 2014-17)
- Member, Editorial Board, *The Behavior Analyst* (1988-1990)
- Guest Editor, *Drug Development Research*
- Guest Editor, *The Psychological Record*
- Guest Editor, Special Issue on Behavioral Economics for *Journal of the Experimental Analysis of Behavior*
- Guest Reviewer, *Addiction*
- Guest Reviewer, *Addictive Behaviors*
- Guest Reviewer, *Addiction Biology* (12-17)
- Guest Reviewer, *AIDS and Behavior* (1-15)
- Guest Reviewer, *American Economic Review*
- Guest Reviewer, *American Journal of Clinical Nutrition*
- Guest Reviewer, *American Journal of Medicine*
- Guest Reviewer, *American Journal of Psychiatry*
- Guest Reviewer, *American Journal of Public Health*
- Guest Reviewer, *American Psychologist*
- Guest Reviewer, *Analysis and Intervention in Developmental Disabilities*
- Guest Reviewer, *Analysis of Verbal Behavior*
- Guest Reviewer, *Annals of the New York Academy of Sciences* (4-14)
- Guest Reviewer, *Appetite* (8-15)(9-15)
- Guest Reviewer, *Applied Research in Mental Retardation*
- Guest Reviewer, *Archives of General Psychiatry*
- Guest Reviewer, *BMC Public Health* (1-14)
- Guest Reviewer, *Behavioral Analyst*
- Guest Reviewer, *Behavioral and Cognitive Neuroscience Reviews*

- Guest Reviewer, *Behavioral Pharmacology*
- Guest Reviewer, *Biological Psychiatry* (10-13)(5-14)(6-14)(9-14)(10-14)(7-15)(12-15)(11-16)
- Guest Reviewer, *Cerebral Cortex*
- Guest Reviewer, *Clinical Neuropharmacology*
- Guest Reviewer, *Clinical Psychological Science* (4-17)
- Guest Reviewer, *Cognitive, Affective, & Behavioral Neuroscience*
- Guest Reviewer, *Consciousness and Cognition*
- Guest Reviewer, *Experimental Biology and Medicine*
- Guest Reviewer, *Experimental and Clinical Psychopharmacology*
- Guest Reviewer, *Experimental Gerontology* (6-13)
- Guest Reviewer, *European Addiction Research* (1-15)
- Guest Reviewer, *Human Brain Mapping* (4-17)
- Guest Reviewer, *INQUIRY* (10-17)
- Guest Reviewer, *Journal of Abnormal Psychology*
- Guest Reviewer, *Journal of Addiction Medicine*
- Guest Reviewer, *The Journal of the American Medical Association (JAMA) Psychiatry* (3-15)
- Guest Reviewer, *Journal of Applied Behavior Analysis*
- Guest Reviewer, *Journal of Behavioral Medicine* (8-15)(2-17)
- Guest Reviewer, *Journal of Consulting and Clinical Psychology*
- Guest Reviewer, *Journal of Experimental Child Psychology*
- Guest Reviewer, *Journal of Neuroscience, Psychology, and Economics*
- Guest Reviewer, *Journal of Pharmacological and Experimental Therapeutics*
- Guest Reviewer, *Journal of Studies on Alcohol*
- Guest Reviewer, *Journal of Substance Abuse*
- Guest Reviewer, *Learning and Motivation*
- Guest Reviewer, *Life Sciences*
- Guest Reviewer, *Obesity*
- Guest Reviewer, *Nature Human Behavior* (12-17)
- Guest Reviewer, *Nature Scientific Report* (2-16)
- Guest Reviewer, *Neuroimage*
- Guest Reviewer, *New England Journal of Medicine* (1-18)
- Guest Reviewer, *Personality and Social Psychology Bulletin*
- Guest Reviewer, *Pharmacology Biochemistry and Behavior*
- Guest Reviewer, *PLoS ONE*
- Guest Reviewer, *Preventive Medicine* (10-13)(4-14)(9-14)
- Guest Reviewer, *Proceedings of the National Academy of Sciences* (3-14)
- Guest Reviewer, *Psychiatry Research: Neuroimaging* (10-14)
- Guest Reviewer, *Psychological Medicine* (9-13)
- Guest Reviewer, *Psychological Science* (12-15)
- Guest Reviewer, *Psychology of Addictive Behaviors*
- Guest Reviewer, *Psychopharmacology*
- Guest Reviewer, *Research in Developmental Disabilities*
- Guest Reviewer, *Science* (10-15)
- Guest Reviewer, *Tobacco Control* (7-15)
- Guest Reviewer, *Trends in Cognitive Sciences* (1-15)

TEACHING & MENTORING

- University of Vermont (1987- 2004)
- Chair or member, Ph.D. dissertation, and Honor Thesis for 30 students in General Experimental or Clinical Psychology (1987-2004)
- Co-Director, Alcohol and Drug Abuse (12 hrs/every 2 yrs), psychiatry residents (1987-1991)
- Co-Director, Behavioral Therapy (12 hrs/every 2 yrs), psychiatry residents (1987-1991)
- Co-Director, Research Seminar in Human Behavioral Pharmacology (40 hrs/yr), undergraduate, graduate students in psychology, postdoctoral fellows, and psychiatry residents (1987-2004)
- Lecturer in Biological Psychiatry, psychiatry resident course (1987-2004)
- Major Advisor of graduate students in General Experimental Psychology Program (1988)
- Graduate Faculty, University of Vermont (1988-2004)
- Co-Director, Alcohol and Drug Abuse (9 hrs/yr), internal medicine residents (1989-1992)
- Co-Director, Behavioral Pharmacology of Drug Dependence, Graduate Psychology Course (Psy 380)(1989)
- Principal Investigator and Co-Director, National Institute on Drug Abuse Training Grant in Behavioral Pharmacology of Human Drug Dependence (1990-2004)
- Lecturer, Medical Pharmacology, second year medical student course (1991-1992)
- Lecturer, Research Concepts and Methods, psychiatry resident course (1991-1992)
- Lecturer, Science of Human Behavior Course, second year medical student course (1991-1992)
- Co-Director, Behavioral Pharmacology of Drug Dependence, Graduate Psychology Course (Psy 380)(1992)
- Lecturer, Introduction to Neuroscience Course (Biol 95), Department of Psychiatry, College of Medicine (1993-2004)
- Director, Drug Abuse and Selectionism, Graduate Psychology Course (Psy 380) (1996)
- Lecturer, Virginia Tech Carilion School of Medicine (2011)
- Module Facilitator, Gateway Course for Translational, Biology, Medicine & Health Graduate Program (2014)
- Module Facilitator, Gateway Course for Translational, Biology, Medicine & Health Graduate Program (2015)

STUDENT ADVISEES

Predoctoral

- Richard DeGrandpre (1989-1992), received Ph.D. in General Experimental Psychology.
- John Harrington (1993-1995), received Ph.D. in Clinical Psychology.
- Brandi Smith (1993-1998), received Ph.D. in General and Experimental Psychology.
- Lisa Marsch (1996-1999), received Ph.D. in General and Experimental Psychology
- Matthew W. Johnson (1999-2004), received Ph.D. in General Experimental Psychology.
- Kirstin Marie Gatchalian (2002-2004), Predoctoral trainee in General Experimental Psychology.
- Lara Moody (2012–2018), Clinical Psychology Graduate Student.
- Lexie Mellis (2015-16), Translational Biology, Medicine, & Health Graduate Student.
- Liqa Athamneh (2016), Translational Biology, Medicine, & Health Graduate Student.
- William H. Craft (2019-present), Translational Biology, Medicine, & Health Graduate Student.
- Devin Tomlinson (2019-present), Translational Biology, Medicine, & Health Graduate Student.
- Candice Dwyer (2020-present), VT Psychology-Clinical Science Graduate Student.

Postdoctoral

- Leslie Amass, Ph.D. (1991-1994)
- Jonathan Kamien, Ph.D. (1991-1994)
- Richard DeGrandpre, Ph.D. (1992-1994)
- Nancy Petry, Ph.D. (1994-1996)

- Greg Madden, Ph.D. (1995-1998)
- Amy Odum, Ph.D. (1998-1999)
- Tim Shahan, Ph.D. (1998-1999)
- Forest Baker, Ph.D. (2000-2001)
- Louis Giordano, Ph.D. (1999-2002)
- August Buchhalter, Ph.D. (2002-2004)
- Ari Kirshenbaum, Ph.D. (2002-2004)
- Richard Yi, Ph.D. (2002-2005)
- Darren Christensen, Ph.D. (2008-2009)
- Bryan Jones, Ph.D. (2008-2010)
- E. Terry Mueller, Ph.D. (2008-2012)
- David Jarmolowicz, Ph.D. (2010-2012)
- Michael Wesley, Ph.D. (2012)
- A. George Wilson, Ph.D. (2012–2014)
- Amanda J. Quisenberry, Ph.D. (2013–2016)
- Sarah E. Snider, Ph.D. (2014-2018)
- Jeffrey S. Stein, Ph.D. (2014-2016)
- Derek Pope, Ph.D. (2016-2019)
- Brent Kaplan, Ph.D. (2017-2019)
- Brady DeHart, Ph.D. (2017-2019)
- Roberta Freitas Lemos, Ph.D. (2019-present)
- Liqa Athamneh, Ph.D. (2019-present)
- Yu-Hua Yeh, Ph.D. (2020-present)

GRANTS

Active

- NIH, OD: “Mentorship and Development Program for Biomedical Trainees” DP7OD018428. Role: Co-Investigator. (9/13-8/20)(NCE)
- NIH, NIAAA: “Testing Reinforcer Pathology: Mechanisms and Interventions to Change Alcohol Valuation” 1R01AA027381-01A1. Role: MPI. (9/19-8/24)
- Univ. of Virginia (NIH, NCATS Subcontract): “The Integrated Translational Health Research Institute of Virginia (iTHRIV).” Role: Co-Investigator and Subaward Principal Investigator. (2/19-1/24)
- NIH, NIDA: “Neurobehavioral Determinants of Health Risk Behaviors: From Adolescence to Young Adulthood” 5R01DA036017-07. Role: Co-Investigator. (9/13-6/23)
- NIH, NCI: “Consortium on Methods Evaluating Tobacco (COMET): Filter Ventilation and Product Standards” P01CA217806. Role: Project Leader. Subcontract. (9/17-8/23)
- Indivior, LLC: “Remission from Chronic Opioid Use: Study of Environmental and Socioeconomic Factors on Recovery (RECOVER84)” Role: PI. (10/19-12/20)
- VA Commonwealth Univ (VA Biosciences Health Research Corp. Subcontract): “Novel Preventive Treatment Paradigm to Change the Standard of Care for Those Who Recover from Opioid Overdose.”

Role: Co-Investigator and Subcontract Principal Investigator. (9/17-7/20)

- NIH, NIDA: “Translational Approaches to TMS Treatment Development for Smoking.” R01. Role: Co-Principal Investigator. (4/18-2/22)
- NIH, NIDA, FDA: “E-Cigarette Substitution: Nicotine Strength as a Unit Price Manipulation and its Implications for Regulation.” Role: Co-Investigator. (4/18-7/20)
- NIH, NIDA: “Evaluating How Tobacco Control Policies are Shaping the Nicotine Delivery Market” P01CA200512. Role: Co-Investigator (Subcontract). (4/16-3/21)
- NIH, NIDA: “A Remotely Delivered Episodic Future Thinking Intervention to Improve Management of Type 2 Diabetes.” Role: Co-Investigator. (7/18-6/20)
- NIH, NCI Subcontract: “Enhancing Relapse Prevention with rTMS: Dose Response Parameters for Smoking Cessation.” Role: Co-Investigator and Subcontract PI. (6/18-5/23)
- NIH, NIAAA: “Remote Alcohol Monitoring to Facilitate Abstinence Reinforcement with an Underserved Population.” Role: Co-Investigator. (9/18-8/23)
- NIH, NIDDK: “Delay Discounting as a Target for Self-Regulation in Prediabetes.” Role: MPI; Subcontract PI. (9/15-6/20)

Past

- NIH, NIDA: “Neurobehavioral Determinants of Adolescent Substance Use and HIV/STD Behavior” R01DA036017. Role: Co-Investigator. (7/13-3/20) (NCE)
- NIH, NIDA: “Self-Control Improvement Intervention (SCII): Improving Abstinence in Smokers” R01DA034755. Role: Principal Investigator. (7/13-6/19)(NCE)
- NIH, NIAAA: “The Repair of Self-Control in Alcohol Dependence: Working Memory and RealTime fMRI” R01AA021529. Role: Co-Principal Investigator. (9/13-5/19)(NCE)
- NIH, NIDA: “Abuse Liability of Reduced Nicotine Content Cigarettes within a Complex Tobacco Marketplace” R01DA042535. Role: Co-Principal Investigator. (8/16-5/19)
- NIH, NIAAA: “A Financially Sustainable Remote Treatment for Alcohol Abuse: Feasibility” R21AA023605. Role: Co-Investigator. (8/16-7/19)(NCE)
- NIH, NIDA: “Neural Mechanisms of Social Influence on Risky Decisions in Cocaine Dependence” R21DA42274. Role: Co-Investigator. (4/17-3/19)
- NIH/NCI: “Models for Tobacco Product Evaluation” U19CA157345. Role: Project Leader (Subcontract). (9/12-8/18)(NCE)
- NIH, NIDA: “The Social Interactome of Recovery: Social Media as Therapy Development” R01DA039456. Role: Principal Investigator. (9/14-8/18)(NCE)
- NIH, NIDDK: “Delay Discounting as a Target for Self-Regulation in Prediabetes” UH2DK109543. Role: Co-Principal Investigator. (9/15-6/18)

- NIH, NIDDK: "Delay Discounting as a Target for Self-regulation in Prediabetes" (Conference Supplement) UH2DK109543-01S1. Role: MPI and Subcontract Principal Investigator. (9/15-6/18)
- NIH, NIDA: "Inter-Temporal Trade-offs in the Risky Decisions of Cocaine Addicts" R01DA030241. Role: Co-Principal Investigator. (7/10-3/18)
- NIH, NIDA: "Neural Correlates of Choices for Impulsive HIV-risk Behavior in Stimulant Dependence" R21DA040559. Role: Co-Investigator. (9/15-8/17)
- NIH, NIAAA: "Remote Alcohol Monitoring to Facilitate Abstinence Reinforcement: Feasibility" R21AA022727. Role: Co-Investigator. (8/14-7/17)
- NIH, NIMHD: "Reducing Socioeconomic Disparities in Tobacco Dependence Treatment Outcomes" R01MD007054. Role: Co-Investigator (Subcontract). (2/12-1/17)
- NIH, NCI: "Enhancing Relapse Prevention for Smoking Cessation with rTMS" R21CA178813. Role: Co-Investigator (Subcontract). (9/14-8/16)
- NIH, NIDA: "Inter-Temporal Trade-offs in the Risky Decisions of Cocaine Addicts" R01DA030241. Role: Co-Principal Investigator. (7/10-3/16)
- Medical University of South Carolina: "Experimental Tobacco Marketplace: Development and Pilot Testing" Role: Principal Investigator. (12/13-12/14)
- Virginia Youth Tobacco Projects "The Consequences of Self-Control Failure in Adolescent Smokers" Role: Principal Investigator. (7/13-12/14)
- NIH, NIDA: "Executive Function Therapy for Stimulant Addiction" Role: Principal Investigator. (9/08-6/14)
- NIAAA: "Executive Function Therapy for Stimulant Addiction" (ARRA Supplement). Role: Principal Investigator. (9/09-9/12)
- NIH, NIDA: "Improving Combined Buprenorphine Behavioral Treatment" Role: Principal Investigator (3/00-2/12)
- NIH, NIDA: "The Neuroeconomics of Behavioral Therapies for Adolescent Substance Abuse" Role: Co-Investigator. (4/10-3/13)
- NIH, ARRA: "Comparative Effectiveness of Web-Based vs. Traditional Adolescent HIV Prevention" Role: Consultant. (9/09-9/11)
- NIH, NCRR: "Arkansas Center for Clinical and Translational Research" Role: Co-Investigator (7/09-3/14)
- NIH, NIDA: "Computerized Treatment for Marijuana Abuse: Development and Efficacy Testing" Role: Co-Investigator. (9/07-6/11)
- NIH, NIDA: "The Behavioral Economics of Relapse" Role: Principal Investigator. (9/07-6/11, extension)
- NIH: "Translational Training in Addiction" Role: Principal Investigator/Program Director. (7/09-6/14)
- NIH, ARRA: "Computer-Delivered Psychosocial Treatment for Adolescent Substance Use Disorders" Role:

Consultant. (9/09-7/11)

- NIH, NIDA (MERIT Award): "Behavioral Economics of Drug Choice" Role: Principal Investigator. (6/90-5/10)
- NIH, NIAAA: "Treatment of Alcoholic Methadone Patients" Role: Principal Investigator. (2/87-1/90)
- NIH, NIDA: "Drug Effects on Repeated Acquisition in Humans" Role: Principal Investigator. (9/87-9/91)
- NIH, NIDA, NIMH: "Benzodiazepine Drug Discrimination in Humans" Role: Principal Investigator. (3/90-2/98)
- NIH, NIDA: "Buprenorphine Pharmacology in Opioid Addiction Treatment" Role: Principal Investigator. (9/90-8/00)
- NIH, NIDA: "Training in Behavioral Pharmacology of Drug Abuse" Role: Principal Investigator. (12/90-8/05)
- Eli Lilly & Company: "A Comparison of the Physiological, Psychomotor, and Self-Reported Effects of LY297802 and a Standard Compound in Humans" Role: Principal Investigator. (8/94-2/95)
- Eli Lilly & Company: "A Comparison of the Physiological, Psychomotor, and Self-Reported Effects of LY303870 and a Standard Compound in Humans" Role: Principal Investigator. (9/95-1/96)
- Astra Pain Control: "The Physiological, Psychomotor, and Self-Reported Effects of Infusion Rate of Intravenously Administered Morphine in Humans" Role: Principal Investigator. (1/99-3/00)
- NIH, NIDA Small Business Technology Transfer Award: "Drug Abuse Prevention: Application of Computer Technology" Role: Principal Investigator. (9/00-8/03)
- UAMS Tobacco Funds: "Smoking and Cancer Protocol" Role: Principal Investigator. (7/07-6/09)
- Catalyst Pharmaceutical Partners: "Vigabatrin for Treatment of Cocaine Dependence: A Phase II Study" Role: Principal Investigator. (3/08-6/09)
- NIH, NIDA: "A Behavioral Intervention for Cocaine Dependence" Role: Investigator. (9/89-8/94)
- NIH, NIDA: "Factors Influencing Human Cocaine Self-administration," Role: Investigator. (2/93-6/02)
- NIH, NIDA: "Caffeine as a Reinforcer in Humans" Role: Investigator. (8/88-7/92)
- NIH, NIDA: "Treating Cocaine Abuse - A Behavioral Approach" Role: Investigator (9/94-8/04)
- NIH, NIDA: "Opiate Antagonist Discrimination: A Model of Withdrawal" Role: Co-Investigator (9/97-11/11)
- NIH, NIDA: "Delay Discounting in Drug Dependence" Role: Co-Investigator. (4/99-2/10)
- Robert Wood Johnson Foundation - conference grant: "The Economic Analysis of Substance Use and Abuse: An Integration of Econometric and Behavioral Economic Research" Role: Co-Organizer. (10/96-9/97)

- Robert Wood Johnson Foundation: “The Futures of Drug Abuse Policy: Scenarios for the 21st Century”
Role: Organizer. (10/98 - 9/99)

PUBLICATIONS

Books

1. Bickel, W. K., & DeGrandpre, R. J. (Eds.). (1996). *Drug policy and human nature: Psychological perspectives on the control, prevention and treatment of illicit drug use*. New York: Plenum.
2. Chaloupka, F. J., Grossman, M., Bickel, W. K., & Saffor, M. (Eds.). (1999). *The economic analysis of substance use and abuse: An integration of econometric and behavioral economic research*. Chicago, IL: University of Chicago Press.
3. Bickel, W. K., & Vuchinich, R. E. (Eds.). (2000). *Reframing health behavior change with behavioral economics*. New Jersey: Lawrence Erlbaum Associates.
4. Henningfield, J., Santora, P., & Bickel, W. K. (Eds.). (2007) *Addiction treatment: Science and policy for the twenty-first century*. Baltimore, MD: Johns Hopkins University Press.
5. Madden, G. J., & Bickel, W. K. (Eds.). (2010). *Impulsivity: The behavioral and neurological science of discounting*. Washington, DC: American Psychological Association.

Published Articles and Book Chapters

h-index: 97	(h-index since 2015 = 57)
i10-index: 330	(i10-index since 2015 = 223)
Total Citations: >34,493	(>13,860 since 2015)

Most citations for a single article: >1,928 **(2nd most cited: >1,413)**

Number of papers cited > 100 times: 89

Highly Cited Paper: Bold citations below indicate as of April 2015, these papers received enough citations to place them in the top 1% of the academic field based on a highly cited threshold for the field and publication year. (*Essential Science Indicatorssm*)

(*Refereed Publications)

- *1. Thorkildsen, R., Bickel, W. K., & Williams, J. G. (1979). A micro-computer video-disc CAI system for the mentally retarded. *Journal of Special Education Technology*, 1, 45-51.
2. Thorkildsen, R., Bickel, W. K., & Williams, J. G. (1979). A micro-computer video-disc package to teach the retarded. *Educational and Industrial Television*, 11, 40-44.
- *3. Noonan, M. J., & Bickel, W.K. (1981). The ethics of experimental design. *Mental Retardation*, 19, 271-274.
- *4. Etzel, B. C., Bickel, W. K., Stella, M. E., & LeBlanc, J.M. (1982). The assessment of problem-solving skills of

atypical children. *Analysis and Intervention in Developmental Disabilities*, 2, 187-206.

- *5. Morris, E. K., Higgins, S. T., & Bickel, W. K. (1982). Comments on cognitive science in the experimental analysis of behavior. *The Behavior Analyst*, 5, 109-125.
- *6. Morris, E. K., Higgins, S. T., & Bickel, W.K. (1982). The influence of Kantor's interbehavioral psychology on behavior analysis. *The Behavior Analyst*, 5, 158-173.
- 7. Morris, E. K., Higgins, S. T., & Bickel, W. K. (1983). Contributions of J. R. Kantor to contemporary behaviorism. In N. W. Smith, P. T. Mountjoy, & D. Ruben (Eds.), *A Radical Reassessment in Psychology: The Interbehavioral Alternative* (Festchrift for J. R. Kantor) (pp. 51-89). Washington, DC: University Press of America.
- *8. Bickel, W. K., Stella, M. E., & Etzel, B. C. (1984). A re-evaluation of stimulus overselectivity: Restricted stimulus control or stimulus control hierarchies. *Journal of Autism and Developmental Disorders*, 14, 137-157.
- *9. Bickel, W. K., & Etzel, B. C. (1985). The quantal nature of controlling stimulus-response relations as measured in tests of stimulus generalization. *Journal of the Experimental Analysis of Behavior*, 44, 245-270.
- 10. Bickel, W. K., Higgins, S.T., & Stitzer, M. L. (1986). Choice of blind methadone dose increases by methadone maintenance patients. In L. S. Harris (Ed.). *Drug and Alcohol Dependence, 1985. National Institute on Drug Abuse Research Monograph No. 67, DHHS publication No. (ADM) 86-1448* (pp. 349-354). U.S. Government Printing Office.
- *11. Bickel, W. K., Higgins, S. T., & Stitzer, M.L. (1986). Choice of blind methadone dose increases by methadone maintenance patients. *Drug and Alcohol Dependence*, 18, 165-171.
- 12. Bickel, W. K., Preston, K. L., Bigelow, G. E., & Liebson, I. A. (1986). Three-way drug discrimination in post-addict volunteers: Hydromorphone, pentazocine and saline. In L. S. Harris (Ed.). *Problems of Drug Dependence, 1985. National Institute on Drug Abuse Research Monograph No. 67, DHHS publication No. (ADM) 86-1448*, (pp. 177-183) U.S. Government Printing Office.
- *13. Bickel, W. K., Richmond, G., Bell, J., & Brown, K. (1986). A microanalysis of the controlling stimulus-response relations engendered during the assessment of stimulus overselectivity. *The Psychological Record*, 36, 225-238.
- 14. Bickel, W. K., Stitzer, M. L., Wazelavek, B. E., & Liebson, I.A. (1986). Naloxone precipitated withdrawal in humans after acute morphine administration. In L.S. Harris (Ed.). *Problems of Drug Dependence, 1985. National Institute on Drug Abuse Research Monograph, No. 67, DHHS publication No. (ADM) 86- 1448* (pp. 349-354). U.S. Government Printing Office.
- 15. Richmond, G., Schroeder, S. R., & Bickel, W. K. (1986). Tertiary prevention of attrition related to self-injurious behavior. In K. D. Gadows (Ed.). *Advances in Learning and Behavioral Disabilities, Vol. 5.* (pp. 97-108). Greenwich, Connecticut: JAI Press.
- 16. Schroeder, S. R., Bickel, W. K., & Richmond, G. (1986). Primary and secondary prevention of self-injurious behavior. In K. D. Gadows (Ed.). *Advances in Learning and Behavioral Disabilities, Vol. 5* (pp. 63-85). Greenwich, Connecticut: JAI Press.
- *17. Stitzer, M. L., Bickel, W. K., Bigelow, G. E., & Liebson, I. A. (1986). Effects of methadone dose contingencies on urinalysis test results of poly-abusing methadone-maintenance patients. *Drug and*

Alcohol Dependence, 18, 341-348.

- *18. Bickel, W. K. (1987). The quantal interpretation of stimulus control. *The Psychological Record*, 37, 155-159.
- 19. Bickel, W. K., Johnson, R. E., Stitzer, M. L., Bigelow, G. E., Liebson, I. A., & Jasinski, D. R. (1987). A clinical trial of buprenorphine: I. Comparison with methadone in heroin detoxification. II. Examination of its opioid blocking properties. In L. S. Harris (Ed.). *Problems of Drug Dependence, 1986. National Institute on Drug Abuse Research Monograph, No. 76, DHHS publication No. (ADM)87- 1508* (pp. 182-188) U.S. Government Printing Office.
- *20. Bickel, W. K., Marion, I., & Lowinson, J. H. (1987). The treatment of alcoholic methadone patients: A review. *Journal of Substance Abuse Treatment*, 4, 15-19.
- 21. Blechman, E. A., Clay-Bickel, C. J., Kipke, M., & Bickel, W. K. (1987). Premenstrual Behavior. In E.A. Blechman and K.D. Brownell (Eds.). *Handbook of Behavioral Medicine for Women*. New York: Pergammon.
- *22. Higgins, S. T., Bickel, W. K., & Yingling, J. (1987). The acute effects of ethanol and diazepam on the acquisition and performance of response chains in humans. *Journal of Pharmacology and Experimental Therapeutics*, 243, 1-8.
- 23. Morris, E. K., Higgins, S. T., Bickel, W. K., & Braukman, C. J. (1987). An introduction to contemporary behaviorism: History, concepts and a system of analysis. In E.K. Morris and C.J. Braukman (Eds.). *Behavioral Approaches to Crime and Delinquency: Application, Research, and Theory* (pp.61-105). New York: Plenum.
- *24. Preston, K. L., Bigelow, G. E., Bickel, W. K., & Liebson, I. A. (1987). Three-choice drug discrimination in opioid-dependent humans: Hydromorphone, naloxone and saline. *Journal of Pharmacology and Experimental Therapeutics*, 243, 1002-1009.
- 25. Stitzer, M. L., Bickel, W. K., & Bigelow, G.E. (1987). Altered dose incentive procedures: Effectson polydrug use among methadone maintenance patients. In L. S. Harris (Ed.). *Problems of Drug Dependence, 1986. National Institute on Drug Abuse Research Monograph No. 76, DHHS publication No. (ADM) 87-1508* (pp. 162-167) U.S. Government Printing Office.
- *26. Bickel, W. K., Higgins, S. T., Johnson, L., & Kirby, K. (1988). An inverse relationship between baseline fixed interval response rate and the effects of a tandem response requirement. *Journal of the Experimental Analysis of Behavior*, 50, 211-218.
- 27. Bickel, W. K., & Kelly, T. H. (1988). The relationship of stimulus control to the treatment of substance abuse. In B.A. Ray (Ed.). *Learning factors in substance abuse. National Institute on Drug Abuse Research Monograph No. 84, DHHS Publication No. (ADM) 88-1576* (pp. 122-140). U.S. Government Printing Office.
- *28. Bickel, W. K., Stitzer, M. L., Bigelow, G. E., Liebson, I. A., Jasinski, D. R., & Johnson, R. E. (1988). Buprenorphine: Dose-related blockade of opioid challenge effects in opioid dependent humans. *Journal of Pharmacology and Experimental Therapeutics*, 247, 47-53.
- *29. Bickel, W. K., Stitzer, M. L., Bigelow, G. E., Liebson, I. A., Jasinski, D. R., & Johnson, R. E. (1988). A clinical trial of buprenorphine: Comparison with methadone in the detoxification of heroin addicts. *Clinical Pharmacology and Therapeutics*, 43, 72-78.

- *30. Bickel, W. K., Stitzer, M. L., Liebson, I. A., & Bigelow, G. E. (1988). Acute physical dependence in man: Effects of naloxone after acute morphine exposure. *Journal of Pharmacology and Experimental Therapeutics*, *224*, 126-132.
- *31. Kirby, K. C., & Bickel, W. K. (1988). Toward an explicit analysis of generalization: A stimulus control interpretation. *The Behavior Analyst*, *11*, 115-129.
32. Preston, K. L., Bigelow, G. E., Bickel, W. K., & Liebson, I. A. (1988). Drug discrimination in human post-addicts: Mixed agonists-antagonists. In L. S. Harris (Ed.), *Problems of Drug Dependence, 1987. National Institute on Drug Abuse Research Monograph No. 81, DHHS Publication No. (ADM)88-1564* (pp. 209-215). U.S. Government Printing Office.
- *33. Bickel, W.K., Bigelow, G.E., Preston, K.L., and Liebson, I.A. (1989). Opioid drug discrimination in humans: Stability, specificity and relation to self-reported drug effect. *Journal of Pharmacology and Experimental Therapeutics*, *251*, 1053-1062.
- *34. Bickel, W. K., Higgins, S. T., & Griffiths, R. R. (1989). Repeated diazepam administration: Effects on the acquisition and performance of response chains in humans. *Journal of the Experimental Analysis of Behavior*, *52*, 47-56.
- *35. Bickel, W. K., Rizzuto, P., Zielony, R. D., Klobas, J., Panagiosonlis, P., Mernit, R., & Knight, W. F. (1989). Combined behavioral and pharmacological treatment of alcoholic methadone patients. *Journal of Substance Abuse*, *1*, 161-171.
- *36. Higgins, S. T., Bickel, W. K., Hughes, J. R., Rush, C., Pepper, S., & Lynn, M.R. (1989). Comparable rates of responding and reinforcement do not eliminate the selective effects of ethanol on response-chain acquisition and performance. *The Psychological Record*, *39*, 583-595.
- *37. Higgins, S. T., Hughes, J. R., & Bickel, W.K. (1989). Effects of d-amphetamine on choice of social versus monetary reinforcement: a discrete-trial test. *Pharmacology Biochemistry, and Behavior*, *34*, 297-301.
- *38. Hughes, J. R., Higgins, S. T., & Bickel, W. K. (1989). On the use of the term "property" to refer to the behavioral effects of drugs. *Psychopharmacology*, *96*, 557.
- *39. Preston, K. L., Bigelow, G. E., Bickel, W. K., & Liebson, I. A. (1989). Human opioid drug discrimination: Mixed agonists-antagonists. *Journal of Pharmacology and Experimental Therapeutics*, *250*, 184-196.
40. Bickel, W. K., Higgins, S. T., & Hughes, J. R. (1990). Human behavioral pharmacology of benzodiazepines: Effects on the acquisition and performance of response chains. *Drug Development Research*, *20*, 53-64.
- *41. Bickel, W. K., DeGrandpre, R. J., Higgins, S. T., & Hughes, J. R. (1990). Behavioral economics of drug self-administration. I. Functional equivalence of response requirement and drug dose. *Life Science*, *47*, 1501-1510.
42. Dworkin, S. I., Higgins, S. T., & Bickel, W. K. (1990). Contemporary research in behavioral pharmacology: An introduction. *Drug Development Research*, *20*, 1-4.
- *43. Higgins, S. T., Bickel, W. K., Hughes, J. R., Lynn, M., Capeless, M. A., & Fenwick, J. W. (1990). Effects of intranasal cocaine on human learning performance and physiology. *Psychopharmacology*, *102*, 451- 458.
44. Hughes, J. R., Higgins, S. T., & Bickel, W. K. (1990). Human Behavioral Pharmacology Laboratory University of Vermont. *British Journal of Addictions*, *85*, 441-445.

- *45. Bickel, W. K., DeGrandpre, R. J., Hughes, J. R., & Higgins, S. T. (1991). Behavioral economics of drug self-administration. II. A unit-price analysis of cigarette smoking. *Journal of the Experimental Analysis of Behavior*, *55*, 145-154.
46. Bickel, W. K., Higgins, S. T., & Hughes, J. R. (1991). Development of repeated acquisition methodologies to detect drug-induced disruption in human learning. In S.W. Gust, J.M. Walsh, L.B. Thomas, and D.J. Crouch (Eds.), *Drugs in the Workplace: Research and Evaluation Data, NIDA Research Monograph No. 100, DHHS publication No. (ADM)* (pp. 91-1730).
- *47. Bickel, W. K., Higgins, S. T., & Hughes, J. R. (1991). The effects of diazepam and triazolam on repeated acquisition and performance of response sequences with observing response. *Journal of the Experimental Analysis of Behavior*, *56*, 217-237.
- *48. Bickel, W. K., & Rizzuto, P. (1991). The naturalistic oscillating patterns of alcohol consumption in alcoholic methadone patients. *Journal of Studies on Alcohol*, *52*, 454-457.
- *49. Budney, A. J., Higgins, S. T., Delaney, D. D., Kent, L., & Bickel, W. K. (1991). Contingent reinforcement of drug-free urine samples with individuals abusing both cocaine and marijuana. *Journal of Applied Behavior Analysis*, *24*, 657-665.
- *50. Higgins, S. T., Delaney, D. D., Budney, A. J., Bickel, W. K., Hughes, J., Foerg, F., & Fenwick, J. (1991). A behavioral approach to achieving initial cocaine abstinence. *American Journal of Psychiatry*, *148*, 1218-1224.
- *51. Hughes, J. R., Bickel, W. K., & Higgins, S.T. (1991). Buprenorphine for pain relief in a patient with drug abuse. *American Journal of Alcohol and Drug Abuse*, *17*, 451-455.
- *52. Hughes, J. R., Higgins, S. T., Bickel, W. K., Hunt, W. K., Fenwick, J. W., Gulliver, S. B., & Mireault, G.C. (1991). Caffeine self-administration, and adverse effects among coffee drinkers. *Archives of General Psychiatry*, *48*, 611-617.
- *53. Hughes, T. R., Wadland, W. C., Fenwick, J. W., Lewis, J., & Bickel, W. K. (1991). Effect of cost on self-administration and efficacy of nicotine gum: A preliminary study. *Preventive Medicine*, *20*, 486-496.
- *54. Johnson, L. M., Bickel, W. K., Higgins, S. T., & Morris E. K. (1991). The effects of schedule history and the opportunity for adjunctive responding on behavior during a fixed interval schedule of reinforcement. *Journal of the Experimental Analysis of Behavior*, *55*, 313-322.
- *55. Oliveto, A. H., Hughes, J. R., Terry, S. Y., Bickel, W. K., Higgins, S. T., Pepper, S. L., & Fenwick, J. (1991). Effects of caffeine on tobacco withdrawal. *Clinical Pharmacology and Therapeutics*, *50*, 157-164.
56. Bickel, W. K., & DeGrandpre, R. J. (1992). A review of the effects of unit price on drug self-administration. In J. Cohen-Yanez et al. (Eds.), *Drug Dependence: From the Molecular to the Social Level* (pp. 35-50). New York: Elsevier Science Publishers B.V.
- *57. Bickel, W. K., Hughes, J. R., DeGrandpre, R. J., Higgins, S. T., & Rizzuto, P. (1992). Behavioral economics of drug self-administration. IV. The effects of response requirement on consumption of and interaction between concurrently available coffee and cigarettes. *Psychopharmacology*, *107*, 211-216.
- *58. Budney, A. J., Higgins, S. T., Hughes, J. R., & Bickel, W. K. (1992). The scientific/clinical response to the cocaine epidemic: A medline search of the literature. *Drug and Alcohol Dependence*, *30*, 143-149.
- *59. DeGrandpre, R. J., Bickel, W. K., & Higgins, S. T. (1992). Emergent equivalence relations between

interoceptive (drug) and exteroceptive (visual) stimuli. *Journal of the Experimental Analysis of Behavior*, 58, 9-18.

- *60. DeGrandpre, R. J., Bickel, W. K., Hughes, J. R., & Higgins, S. T. (1992). Behavioral economics of drug self-administration. III. A reanalysis of the nicotine regulation hypothesis. *Psychopharmacology*, 108, 1-8.
- *61. Higgins, S. T., Rush, C. R., Bickel, W. K., Hughes, J. R., & Capeless, M. A. (1992). The effects of cocaine and alcohol alone and in combination on human learning and performance. *Journal of the Experimental Analysis of Behavior*, 38, 87-105.
- *62. Hughes, J. R., Bickel, W. K., & Higgins, S. T. (1992). Alcohol education. *The American Journal of Psychiatry*, 149, 1118.
- *63. Hughes, J. R., Helzer, J. E., Oliveto, A. H., Higgins, S. T., & Bickel, W. K. (1992). Should caffeine abuse, dependence, or withdrawal be added to DSM-IV or ICD-10? *American Journal of Psychiatry*, 149, 33-40.
- *64. Hughes, J. R., Hunt, W., Higgins, S. T., Bickel, W. K., Fenwick, J. W., & Pepper, S. L. (1992). Effect of dose on the ability of caffeine to serve as a reinforcer in humans. *Behavioral Pharmacology*, 3, 211-218.
- *65. Oliveto, A. H., Bickel, W. K., Hughes, J. R., Higgins, S. T., & Fenwick, J. W. (1992). Triazolam as a discriminative stimulus in humans. *Drug and Alcohol Dependence*, 30, 133-142.
- *66. Oliveto, A. J., Bickel, W. K., Hughes, J. R., Shea, P. J., Higgins, S. T., & Fenwick, J. W. (1992). Caffeine drug discrimination in humans: Acquisition, specificity and correlation to self reports. *Journal of Pharmacology and Experimental Therapeutics*, 261, 885-894.
- *67. Oliveto, A. H., Hughes, J. R., Bickel, W. K., Higgins, S. T., Pepper, S., Shea, P., and Fenwick, J. W. (1992). Forced choice vs. free choice: Caffeine self-administration in humans. *Psychopharmacology*, 109, 85-91.
- *68. Amass, L., Bickel, W. K., Higgins, S. T., Budney, A. J., & Foerg, F. E. (1993). The taking of free condoms in a drug abuse treatment clinic: The effects of location and posters. *American Journal of Public Health*, 83, 1466-1468.
- *69. Bickel, W. K., & Amass, L. (1993). The relationship of mean daily blood alcohol levels to admission, MAST, clinic absenteeism and depression in alcoholic methadone patients. *Drug and Alcohol Dependence*, 32, 113-118.
- *70. Bickel, W. K., DeGrandpre, R. J., & Higgins, S. T. (1993). Behavioral economics: A novel experimental approach to the study of drug dependence. *Drug and Alcohol Dependence*, 33, 173-192.
- *71. Bickel, W. K., Oliveto, A. H., Kamien, J. B., Higgins, S. T., & Hughes, J. R. (1993). A novel response procedure enhances the selectivity and sensitivity of a triazolam discrimination in humans. *Journal of Pharmacology and Experimental Therapeutics*, 264, 360-367.
- *72. Budney, A. J., Higgins, S. T., Bickel, W. K., & Kent, L. (1993). Relationship between intravenous use and achieving initial cocaine abstinence. *Drug and Alcohol Dependence*, 32, 133-142.
- *73. Budney, A. J., Higgins, S. T., Hughes, J. R., & Bickel, W. K. (1993). Nicotine and caffeine use in cocaine-dependent individuals. *Journal of Substance Abuse*, 5, 117-130.
- *74. DeGrandpre, R. J., & Bickel, W. K. (1993). Stimulus control and drug dependence. *The Psychological Record*, 43, 651-666.

- *75. DeGrandpre, R. J., Bickel, W. K., Hughes, J. R., Layng, M., & Badger, G. (1993). Unit price as a useful metric in analyzing effects of reinforcer magnitude. *Journal of the Experimental Analysis of Behavior*, *60*, 641-666.
- *76. DeGrandpre, R. J., Bickel, W. K., Rizvi, S. A. T., & Hughes, J. R. (1993). Effects of income on drug choice in humans. *Journal of the Experimental Analysis of Behavior*, *59*, 483-500.
- *77. Higgins, S. T., & Bickel, W.K. (1993). Treating cocaine abusers. *Hospital and Community Psychiatry*, *44*, 1007.
- 78. Higgins, S. T., Bickel, W. K., & Hughes, J. R. (1993). Methods in the human behavioral pharmacology of drug abuse. In F. van Haaren (Ed.), *Methods of Behavioral Pharmacology, Vol 10* (pp. 475-497). Techniques in the Behavioral and Neural Sciences. New York: Elsevier.
- *79. Higgins, S. T., Budney, A. J., Bickel, W. K., Hughes, J. R., & Foerg, F. (1993). Disulfiram therapy in patients abusing cocaine and alcohol. *The American Journal of Psychiatry*, *150*(4), 675-676.
- *80. Higgins, S. T., Budney, A. J., Bickel, W. K., Hughes, J. R., Foerg, F., & Badger, G. (1993). Achieving cocaine abstinence with a behavioral approach. *The American Journal of Psychiatry*, *150*(5), 763-769.
- *81. Higgins, S. T., Rush, C. R., Bickel, W. K., Hughes, J. R., Lynn, M., & Capeless, M. A. (1993). Acute behavioral and cardiac effects of cocaine and alcohol combinations in humans. *Psychopharmacology*, *111*, 285-294.
- *82. Hughes, J. R., Bickel, W. K., & Higgins, S.T. (1993). Educating psychiatrists in the evaluation and treatment of patients with substance abuse. *American Journal of Psychiatry*, *149*, 118.
- *83. Hughes, J. R., Oliveto, A. H., Bickel, W. K., Higgins, S. T., & Badger G. J. (1993). Caffeine self-administration and withdrawal: Incidence, individual differences and interrelationships. *Drug and Alcohol Dependence*, *32*, 239-246.
- *84. Iguchi, M. Y., Handelsman, L, Bickel, W. K., & Griffiths, R. R. (1993). Benzodiazepine and sedative use/abuse by methadone maintenance clients. *Drug and Alcohol Dependence*, *32*, 257-266.
- *85. Kamien, J. B., Bickel, W. K., Hughes, J. R., Higgins, S. T., & Smith, B. (1993). Drug discrimination by humans compared to nonhumans: Current status and future directions. *Psychopharmacology*, *111*, 259-270.
- *86. Oliveto, A. H., Bickel, W. K., Hughes, J. R., Terry, S. Y., Higgins, S. T., & Badger, G. J. (1993). Pharmacological specificity of the caffeine discriminative stimulus in humans: Effects of Theophylline, Methylphenidate and Buspirone. *Behavioural Pharmacology*, *4*, 237-246.
- *87. Rush, C. R., Higgins, S. T., Bickel, W. K., & Hughes, J. R. (1993). Acute effects of triazolam and lorazepam on human learning, performance, and subject ratings. *Journal of Pharmacology and Experimental Therapeutics*, *264*, 1218-1226.
- *88. Rush, C. R., Higgins, S. T., Hughes, J. R., & Bickel, W. K. (1993). Abuse liability of alprazolam relative to other commonly used benzodiazepines: A review. *Neuroscience and Biobehavioral Review*, *17*, 277- 285.
- *89. Rush, C. R., Higgins, S. T., Hughes, J. R., & Bickel, W. K. (1993). A comparison of the acute behavioral effects of triazolam and temazepam in normal volunteers. *Psychopharmacology*, *112*, 407-414.

- *90. Rush, C. R., Higgins, S. T., Hughes, J. R., Bickel, W. K., & Wiegner, M. S. (1993). Acute behavioral and cardiac effects of alcohol and caffeine, alone and in combination in humans. *Behavioural Pharmacology*, 4, 562-572.
- *91. Amass, L., Bickel, W. K., Higgins, S. T., & Badger, G.J. (1994). Alternate day dosing during buprenorphine treatment of opioid dependence. *Life Science*, 54, 1215-1228.
- *92. Amass, L., Bickel, W. K., Higgins, S. T., & Hughes, J. R. (1994). A preliminary investigation of outcome following gradual or rapid buprenorphine detoxification. *Journal of Addictive Diseases*, 13(3):33-45. Reprinted in *Experimental Therapeutics in Addiction Medicine*, pp.33-45.
93. Bickel, W. K. (1994). Employment and addiction. *Hospital and Community Psychiatry*, 45, 178.
- *94. DeGrandpre, R. J., Bickel, W. K., Higgins, S. T., & Hughes, J.R. (1994). A behavioral economic analysis of concurrently available money and cigarettes. *Journal of the Experimental Analysis of Behavior*, 61, 191-201.
- *95. Hale, K. L., Hughes, J. R., Oliveto, A. H., Bickel, W. K., & Higgins, S.T. (1994). Caffeine dependence among coffee and soda drinkers. *Behavioural Pharmacology*, 5, 106.
- *96. Higgins, S. T., Bickel, W. K., & Hughes, J.R. (1994). Influence of an alternative reinforcer on human cocaine self-administration. *Life Sciences*, 55, 179-187.
- *97. Higgins, S. T., Budney, A. J., & Bickel, W. K. (1994). Applying behavioral concepts and principles to the treatment of cocaine dependence. *Drug and Alcohol Dependence*, 34, 87-97.
- *98. Higgins, S. T., Budney, A. J., Bickel, W. K., & Badger, G. J. (1994). Participation of significant others in outpatient behavioral treatment predicts greater cocaine abstinence. *The American Journal of Drug and Alcohol Abuse*, 20(1), 47-56.
- *99. Higgins, S. T., Budney, A. J., Bickel, W. K., Foerg, F. E., Donham, R., & Badger, G. J. (1994). Incentives improve outcome in outpatient behavioral treatment of cocaine dependence. *Archives of General Psychiatry*, 51, 568-576.
- *100. Higgins, S. T., Budney, A. J., Bickel, W. K., Foerg, F. F., & Badger, G. J. (1994). Alcohol dependence and simultaneous cocaine and alcohol use in cocaine dependent patients. *Journal of Addictive Diseases*, 13(4), 177-189. Reprinted in *Experimental Therapeutics in Addiction Medicine*, pp. 177-189.
- *101. Higgins, S. T., Budney, A. J., Hughes, J. R., Bickel, W. K., Lynn, M., & Mortensen, A. (1994). Influence of cocaine use on cigarette smoking. *Journal of the American Medical Association*, 272, 1724.
- *102. Hughes, J. R., Higgins, S. T., & Bickel, W. K. (1994). Nicotine withdrawal vs other drug withdrawal syndromes: Similarities and dissimilarities. *Addiction*, 89, 1461-1470.
103. Hughes, J. R., Higgins, S. T., & Bickel, W. K. (1994). Common errors in the pharmacological treatment of drug dependence and withdrawal. *Comprehensive Therapy*, 20, 89-94.
- *104. Kamien, J. B., Bickel, W. K., Hughes, J. R., & Higgins, S. T. (1994). The effects of $\Delta 9$ - tetrahydrocannabinol on repeated acquisition and performance of response sequences and self-reports in humans. *Behavioural Pharmacology*, 5, 71-78.
- *105. Kamien, J. B., Bickel, W. K., Oliveto, A. H., Smith, B. J., Higgins, S. T., & Hughes, J. R. (1994). Triazolam discrimination by humans under a novel procedure: Effects of Buspirone and Lorazepam. *Behavioral*

Pharmacology, 5, 315-325.

- *106. Oliveto, A. H., Bickel, W. K., Kamien, J., Hughes, J. R., & Higgins, S. T. (1994). Effects of diazepam and hydromorphone in triazolam-trained humans under a novel-response procedure. *Psychopharmacology, 144, 417-423.*
- *107. Rush, C. R., Higgins, S. T., Bickel, W. K., & Hughes, J. R. (1994). Acute behavioral effects of Lorazepam and caffeine, alone and in combination in humans. *Behavioural Pharmacology, 5, 245-254.*
- *108. Rush, C. R., Higgins, S. T., Hughes, J. R., & Bickel, W. K. (1994). Acute behavioral effects of Triazolam and caffeine, alone and in combination, in humans. *Experimental and Clinical Psychopharmacology, 2, 211-222.*
- 109. Smith, B. J., Bickel, W. K., & Kamien, J. B. (1994). Human drug discrimination and the novel response procedure. *Experimental Analysis of Human Behavior Bulletin, 11, 38-41.*
- *110. Bickel, W. K., & Amass, L. A. (1995). Buprenorphine treatment of opioid dependence. A review. *Experimental and Clinical Psychopharmacology, 3, 477-489.*
- 111. Bickel, W. K., & DeGrandpre, R. J. (1995). Price and alternatives: Suggestions for drug policy from psychology. *International Journal of Drug Policy, 2, 93-105.*
- *112. Bickel, W. K., DeGrandpre, R. J., & Higgins, S. T. (1995). The behavioral economics of concurrent drug reinforcers: A review and reanalysis of drug self-administration research. *Psychopharmacology, 118, 250-259.*
- *113. Bickel, W. K., DeGrandpre, R. J., Higgins, S. T., Hughes, J. R., & Badger, G. J. (1995). Effects of simulated employment and recreation on cigarette smoking: A behavioral economic analysis. *Experimental and Clinical Psychopharmacology, 3, 467-476.*
- *114. Bickel, W. K., Green, L., & Vuchinich, R. E. (1995). Behavioral Economics. *Journal of the Experimental Analysis of Behavior, 64(3), 257-262.*
- *115. DeGrandpre, R. J. & Bickel, W. K. (1995). Human drug self-administration in a medium of exchange. *Experimental and Clinical Psychopharmacology, 3, 349-357.*
- *116. Higgins, S. T., Budney, A. J., Bickel, W. K., Badger, G. J., Foerg, F. E., & Ogden, D. (1995). Outpatient behavioral treatment for cocaine dependence: One-year outcome. *Experimental and Clinical Psychopharmacology, 3, 205-212.*
- *117. Hughes, J. R., Oliveto, A. H., Bickel, W. K., Higgins, S. T., & Badger, G. (1995). The ability of low doses of caffeine to serve as reinforcers in humans: A replication. *Experimental and Clinical Psychopharmacology, 3, 358-363.*
- *118. Kamien, J. B., Bickel, W. K., Oliveto, A. H., Higgins, S. T., Hughes, J. R., Richards, A. T., & Badger, G. J. (1995). Placebo-effects contribute to differences in the acquisition of drug discrimination by humans: A retrospective analysis. *Behavioral Pharmacology, 6, 187-194.*
- *119. Kirby, K. C., & Bickel, W. K. (1995). Implications of behavioral pharmacology research for applied behavior analyses: JEAB's March 1994 Special Issue celebrating the contributions of Joseph V. Brady. *Journal of Applied Behavior Analysis, 28, 105-112.*
- *120. Van Etten, M. L., Higgins, S. T., & Bickel, W. K. (1995). Effects of response cost and unit dose on

alcohol self-administration in moderate drinkers. *Behavioural Pharmacology*, 6, 754-758.

- *121. Amass, L., Bickel, W. K., Crean, J. P., Higgins, S. T., & Badger, G. J. (1996). Preferences for clinic privileges, retail items and social activities in an outpatient buprenorphine treatment program. *Journal of Substance Abuse Treatment*, 13, 43-49.
- 122. Bickel, W. K., & DeGrandpre, R. J. (1996). Modeling drug abuse policy in the behavioraleconomics laboratory. In L. Green and J. Kagel (Eds.), *Advances in Behavioral Economics, Vol. 3* (pp. 69-95). New York: Ablex.
- 123. Bickel, W. K., & DeGrandpre, R. J. (1996). Psychological science speaks to drug policy: The clinical relevance and policy implications of basic behavioral principles. In W.K. Bickel and R.J. DeGrandpre (Eds.), *Drug Policy and Human Nature: Psychological Perspectives on the Control, Prevention and Treatment Illicit Drug Use* (pp. 31-52). New York: Plenum.
- *124. Bickel, W. K., & McLellan, A. T. (1996). Can management by outcome invigorate substance abuse treatment? Microincentives and the quality of care. *The American Journal on Addictions*, 5, 281-291.
- 125. DeGrandpre, R. J., & Bickel, W. K. (1996). Drug dependence as consumer demand. In L. Green and J. Kagel (Eds.), *Advances in Behavioral Economics, Vol. 3*, pp. 1-36. New York: Ablex.
- *126. Higgins, S. T., Roll, J. M., & Bickel, W. K. (1996). Alcohol pretreatment increases preference for cocaine over monetary reinforcement. *Psychopharmacology*, 123, 1-8.
- *127. Roll, J. M., Higgins, S. T., Budney, A. J., Bickel, W. K., & Badger, G. J. (1996). A comparison of cocaine-dependent cigarette smokers and non-smokers on demographic, drug use and other characteristics. *Drug and Alcohol Dependence*, 40, 195-201.
- *128. Bickel, W. K., Amass, L., Higgins, S. T., Badger, G. J., & Esch, R. A. (1997). Effects of adding behavioral treatment to opioid detoxification with buprenorphine. *Journal of Consulting and Clinical Psychology*, 65, 803-810.
- 129. Bickel, W. K., & Kelly, T. H. (1997). Stimulus control processes in drug taking: Implications for drug abuse treatment. In D.M. Baer and E.M. Pinkston (Eds.), *Environment and Behavior* (pp. 185-193). Boulder, CO: Westview Press.
- *130. Bickel, W. K., Madden, G. J., & DeGrandpre, R. J. (1997). Modeling the effects of combined behavioral-pharmacological treatment on cigarette smoking: Behavioral-economic analyses. *Experimental and Clinical Psychopharmacology*, 5, 334-343.
- *131. Hughes, J. R., & Bickel, W. K. (1997). Modeling drug dependence behaviors for animal and human studies. *Pharmacology Biochemistry and Behavior*, 57, 413-417.
- *132. Kamien, J. B., Bickel, W. K., Smith, B. J., Badger, G. J., & Hughes, J. R. (1997). Secobarbital in humans discriminating Triazolam under two-response and novel-response procedures. *Pharmacology Biochemistry and Behavior*, 58, 983-991.
- *133. Madden, G. J., Petry, N., Badger, G., & Bickel, W.K. (1997). Impulsive and self-control choices in opioid-dependent subjects and non-drug using controls: Drug and monetary rewards. *Experimental and Clinical Psychopharmacology*, 5, 256-262.
- *134. Moody, D. E., Laycock, J. D., Spanbauer, A. C., Crouch, D. J., Foltz, R. L., Josephs, J. L., Amass, L., & Bickel, W. K. (1997). Determination of buprenorphine in human plasma by gas

chromatography/positive ion chemical ionization mass spectrometry and liquid chromatography/tandem mass spectrometry. *Journal of Analytical Toxicology*, 21, 406-414.

- *135. Oliveto, A. H., Bickel, W. K., Hughes, J. R., Higgins, S. T., & Badger, G. (1997). Functional antagonism of the caffeine discriminative stimulus by triazolam in humans. *Behavioural Pharmacology*, 8, 124- 138.
- *136. Amass, L., Bickel, W. K., Crean, J. P., Blake, J., & Higgins, S. T. (1998). Alternate-day buprenorphine dosing is as acceptable and preferred to daily dosing in opioid-dependent humans. *Psychopharmacology*, 136, 217-225.
- 137. Bickel, W. K., Madden, G. J., & Petry, N. M. (1998). The price of change. *Behavior Therapy*, 29, 545-565.
- *138. Bickel, W. K., & Shahan, T. A. (1998). Ethical and theoretical paradoxes in human behavioral pharmacological research: Comments on Fischman and Johanson. *Behavioral Pharmacology*, 9, 340-345.
- *139. Budney, A. J., Bickel, W. K., & Amass, L. (1998). Marijuana use and treatment outcome among opioid-dependent patients. *Addiction*, 93, 493-503.
- 140. Carroll, M. E., & Bickel, W. K. (1998). Behavioral-environmental determinants of the reinforcing functions of cocaine. In S.T. Higgins and J.L. Katz (Eds.), *Cocaine Abuse Research: Pharmacology Behavior, and Clinical Applications*. San Diego, CA: Academic Press, pp.81-106.
- *141. Petry, N. M., & Bickel, W. K. (1998). Polydrug abuse in heroin addicts: A behavioral economic analysis. *Addiction*, 93, 321-335.
- 142. Petry, N. M., & Bickel, W. K. (1998). Can simulations substitute for reality? *Addiction*, 93, 605-606. (Letter to the editor).
- *143. Petry, N. M., Bickel, W. K., & Arnett, M. (1998). Shortened time horizons and insensitivity to future consequences in heroin addicts. *Addiction*, 93, 729-738.
- 144. Petry, N. M., Bickel, W. K., & Badger, G. J. (1998). A 12-year study of mortality in methadone maintenance patients: Demographic characteristics and drug use patterns of AIDS and non-AIDS related deaths. *Substance Use and Abuse*, 33, 2521-2534.
- *145. Petry, N. M., Bickel, W. K., Huddleston, J., Tzani, E., & Badger, G. J. (1998). A comparison of subjective, psychomotor, and physiological effects of a novel muscarinic analgesic, LY297802 tartrate, and oral morphine in occasional drug users. *Drug and Alcohol Dependence*, 50, 129-136.
- *146. Petry, N. M., Bickel, W. K., Tzani, E., Taylor, R., Kubik, E., Foster, M., & Hughes, M.E. (1998). A behavioral intervention for improving the verbal behaviors of heroin addicts in a treatment clinic. *Journal of Applied Behavioral Analysis*, 31, 291-297.
- 147. Bickel, W. K. (1999). Two principals, one host: Discussant comments. In G. Swan (Ed.), *Nicotine and Tobacco Research*, 1 (pp. S109-S110). PA: Carfax Publishing.
- *148. Bickel, W. K., Amass, L., Crean, J. P., & Badger, G. J. (1999). Buprenorphine dosing every 1, 2, or 3 days in opioid-dependent patients. *Psychopharmacology*, 146, 111-118.
- 149. Bickel, W. K., & Madden, G. J. (1999). The behavioral economics of smoking. In F.J. Chaloupka, M. Grossman, W.K. Bickel, & H. Saffer (Eds.), *The Economic Analysis of Substance Use and Abuse: An*

Integration of Economic and Behavioral Economic Research (pp. 31-61). Chicago, IL: University of Chicago Press.

- *150. Bickel, W. K., & Madden, G. J. (1999). Similar consumption and responding across single and multiple sources of drug. *Journal of the Experimental Analysis of Behavior*, 72, 299-316.
- *151. Bickel, W. K., & Madden, G. J. (1999). A comparison of measures of relative reinforcing efficacy and behavioral economics: Cigarettes and money in smokers. *Behavioural Pharmacology*, 10, 627-637.
- 152. Bickel, W. K., Madden, G. J., & Hughes, J. R. (1999). Nicotine nasal spray and gum function as inferior goods: Behavioral-economic analysis. *Nicotine and Tobacco Research*, 1, 97.
- 153. Bickel, W. K., & Marsch, L. A. (1999). Combined behavioral and pharmacological treatment during opioid detoxification. A review. In S.T. Higgins and K. Silverman (Eds.), *Motivating Behavior Change Among Illicit-Drug Abusers: Contemporary Research on Contingency-Management Interventions* (pp. 265-279). Washington, DC: American Psychological Association.
- *154. Bickel, W. K., Odum, A. L., & Madden, G. J. (1999). Impulsivity and cigarette smoking: Delay discounting in current, never, and ex-smokers. *Psychopharmacology*, 146, 447-454.
- 155. Chaloupka, F. J., Grossman, M., Bickel, W. K., & Saffer, H. (1999). Introduction. In F.J. Chaloupka, M. Grossman, W.K. Bickel and H. Saffer (Eds.), *The Economic Analysis of Substance Use and Abuse: An Integration of Economic and Behavioral Economic Research* (pp. 1-12). Chicago, IL: University of Chicago Press.
- *156. Jacobs, E. A., & Bickel, W. K. (1999). Precipitated withdrawal in an opioid-dependent outpatient receiving alternate-day Buprenorphine dosing. *Addiction*, 94(1), 140-141. (Letter to the editor).
- *157. Jacobs, E. A., & Bickel, W. K. (1999). Modeling drug consumption in the clinic via simulation procedures: Demand for heroin and cigarettes in opioid-dependent outpatients. *Journal of Experimental and Clinical Psychopharmacology*, 7, 412-426.
- 158. Kirby, K. N., Petry, N. M., & Bickel, W. K. (1999). Heroin addicts discount delayed rewards at higher rates than non-drug using controls. *Journal of Experimental Psychology: General Processes*, 128, 78-87.
- *159. Madden, G. J., & Bickel, W. K. (1999). Abstinence and price effects on demand for cigarettes: A behavioral-economic analysis. *Addiction*, 94(4), 577-588.
- *160. Madden, G. J., Bickel, W. K., & Jacobs, E.A. (1999). Discounting of delayed rewards in opioid-dependent outpatients: Exponential or hyperbolic discounting functions. *Journal of Experimental and Clinical Psychopharmacology*, 7, 284-293.
- *161. Petry, N. M., & Bickel, W. K. (1999). Buprenorphine dose self-selection: Effects of an alternative reinforcer, behavioral economic analysis of demand, and examination of subjective drug effects. *Experimental and Clinical Psychopharmacology*, 7, 38-48.
- 162. Petry, N. M., & Bickel, W.K. (1999). Therapeutic alliance and psychiatric severity: Predictors of treatment completion in buprenorphine treatment trials for opioid dependence. *Psychiatric Services*, 50, 219-227. Abstracted in *The Brown University Digest of Addiction Theory and Application*, 18, 1-6. Abstracted in *Outcomes Accountability Alert: Practical Strategies for the Management and Evaluation of Behavioral Health Services Delivery*, 4(8), 3.
- 163. Petry, N. M., & Bickel, W. K. (1999). A behavioral economic analysis of polydrug abuse in heroin

addicts. In F.J. Chaloupka, M. Grossman, W.K. Bickel, and H. Shaffer (Eds.), *The Economic Analysis of Substance Use and Abuse: An Integration of Economic and Behavioral Economic Research*. Chicago, IL: University of Chicago Press, pp. 213-238.

- *164. Petry, N. M., Bickel, W. K., & Badger, G.J. (1999). A comparison of four buprenorphine dosing regimens in the treatment of opioid dependence. *Clinical Pharmacology and Therapeutics*, *66*, 306-314.
- *165. Shahan, T. A., Bickel, W. K., Madden, G. J., & Badger, G. J. (1999). Comparing the reinforcing efficacy of nicotine containing and de-nicotinized cigarettes: A behavioral economic analysis. *Psychopharmacology*, *147*(2), 210-216.
- *166. Smith, B. J., & Bickel, W. K. (1999). Flumazenil discrimination by humans under a two-response and a novel-response procedure. *Journal of Pharmacology and Experimental Therapeutics*, *291*(3), 1257-1268.
- *167. Smith, B. J., & Bickel, W.K. (1999). Comparing single and cumulative dosing procedures in human Triazolam discriminators. *Journal of Experimental Analysis of Behavior*, *71*, 417-437.
- *168. Smith, B. J., & Bickel, W.K. (1999). The novel-response procedure in humans. *Pharmacology Biochemistry and Behavior*, *64*, 245-250.
- 169. Stanger, C., Higgins, S. T., Bickel, W. K., Elk, R., Grabowski, J., Schmitz, J., Amass, L., Kirby, K. C., & Seracini, A. M. (1999). Behavioral and emotional problems among children of cocaine and opiate dependent parents. *Journal of the American Academy of Child and Adolescent Psychiatry*, *38*(4), 421- 428.
- *170. Tidey, J. W., Higgins, S. T., Bickel, W. K., & Steingard, S. (1999). Effects of response requirement and the availability of an alternative reinforcer on cigarette smoking byschizophrenics. *Psychopharmacology*, *145*, 52-60.
- 171. Bickel, W. K. (2000). Experimental and clinical psychopharmacology: The next five years (Editorial). In W.K. Bickel (Ed.), *Experimental and Clinical Psychopharmacology*, *8*(1), 1-3.
- 172. Bickel, W. K., & Marsch, L.A. (2000). The tyranny of small decisions: Origins, outcomes and proposed solutions. In W.K. Bickel and R.E. Vuchinich (Eds.), *Reframing Health Behavior Change with Behavioral Economics* (pp341-391). New Jersey: Lawrence Erlbaum Associates.
- *173. Bickel, W.K., Marsch, L.A., and Carroll, M.E. (2000). Deconstructing relative reinforcing efficacy and situating the measures of pharmacological reinforcement with behavioral economics: A theoretical proposal. *Psychopharmacology*, *153*, 44-56.
- 174. Higgins, S. T., & Bickel, W. K. (2000). Celebrating the decade of behavior: Introduction to *Special Issue*. *Experimental and Clinical Psychopharmacology*, *8*(3), 261-263.
- *175. Madden, G. J., Bickel, W. K., & Jacobs, E. A. (2000). Three predictions of the economic concept of unit price in a choice context. *Journal of Experimental Analysis of Behavior*, *73*, 45-64.
- *176. Odum, A. L., Madden, G. J., Badger, G. J., & Bickel, W. K. (2000). Needle sharing in opioid-dependent outpatients: Psychological processes underlying risk. *Drug and Alcohol Dependence*, *60*(3), 259-266.
- *177. Petry, N. M., & Bickel, W. K. (2000). Gender differences in hostility of opioid-dependent outpatients: Role in early treatment termination. *Drug and Alcohol Dependence*, *58*, 27-33.

- *178. Petry, N. M., Bickel, W. K., & Badger, G. J. (2000). A comparison of four buprenorphine dosing regimens using open-dosing procedures: is twice-weekly dosing possible? *Addiction*, *95*(7), 1069-1077.
- *179. Petry, N. M., Bickel, W. K., Piasecki, D., Marsch, L. A., & Badger, G. J. (2000). Elevated liver enzyme levels in opioid-dependent patients with hepatitis treated with buprenorphine. *American Journal on Addictions*, *9*(3), 265-269.
- *180. Shahan, T. A., Odum, A. L., & Bickel, W. K. (2000). Nicotine gum as a substitute for cigarettes: a behavioral economic analysis. *Behavioral Pharmacology*, *11*(1), 71-79.
181. Slade, J., Bickel, W. K., Crowley, T. J., Ferrence, R., Henningfield, J. E., Houston, T. P., Mitchell, B., Room, R., Sweanor, D., & Warner, K.E. (2000). The role of managing nicotine in controlling the tobacco epidemic. In R. Ferrence, J. Slade, R. Room, and M. Pope (Eds.), *Nicotine and Public Health* (pp 483-501). Washington, DC: American Public Health Association.
182. Vuchinich, R. E., & Bickel, W. K. (2000). Preface. In W.K. Bickel and R.E. Vuchinich (Eds.), *Reframing Health Behavior Change with Behavioral Economics*. New Jersey: Lawrence Erlbaum Associates.
- *183. Bickel, W. K., & Marsch, L. A. (2001). Toward a behavioral economic understanding of drug dependence: Delay discounting processes. *Addiction*, *96*, 73-86.
184. Bickel, W. K., & Giordano, L. (2001). Behavioral economics. In R. Carson-DeWitt, K.M. Carroll, J. Fagan, H.R. Kranzler & M.J. Kuhar (Eds.), *Encyclopedia of Drugs, Alcohol, and Addictive Behavior*. Farmington Hills, MI: Macmillan.
185. Carroll, M. E., Bickel, W. K., & Higgins, S. T. (2001). Nondrug incentives to treat drug abuse: Laboratory and clinical developments. In M.E. Carroll and J.B. Overmier (Eds.), *Linking Animal Research and Human Psychological Health*, (pp 139-154). Washington, DC: American Psychological Association.
- *186. Giordano, L. A., Bickel, W. K., Shahan, T. A. & Badger, G.J. (2001). Behavioral economics of human drug self-administration: Progressive ratio vs. random sequences of response requirements. *Behavioural Pharmacology*, *12*(5), 343-347.
- *187. Gross, A., Jacobs, E. A., Petry, N. M., Badger, G. J., & Bickel, W. K. (2001). Limits to buprenorphine dosing: A comparison between quintuple and sextuple the maintenance dose every 5 days. *Drug and Alcohol Dependence*, *64*(1), 111-116.
- *188. Johnson, M. W., & Bickel, W. K. (2001). Within-subject comparison of real and hypothetical money rewards in delay discounting. *Journal of the Experimental Analysis of Behavior*, *77*(2), 129-146.
- *189. Petry, N. M., Bickel, W. K., & Badger, G. J. (2001). Examining the limits of the buprenorphine interdosing interval: Daily, every-third-day and every-fifth-day dosing regimens, *Addiction* *96*, 823-834.
190. Rush, C. R., Ator, N. A., Simpson, C. A., & Bickel, W. K. (2001). Behavioral pharmacology of commonly abused drugs: Concordance between laboratory studies conducted with animals and humans. In M.E. Carroll and J.B. Overmier (Eds.), *Linking Animal Research and Human Psychological Health* (pp.101-114). American Psychological Association.
- *191. Shahan, T. A., Bickel, W. K., Badger, G. J., & Giordano, L. A. (2001). Sensitivity of nicotine-containing and de-nicotinized cigarette consumption to alternative non-drug reinforcement: Behavioral

- economic analysis. *Behavioural Pharmacology*. Vol. 12(4), 277-284.
- *192. Smith, B. J., & Bickel, W. K. (2001). Effects of alprazolam, caffeine, and zolpidem in humans trained to discriminate triazolam from placebo. *Drug and Alcohol Dependence*, 61, 249-260.
- *193. Giordano, L. A., Bickel, W. K., Loewenstein, G., Jacobs, E. A., Marsch, L., & Badger, G. J. (2002). Mild opioid deprivation increases the degree that opioid-dependent outpatients discount delayed heroin and money. *Psychopharmacology*, 163, 174-182.
- *194. Heil, S. H., Holmes, H. W., Bickel, W. K., Higgins, S. T., Badger, G. J., Laws, H. F., & Faries, D. E. (2002). Comparison of the subjective, physiological and psychomotor effects of Atomoxetine and Methylphenidate in light drug users. *Drug & Alcohol Dependence*. Vol. 67(2), 149-156.
- *195. Marsch, L. A., Bickel, W. K., Badger, G. J., Rathmell, J., Swedberg, M., Jonzon, B., & Norsten-Höög, C. (2002). Effects of infusion duration of intravenously administered morphine on physiological, psychomotor, and self-reported measures in humans. *Journal of Pharmacology and Experimental Therapeutics*. 299(3), 1056-1065.
196. Nunes, E. V., Carroll, K. M., & Bickel, W. K. (2002). Clinical and translational research: Introduction to the special issue. *Experimental & Clinical Psychopharmacology*. Vol. 10, No. 3, 155-158.
- *197. Odum, A. L., Madden, G. J., & Bickel, W. K. (2002). Discounting of delayed health gains and losses by current, never, and ex-smokers of cigarettes. *Nicotine & Tobacco Research*. Vol. 4, 295-303.
- *198. Stanger, C., Kamon, J., Dumenci, L., Higgins, S. T., Bickel, W. K., Grabowski, J., & Amass, L. (2002). Predictors of internalizing and externalizing problems among children of cocaine and opiate dependent parents. *Drug and Alcohol Dependence*. Vol. 66, 199-212.
- *199. Baker, F., Johnson, M. W., & Bickel, W. K. (2003). Decision-making in state lotteries: Half now or all of it later? *Psychonomic Bulletin and Review*, Dec;10(4), 965-70.
- *200. Baker, F., Johnson, M. W., & Bickel, W. K. (2003). Delay discounting in current and never-before cigarette smokers: Similarities and differences across commodity, sign, and magnitude. *Journal of Abnormal Psychology*. 112(3), 382-392.
201. Bickel, W. K. (2003). Modulation vs. separable process: Comments on Cardinal, Robbins, and Everitt. In N. Heather and R. Vuchinich (Eds.), *Choice, Behavioral Economics and Addictions*, Ch. 7, 214-216, Pergamon, an imprint of Elsevier, The Netherlands.
202. Bickel, W. K., & Johnson, M. W. (2003). Delay discounting: A fundamental behavioral process in drug dependence. In G. Loewenstein, D. Read, & R. Baumeister (Eds.), *Time and Decision: Economic and Psychological Perspectives on Intertemporal Choice* (pp. 419-440). New York, NY: Russell Sage Foundation.
203. Bickel, W. K., & Johnson, M. W. (2003). Junk time: Pathological behavior as the interaction of evolutionary and cultural forces. In N. Heather and R. Vuchinich (Eds.), *Choice, Behavioral Economics and Addictions*. Ch. 9, 249-271, Pergamon, an imprint of Elsevier, The Netherlands.
204. Bickel, W. K., & Johnson, M. W. (2003). The continuum of discounting: A reply to comments by Keith Humphrey. In N. Heather and R. Vuchinich (Eds.), *Choice, Behavioral Economics and Addictions* (pp. 276-278). Pergamon, an imprint of Elsevier, The Netherlands.
- *205. Johnson, M.W., & Bickel, W.K., (2003). The behavioral economics of cigarette smoking: The concurrent

- presence of a substitute and an independent reinforcer. *Behavioural Pharmacology*, *14*, 137-144.
206. Silverman, K., Higgins, S. T., & Bickel, W. K. (2003). The therapeutic workplace: Applied behavior analysis in the treatment of drug dependence. In K.S. Budd and T. Stokes (Eds.), *A Small Matter of Proof: The Legacy of Donald M. Baer* (pp. 195-210). Context Press, Reno, NV.
- *207. Bickel, W. K., Giordano, L. A., & Badger, G. J. (2004). Risk sensitive foraging theory elucidates risky choices made by heroin addicts. *Addiction*, *99*, 855-861.
208. Johnson, M. W., Bickel, W. K., & Kirshenbaum, A. P. (2004). Substitutes for tobacco smoking: A behavioral economic analysis of nicotine gum, denicotinized cigarettes, and nicotine-containing cigarettes. *Drug and Alcohol Dependence*, *74*, 253-264.
- *209. Marsch, L. A., & Bickel, W. K. (2004). Efficacy of computer-based HIV/AIDS education for injection drug users (IDUs). *American Journal of Health Behavior*. *28*, 316-327.
- *210. Bickel, W. K., Bigelow, G., & Kampman, K. (2005) Response: Still room to improve an effective treatment. *Science & Practice Perspectives*, *3*(1), 32-33. PMID:18552744.
- *211. Marsch, L. M., Bickel, W. K., Badger, G. J., & Jacobs, E. A., (2005). Buprenorphine treatment for opioid dependence: The relative efficacy of daily, twice and thrice weekly dosing. *Drug and Alcohol Dependence*, *77*, 195-204.
- *212. Marsch, L. A., Bickel, W. K., Badger, G. J., Stothart, M. E., Quesnel, K. J., Stanger, C., & Brooklyn, J. (2005). Comparison of pharmacological treatments for opioid-dependent adolescents: A randomized controlled trial. *Archives of General Psychiatry*, *62*(10), 1157-1164.
- *213. Yi, R. & Bickel W. K. (2005). Representation of odds in terms of frequencies reduces probability discounting. *The Psychological Record*, *55*, 577-593.
- *214. Yi, R., Johnson, M. W. & Bickel, W. K. (2005). Relationship between cooperation in an iterated prisoner's dilemma game and the discounting of hypothetical outcomes. *Learning and Behavior* *33*(3), 324-336.
- *215. Bickel, W. K., Kowal, B. P. & Gatchalian, K. M. (2006). Understanding addiction as a pathology of temporal horizon. *Behavior Analyst Today*, *7*(1), 32-47.
216. Bickel, W. K., & Potenza, M. N. (2006). The Forest and the Trees: Addictions as a Complex Self-Organizing System. In W. R. Miller and K. M. Carroll (Eds). *Rethinking Substance Abuse: What Science Shows, and What We Should Do About It* (pp. 8-21) New York: Guilford.
- *217. Bickel, W. K., & Yi, R. (2006). What came first? Comment on Dom et al. *Addiction*, *101*(2), 291-292.
- *218. Gross, A., Marsch, L. A., Badger, G. J., & Bickel, W. K. (2006). A comparison between low magnitude voucher and buprenorphine medication contingencies in promoting abstinence from opioids and cocaine. *Experimental and Clinical Psychopharmacology*, *14*(2), 148-156. DOI: 10.1037/1064-1297.14.2.148.
- *219. Heil, S. H., Johnson, M. W., Higgins, S. T., & Bickel, W. K. (2006). Delay discounting in currently using and currently abstinent cocaine-dependent outpatients and non-drug-using matched controls. *Addictive Behaviors*, *31*(7), 1290-1294. Epub 2005Oct 19.
- *220. Johnson, M. W. & Bickel, W. K. (2006). Replacing relative reinforcing efficacy with behavioral economic demand curves. *Journal of the Experimental Analysis of Behavior*, *85*(1), 73-93. PMCID:

PMC1397796

- *221. Kirshenbaum, A. P., Bickel, W. K. & Boynton, D. M. (2006). Simulated opioid withdrawal engenders risk-prone choice: A comparison of intravenous and intranasal-using populations. *Drug and Alcohol Dependence*, 83(2), 130-136.
- *222. Marsch, L. A., Bickel, W. K., Grabinski, M. J., & Badger, G. J. (2006). Applying computer technology to substance abuse prevention science: Results of a preliminary examination. *Journal of Child and Adolescent Substance Abuse*, 16, 69-97.
- *223. Yi, R., Gatchalian, K.M., & Bickel, W.K. (2006). Discounting of past outcomes. *Experimental and Clinical Psychopharmacology*, 14(3), 311-317.
- *224. Yi, R., de la Piedad, X., & Bickel, W. K. (2006). The combined effects of delay and probability in discounting. *Behavioral Processes*, 73(2), 149-155.
225. Bickel, W. K., & Marsch, L. A. (2007). A future for the prevention and treatment of drug abuse: Applications of computer-based interactive technology. In J. Henningfield, P. B. Santora, & W. K. Bickel (Eds.), *Addiction treatment: Science and policy for the twenty-first century*. Baltimore, MD: Johns Hopkins University Press.
- *226. Bickel, W. K., Miller, M. L., Yi, R., Kowal, B. P., Lindquist, D. M., & Pitcock, J. A. (2007). Behavioral- and neuro-economics of drug addiction: Competing neural systems and temporal discounting processes. *Drug and Alcohol Dependence*, 90S, S85-S91. PMID: PMC2033431
- *227. Badger, G. J., Bickel, W. K., Giordano, L.A., Jacobs, E. A., Loewenstein, G., & Marsch, L.A. (2007). Altered states: The impact of immediate craving on the valuation of current and future opioids. *Health Economics*, 26(5), 865-876.
- *228. Chambers, R. A., Bickel, W. K., & Potenza, M. N. (2007). A scale-free systems theory of motivation and addiction. *Neuroscience and Biobehavioral Reviews*, 31, 1017-1045. PMID: PMC2150750
229. Henningfield, J. E., Santora, P. B. & Bickel, W. K. (2007). Addiction art and science: Two sides of humanity. In J. Henningfield, P. B. Santora, & W. K. Bickel (Eds.), *Addiction treatment: Science and policy for the twenty-first century*. Baltimore, MD: Johns Hopkins University Press.
230. Henningfield, J. E., Santora, P. B. & Bickel, W. K. (2007). Preface. In J. Henningfield, P. B. Santora, & W. K. Bickel (Eds.), *Addiction treatment: Science and policy for the twenty-first century*. Baltimore, MD: Johns Hopkins University Press.
231. Henningfield, J. E., Santora, P. B. & Bickel, W. K. (2007). Epilogue. In J. Henningfield, P. B. Santora, & W. K. Bickel (Eds.), *Addiction treatment: Science and policy for the twenty-first century*. Baltimore, MD: Johns Hopkins University Press.
- *232. Johnson, M. W., Bickel, W. K., Baker, F. (2007). Moderate drug use and delay discounting: A comparison of heavy, light, and never smokers. *Experimental and Clinical Psychopharmacology*, 15(2), 187-194.
- *233. Kowal, B. P., Yi, R., Erisman, A. C. & Bickel, W. K. (2007). A comparison of two algorithms in computerized temporal discounting procedures. *Behavioural Processes*, 75, 231-236.
- *234. Marsch, L. A., Bickel, W. K., Badger, G. J., & Quesnel, K. J. (2007). The anatomy of risk: A quantitative investigation into injection drug users' taxonomy of risk attitudes and perceptions. *Experimental and Clinical Psychopharmacology*, 15, 195-203.

235. Marsch, L.A., Bickel, W.K., & Grabinski, M.J. (2007). Application of Interactive Computer Technology to Adolescent Substance Abuse Prevention and Treatment. In Cohall, A.T., Rickert, V. & Ryan, O. (Eds.), *Harnessing Technology for Adolescent Health Promotion. American Academy of Pediatrics*, 342-56.
- *236. Marsch, L. A., Bickel, W. K., & Grabinski, M. J. (2007). Application of interactive, computer technology to adolescent substance abuse prevention and treatment. *Adolescent Medicine: State of the Art Reviews*, 18(2), 342-356. xii. Review. PMID: 18605650.
- *237. Yi, R., Buchhalter, A. R., Gatchalian, K. M., & Bickel, W. K. (2007). The relationship between temporal discounting and the prisoner's dilemma game in intranasal abusers of prescription opioids. *Drug and Alcohol Dependence*, 87(1), 94-97.
- *238. Yi, R., Chase, W. D., & Bickel, W. K. (2007). Probability discounting among cigarette smokers and non-smokers: Molecular analysis discerns group differences. *Behavioural Pharmacology*, 18(7), 633-639. PMID: 17912047.
- *239. Bickel, W. K., Marsch, L. A., Buchhalter, A. R. & Badger, G. J. (2008). Computerized behavior therapy for opioid-dependent outpatients: A randomized controlled trial. *Experimental and Clinical Psychopharmacology*, 16(2), 132-143. PMCID: PMC2746734. doi: 10.1037/1064-1297.16.2.132. PMID: 18489017.
240. Bickel, W. K., & Yi, R. (2008). Temporal discounting as a measure of executive function: Insights from the competing neuro-behavioral decision system hypothesis of addiction. In D. Houser & K. McCabe (Eds), *Neuroeconomics: Advances in health economics and health services research, Vol. 20* (pp.289- 309). Bingley, UK: Emerald Group Publishing Limited. PMCID: PMC89857. PMID:19552313.
- *241. Bickel, W. K., & Yi, R. (2008). Addiction science as a hedgehog and as a fox: Commentary on Redish et. al. *Behavioral and Brain Sciences*, 31, 441-442. PMC Journal – In Process
- *242. Bickel, W. K., Yi, R., Kowal, B. P., & Gatchalian, K. M. (2008). Cigarette smokers discount past and future rewards symmetrically and more than controls: Is discounting a measure of impulsivity? *Drug and Alcohol Dependence*, 96(3) 256-262. PMCID: PMC2701143. doi: 10.1016/j.drugalcdep.2008.03.009. Epub 2008 May 12. PMID:18468814.
- *243. Johnson, M. W., & Bickel, W. K. (2008). An algorithm for identifying nonsystematic delay-discounting data. *Experimental and Clinical Psychopharmacology*, 16(3), 264-274. Correction 16(4), pp. 321. PMCID: PMC2765051. doi: 10.1037/1064-1297.16.3.264. PMID:18540786.
- *244. Kowal, B. P., Bickel, W. K., & Landes, R. D. (2008). Temporal horizons of cigarette satiety: Determining the window of time over which recent smoking influences motivation to smoke. *Behavioural Pharmacology*, 19(4), 339-346. PMCID: PMC2667876. doi: 10.1097/FBP.0b013e3283096833. PMID:18622182.
- *245. Motamed, M., Marsch, L. A., Solhkhah, R., Bickel, W. K., & Badger, G. J. (2008). Differences in treatment outcomes between prescription opioid-dependent and heroin-dependent adolescents. *Journal of Addiction Medicine*, 2(3), 158-164. doi: 10.1097/ADM.0b013e31816b2f84. PMID: 21768987.
- *246. Yi, R., Johnson, M. W., Giordano, L. A., Landes, R. D., Badger, G. J., & Bickel, W. K. (2008). The effects of reduced cigarette smoking on discounting future rewards. An initial evaluation. *The Psychological Record*, 58(2), 163-174. PMID: 23825867.
247. Bickel, W. K., & Jones, B. A. (2009). Behavioral economics. In P. Korsmeyer and H. R. Kranzler (Eds.),

- *248. Bickel, W. K., & Mueller, E. T. (2009). Toward the study of trans-disease processes: A novel approach with special reference to the study of co-morbidity. *Journal of Dual Diagnosis, 5*(2), 131-138. PMCID: PMC2826844
- *249. Bickel, W. K., Pitcock, J. A., Yi, R., Angtuaco, E. J. (2009). Congruence of BOLD response across intertemporal choice conditions: Fictive and real money gains and losses. *Journal of Neuroscience, 29*(27), 8839-8846. PMCID: PMC2749994. doi: 10.1523/JNEUROSCI.5319-08.2009. PMID: 19587291.
250. Bickel, W. K., Yi, R., Mueller, E. T., Jones, B. A., Christensen, D. R. (2009). The behavioral economics of drug dependence: Towards the consilience of economics and behavioral neuroscience. In D. W. Self, and J. K. Staley (Eds), *Behavioral neuroscience of drug addiction, Volume 3* (pp.319-341). Berlin Heidelberg: Springer-Verlag.
- *251. Chopra, M. P., Landes, R. D., Gatchalian, K. M., Jackson, L. C., Buchhalter, A. R., Stitzer, M. L., Marsch, L. A., & Bickel, W. K. (2009). Buprenorphine medication versus voucher contingencies in promoting abstinence from opioids and cocaine. *Experimental and Clinical Psychopharmacology, 17*(4), 226-236. PMCID: PMC2852314. doi: 10.1037/a0016597. PMID: 19653788.
- *252. Jones, B. A., Landes, R. D., Yi, R., & Bickel, W. K. (2009). Temporal horizon: Modulation by smoking status and gender. *Drug and Alcohol Dependence, 104*(S1), S87-S93. PMCID: PMC2732767. doi: 10.1016/j.drugalcdep.2009.04.001. Epub 2009 May 14. PMID:19446407.
- *253. Kirshenbaum, A. P., Olsen, D. M., & Bickel, W. K. (2009). A quantitative review of the ubiquitous relapse curve. *Journal of Substance Abuse Treatment, 36*(1), 8-17. PMCID 3151675. doi: 10.1016/j.jsat.2008.04.001. Epub 2008 Jun 24. Review. PMID:18571890.
- *254. MacKillop, J., Murphy, J. G., Tidey, J. W., Kahler, C. W., Ray, L. A., & Bickel, W. K. (2009). Latent structure of facets of alcohol reinforcement from a behavioral economic demand curve. *Psychopharmacology, 203*(1), 33-40. PMCID: PMC2774887. doi: 10.1007/s00213-008-1367-5. Epub 2008 Oct 17. PMID: 18925387.
255. Marsch, L. A., & Bickel, W. K. (2009). Heroin and other opioids. In L. M. Cohen, F. L. Collins, A. Young, D. E. McChargue, T. R. Leffingwell & K. L. Cook (Eds.) *Pharmacology and treatment of substance abuse: Evidence- and outcome-based perspectives* (pp. 359-373). Florence, KY: Routledge. PMC Journal – In Process
- *256. Mueller, E. T., Landes, R. D., Kowal, B. P., Yi, R., Stitzer, M. L., Burnett, C., & Bickel, W. K. (2009). Delay of smoking gratification as a laboratory model of relapse: Effects of incentives for not smoking, and relationship to measures of executive function. *Behavioural Pharmacology, 20*(5-6), 461-473. PMCID: PMC2886581. doi: 10.1097/FBP.0b013e3283305ec7. PMID:19741301.
- *257. Yi, R., Mitchell, S. H., Bickel, W. K. (2009). Delay discounting and substance abuse. In Madden, G., & Bickel, W. K. (Eds), *Impulsivity: The Behavioral and Neurological Science of Discounting* (pp. 191-211). Washington, DC: American Psychological Association. PMC Journal – In Process
- *258. Yi, R., Landes, R. D., & Bickel, W. K. (2009). Novel models of intertemporal valuation: Past and future outcomes. *Journal of Neuroscience, Psychology, & Economics, 2*(2), 102-111. PMCID: 2821022. PMID: 20157625. DOI: 10.1037/a0017571.
- *259. Bickel, W. K., & Christensen, D. R. (2010). Behavioral economics. In I. Stolerman (Ed). *Encyclopedia of*

Psychopharmacology (205-209). Heidelberg, Germany: Springer-Verlag. PMC Journal.

- *260. Bickel, W.K., Jones, B.A., Landes, R.D., Christensen, D.R., Jackson, L., Mancino, M.J., (2010). Hypothetical Intertemporal Choice and Real Economic Behavior: Delay discounting predicts voucher redemptions during contingency-management procedures. *Experimental and Clinical Psychopharmacology*, 18(6), 546-552. 2010-0439-R PMC Journal. doi: 10.1037/a0021739. PMID:21186929.
- *261. Bickel, W. K., & Yi, R. (2010). Neuroeconomics of addiction: The contribution of executive dysfunction. In D. Ross, H. Kincaid, D. Spurrett, and P. Collins (Eds). *What is addiction?* (pp.1-25). Cambridge, MA: MIT Press. PMC Journal.
- *262. Bickel, W. K., Yi, R., Mueller, E. T., Jones, B. A., Christensen, D. R. (2010). The behavioral economics of drug dependence: Towards the consilience of economics and behavioral neuroscience. *Current Topics in Behavioral Neurosciences*, 3, 319-341. PMID: 211661759. doi:10.1016/j.drugalcdep.2010.10.014. Epub 2010 Dec 4. PMID: 21131143.
- *263. Comer, S. D., Bickel, W. K., Yi, R., de Wit, H., Higgins, S. T., Wenger, G. R., Johansen, C. E., & Kreek, M. J., (2010). Human behavior pharmacology, past, present, and future: Symposium presented at the 50th Annual Meeting of the Behavioral Pharmacology Society. *Behavioral Pharmacology*, 21(4), 251-277. PMC Journal. PMCID: 2913311. doi: 10.1097/FBP.0b013e32833bb9f8. PMID: 20664330.
- *264. Christensen, D. R., Bickel, W. K. (2010). Complements. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 323-323). Heidelberg, Germany: Springer-Verlag.
- *265. Christensen, D. R., Bickel, W. K. (2010). Cross-price elasticity. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 362-362). Heidelberg, Germany: Springer-Verlag.
- *266. Christensen, D. R., Bickel, W. K. (2010). Demand. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 383-383). Heidelberg, Germany: Springer-Verlag.
- *267. Christensen, D. R., Bickel, W. K. (2010). Elasticity. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 457-458). Heidelberg, Germany: Springer-Verlag.
- *268. Christensen, D. R., Bickel, W. K. (2010). Independents. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 629-629). Heidelberg, Germany: Springer-Verlag.
- *269. Christensen, D. R., Bickel, W. K. (2010). Preference reversal. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 1055-1055). Heidelberg, Germany: Springer-Verlag.
- *270. Christensen, D. R., Bickel, W. K. (2010). Substitutes. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 1290-1290). Heidelberg, Germany: Springer-Verlag.
- *271. Christensen, D. R., Bickel, W. K. (2010). Temporal discounting. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 457-458). Heidelberg, Germany: Springer-Verlag.
- *272. Christensen, D. R., Bickel, W. K. (2010). Temporal myopia. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 1305-1305). Heidelberg, Germany: Springer-Verlag.
- *273. Christensen, D. R., Bickel, W. K. (2010). Unit Price. In I. Stolerman (Ed). *Encyclopedia of Psychopharmacology* (pp. 1354-1354). Heidelberg, Germany: Springer-Verlag.
- *274. Epstein, L. H., Salvy, S. J., Carr, K. A., Dearing, K. K., & Bickel, W. K. (2010). Food reinforcement, delay

- discounting and obesity. *Physiology and Behavior*, 100(5), 438-445. PMC Journal. doi: 10.1016/j.physbeh.2010.04.029. Epub 2010 May 21. PMID:20435052.
- *275. Johnson, M. W., Bickel, W. K., Baker, F., Moore, B. A., Badger, G. J., & Budney, A. J. (2010). Delay discounting in current and former marijuana-dependent individuals. *Experimental and Clinical Psychopharmacology*, 18(1), 99-107. PMID: PMC2874198. doi: 10.1037/a0018333. PMID: 20158299.
- *276. Landes, R. D., Pitcock, J. A., Yi, R., & Bickel, W. K. (2010). Analytical methods to detect within-individual changes in discounting. *Experimental and Clinical Psychopharmacology*, 18(2), 175-183. PMC Journal. doi: 10.1037/a0018901. PMID: 20384429.
- *277. Pope, H. G., Kean, J., Nash, A., Kanayama, G., Samuel, D. B., Bickel, W. K., & Hudson, J. I. (2010). A diagnostic interview module for anabolic-androgenic steroid dependence: Preliminary evidence of reliability and validity. *Experimental and Clinical Psychopharmacology*, 18(3), 203-213. PMC Journal. PMID 2913447. doi: 10.1037/a0019370. PMID: 20545384.
- *278. Yi, R., Pitcock, J. A., Landes, R. D., & Bickel, W. K. (2010). The short of it: Abbreviating the temporal discounting procedure. *Experimental and Clinical Psychopharmacology*, 18(4), 366-374. PMC Journal. PMID: 20695693. doi: 10.1037/a0019904. PMID: 2069569.
279. Bickel, W. K., Christensen, D. R., & Marsch, L. A. (2011). A review of computer-based interventions used in the assessment, treatment and research of drug addiction. *Substance Use and Misuse*, 46(1), 4-9. PMC Journal. doi: 10.3109/10826084.2011.521066. PMID: 21190401.
- *280. Bickel, W. K., Jarmolowicz, D. P., Mueller, E. T., Gatchalian, K. M. (2011). The behavioral economics and neuroeconomics of reinforcer pathologies: Implications for etiology and treatment of addiction. *Current Psychiatry Reports*, 13(5), 406-415. PMID: 21732213. doi: 10.1007/s11920-011-0215-1. PMID: 21732213.
- *281. Bickel, W. K., Landes, R. D., Christensen, D. R., Jackson, L., Jones, B. A., Kurth-Nelson, Z. & Redish, A. D. (2011). Single- and cross-commodity discounting among cocaine addicts: The commodity and its temporal location determine discounting rate. *Psychopharmacology*, 217(2), 177-187. PMID: 21487658. doi:10.1007/s00213-011-2272-x. PMID: 21487658.
- *282. Bickel, W. K., Yi, R., Landes, R. D., Hill, P., & Baxter, C. (2011). Remember the future: Working memory training decreases temporal discounting among stimulant addicts. *Biological Psychiatry*. 69(3), 260-265. PMID 20965498. doi: 10.1016/j.biopsych.2010.08.017. Epub 2010 Oct 20. PMID: 20965498.**
- *283. Budney, A.J., Fearer, S.A., Walker, D.D., Stanger, C. Thostenson, J., Grabinski, M., & Bickel, W.K. (2011). An initial trial of a computerized behavioral intervention for cannabis use disorder. *Drug and Alcohol Dependence*, 115(1-2), 74-79. PMC Journal. PMID: 3071451
- *284. Charlton, S. R., Yi, R., Porter, C., Carter, A. E., & Bickel, W. K., Rachlin, H. (2011). Now for me, later for us? Effects of group context on temporal discounting. *Journal of Behavioral Decision Making*, 26(2), 118-127. Doi: 10.1002/bdm.766.
- * 285. Marsch, L. A., Grabinski, M. J., Bickel, W. K., Desrosiers, A., Guarino, H., Muehlbach, B. Solhkhah, R., Taufique, S., & Acosta, M. (2011). Computer-assisted HIV prevention for youth with substance use disorders. *Substance Use and Misuse*, 46(1), 46-56. PMID: 21190405. doi: 10.3109/10826084.2011.521088. PMID: 21190405.
286. Mueller, E. T., Carter, L. P., Bickel, W.K. (2011). Toward a computationally unified behavioral-

economics model of addiction. In B. Gutkin & S. Ahmed (Eds). *Computational neuroscience of drug addiction*. (pp. 285-312) Springer. ISBN: 978-1-4614-0750-8. DOI:10.1007/978-1-4614-0751-5.

- *287. Radu, P. T., Yi, R., Bickel, W. K., Gross, J. J., & McClure, S. M. (2011). A mechanism for reducing delay discounting by altering temporal attention. *Journal of the Experimental Analysis of Behavior*, 96(3), 363-385. PMCID: 3213002. doi: 10.1901/jeab.2011.96-363. PMID: 22084496.
- *288. Yi, R., Charlton, S., Porter, C., Carter, A. E., & Bickel, W. K. (2011). Future altruism: Social discounting of delayed rewards. *Behavioural Processes*, 86(1), 160-163. PMC Journal. PMID 20950676. doi: 10.1016/j.beproc.2010.09.003. Epub 2010 Oct 13. PMID:20950676.
289. Bickel, W. K. (2012). Beyond dichotomies and towards consilience: Comments on Tucker. *Current Anthropology*, 53(2), 167-168.
- *290. Bickel, W. K. (2012). The Emerging New Science of Psychopathology: Commentary on El-Guebaly et al: Compulsive features in behavioral addictions: the case of pathological gambling. *Addiction*, 107(10), 1738-1739. ISSN: 1360-0443 (Electronic) 0965-2140 (Linking). DOI: 10.1111/j.1360-0443.2012.03968.x. PMID: 22962953.
- *291. Bickel, W. K., Jarmolowicz, D. P., MacKillop, J., Epstein, L. H., Carr, K., Mueller, E. T., Waltz, T. J. (2012). The Behavioral Economics of Reinforcement Pathologies: Novel Approaches to Addictive Disorders. In H. J. Shaffer (Ed). *APA Addiction Syndrome Handbook*, Vol.2, Chapter 14. APA Books. DOI: 10.1037/13750-014. ISBN: 978-1-4338-1103-6
- *292. Bickel, W. K., Jarmolowicz, D. P., Mueller, E. T., Franck, C., Carrin, C., Gatchalian, K. (2012). Altruism in time: Social temporal discounting differentiates smokers from problem drinkers. *Psychopharmacology*. ISSN 1432-2072 (electronic) 0033-3158 (linking). DOI: 10.1007/s00213-012-2745-6. PMID: 22644127.
- *293. Bickel, W. K., Jarmolowicz, D. P., Mueller, E. T., Gatchalian, K. M., McClure, S. M. (2012). Are executive function and impulsivity antipodes? A conceptual reconstruction with special reference to addiction. *Psychopharmacology* 221(3), 361-387. ISSN 1432-2072 (electronic) 0033-3158 (linking). DOI: 10.1007/s00213-012-2689-x. PMID: 22441659.
- *294. **Bickel, W. K., Jarmolowicz, D. P., Mueller, E. T., Koffarnus, M. N., Gatchalian, K. M. (2012). Excessive discounting of delayed reinforcers as a trans-disease process contributing to addiction and other disease-related vulnerabilities: Emerging evidence. *Pharmacology & Therapeutics*, 134(3) 287-297. ISSN: 0163-7258. PMID: 22387232.**
- *295. Jarmolowicz, D. P., Bickel, W. K., Carter, A. E., Franck, C. T., Mueller, E. T. (2012). Using crowdsourcing to examine relations between delay and probability discounting. *Behavioural Processes*, 91(3) 308- 112. DOI: 10.1016/j.beproc.2012.09.001. PMID: 22982370 [PubMed - in process]. PMID: 22982370.
- *296. Kurth-Nelson, Z., Bickel, W. K., Redish, A. D. (2012). A theoretical account of cognitive effects in delay discounting. *European Journal of Neuroscience*, 35(7), 1052-1064. 1460-9568 (Electronic)0953-816X (Linking). DOI: 10.1111/j.1460-9568.2012.08058.x
- *297. Landes, R. D., Christensen, D. R., Bickel, W. K. (2012). Delay discounting decreases in those completing treatment for opioid dependence. *Experimental and Clinical Psychopharmacology*, Vol. 20(4) 302-309. ISSN: 1936-2293 (Electronic) 1064-1297 (Linking). DOI: 10.1037/a0027391. PMID: 22369670.
- *298. MacKillop, J., Amlung, M. T., Wier, L., David, S. P., Ray, L. A., Bickel, W. K., Sweet, L. H. (2012). The neuroeconomics of nicotine dependence: A preliminary functional magnetic resonance imaging study

- of delay discounting of monetary and cigarette rewards in smokers. *Psychiatry Research*, 202(1)20-29. ISSN: 0165-1781 (print) 0165-1781 (linking). DOI: 10.1016/j.psychresns.2011.10.003. PMID:22644127.
- *299. Sheffer, C., MacKillop, J., McGeary, J., Landes, R., Carter, L. Yi, R. Jones, B., Christensen, D., Stitzer, M., Jackson, L. Bickel, W. (2012). Delay discounting, locus of control, and cognitive impulsiveness independently predict tobacco dependence treatment outcomes in a highly dependent, lower socioeconomic group of smokers. *The American Journal on Addictions*, 21(3) 221-232. (Electronic) 1055-0496 (Linking). DOI:10.1111/j.1521-0391.2012.00224.x.
- *300. Stanger, C., Budney, A. J., Bickel, W. K. (2012). A developmental perspective on neuroeconomic mechanisms of contingency management. *Psychology of Addictive Behaviors*. 27(2)403-415.[Epub ahead of print – June 4, 2012] PMID 22663343. ISSN: 1939-1501 (Electronic) 0893-164X(Linking). DOI: 10.1037/a0028748. PMID: 22663343.**
- *301. Stanger, C., Ryan, S. R., Fu, H., Landes, R. D., Jones, B. A., Bickel, W. K., Budney, A. J. (2012). Delay discounting predicts adolescent substance abuse treatment outcome. *Experimental and Clinical Psychopharmacology*, 20(3), 205-212. ISSN: 1936-2293 (electronic) 1064-1297 (linking). DOI: 10.1037/a0026543. PMID: 22182419.
3022. Bickel, W. K. (2013). The Market Annexation of Morals, or the Limits and Potential of Economic Thought? Book review of What money can't buy: The moral limits of markets. By Sandel, Michael J. *PsycCRITIQUES*, 58(10).
- *303. Bickel, W. K., Marsch, L. A., Budney, A. J. (2013). Technology-Delivered Treatments for Substance Use Disorders: Current Status and Future Directions. In Miller, P. M. (Ed.). *Interventions for Addiction: Comprehensive Addictive Behaviors and Disorders*, Volume 3, Chapter 29 (pp 275-286). Academic Press.
304. Bickel, W. K., Mueller, E. T., Jarmolowicz, D. P. (2013). What is addiction? *Addictions: A Comprehensive Guidebook*, Second Edition. (pp.3-16) B. McCrady & E. Epstein (Eds). Oxford University Press, New York.
- *305. Jarmolowicz, D. P., Bickel, W. K., Gatchalian, K. M. (2013). Alcohol-dependent individuals discount sex at higher rates than controls. *Drug and Alcohol Dependence*. 131(3), 320-323. ISSN: 1879-0046 (Electronic) 0376-8716 (Linking). DOI: pii: S0376-8716(12)00490-5. 10.1016/j.drugalcdep.2012.12.014. [Epub ahead of print] PMID: 23312341 [PubMed - as supplied by publisher]. PMID: 23312341.
- *306. Jarmolowicz, D. P., Mueller, E. T., Koffarnus, M. N., Carter, A. E., Gatchalian, K. M., Bickel, W. K. (2013). Executive Dysfunction in Addiction. In J. MacKillop & H. de Wit (Eds.). *The Wiley-Blackwell Handbook of Addiction Psychopharmacology*, Chapter 2 (pp 27-62). Wiley-Blackwell.
- *307. Koffarnus, M. N., Jarmolowicz, D. P., Mueller, E. T., Bickel, W. K. (2013). Changing delay discounting in the light of the competing neurobehavioral decision systems theory: A review. *Journal of the Experimental Analysis of Behavior*, 99(1) 32-57. ISSN: 1938-3711 (Electronic) 0022-5002 (Linking). DOI: 10.1002/jeab.2. PMID: 23344987.**
- *308. Oliveto, A., Mancino, M. J., Sanders, N., Cargile, C. S., Guise, J. B., Bickel, W. K., Gentry, W. B. (2013). Effects of prototypic calcium channel blockers in methadone-maintained humans responding under a naloxone discrimination procedure. *European Journal of Pharmacology*. 715(1-3) 424-435. ISSN: 1879-0712 (Electronic) 0014-2999 (Linking). DOI: 10.1016/j.ejphar.2013.03.007. PMCID: 3759565. Accession Number: 23524089.
- *309. Opitz, A., Legon, W., Rowlands, A., Bickel, W. K., Paulus, W., Tyler, W. J. (2013). Physiological

observations validate finite element models for estimating subject-specific electric field distributions induced by transcranial magnetic stimulation of the human motor cortex. *NeuroImage*. 81, 253-264. ISSN: 1095-9572 (Electronic) 1053-8119 (Linking) doi: 10.1016/j.neuroimage.2013.04.067. PMID: 23644000.

- *310. Sanders, N. C., Mancino, M. J., Gentry, W. B., Guise, J. B., Bickel, W. K., Thostenson, J., Oliveto, A. H. (2013). Randomized, placebo-controlled pilot trial of Gabapentin during an outpatient, Buprenorphine-assisted detoxification procedure. *Experimental and Clinical Psychopharmacology*. 21(4), 294-302. ISSN: 1936-2293 (Electronic) 1064-1297 (Linking). DOI: 10.1037/a0033724. Accession Number: 23855333. PMCID: 3972066. PMID: 23855333.
- *311. Sheffer, C. E., Mennemeier, M., Landes, R. D., Bickel, W. K., Brackman, S., Dornhoffer, J., Kimbrell, T., Brown, G. (2013). Neuromodulation of delay discounting, the reflection effect, and cigarette consumption. *Journal of Substance Abuse Treatment*. 45(2), 206-214. ISSN: 1873-6483 (Electronic) 0740-5472 (Linking). DOI: 10.1016/j.jsat.2013.01.012. PMCID: 3690153. Accession Number: 23518286. PMID: 23518286.
- *312. Sheffer, C., Mennemeier, M. S., Landes, R. D., Dornhoffer, J., Kimbrell, T., Bickel, W., Brackman, S., Chelette, K., Brown, G., Vuong, M. (2013). Focal electrical stimulation as an effective sham control for active rTMS and biofeedback treatments. *Applied Psychophysiology and Biofeedback*, 38(3), 171-176. PMID: 23702828. doi: 10.1007/s10484-013-9221-x.
- *313. Somoza, E. C., Winship, D., Gorodetzky, C. W., Lewis, D., Ciraulo, D. A., Galloway, G., Segal, S., Sheehan, M., Roache, J. D., Bickel, W. K., Jasinski, D., Watson, D. W., Miller, S. R., Somoza, P., Winhusen, T. (2013). A multi-site, double-blind, placebo-controlled clinical trial to evaluate the safety and efficacy of Vigabatrin for treating cocaine dependence. *JAMA Psychiatry*. 70(6) 630-637. ISSN: 2168-6238 (Electronic) 2168-622X (Linking). DOI: 10.1001/jamapsychiatry.2013.872. Accession Number: 23575810. PMID: 23575810.
- *314. Upadhyaya, H. P., Desaiah, D., Schuh, K. J., Bymaster, F. P., Kallman, M. J., Clarke, D. O., Durrell, T. M., Trzepacz, P. T., Calligaro, D. O., Nisenbaum, E. S., Emmerson, P. J., Schuh, L.M., Bickel, W. K., Allen, A. J. (2013). A review of the abuse potential assessment of Atomoxetine: A nonstimulant medication for attention-deficit/hyperactivity disorder. *Psychopharmacology*, 226 (2), 189-200. ISSN: 1432-2072 (Electronic) 0033-3158 (Linking). DOI:10.1007/s00213-013-2986-z. PMCID: 3579642. PMID: 23397050.
- *315. **Bickel, W. K., Johnson, M. W., Koffarnus, M. N., MacKillop, J. Murphy, J. G. (2014). The behavioral economics of substance use disorders: Reinforcement pathologies and their repair. *Annual Review of Clinical Psychology*, 10: 641-677. DOI: 10.1146/annurev-clinpsy-032813-153724. PMID: 24679180.**
- *316. ****Bickel, W. K., Koffarnus, M. N., Moody, L., Wilson, A. G. (2014). The behavioral- and neuro-economic process of temporal discounting: A candidate behavioral marker of addiction. *Neuropharmacology*. 76 Pt B, 518-527. ISSN: 1873-7064 (Electronic) 0028-3908 (Linking). DOI: 10.1016/j.neuropharm.2013.06.013. PMCID: 3858579. Accession Number: 23806805. PMID: 23806805. PMCID: PMC4501268.**
****This was an invited, peer-reviewed paper submitted for a special issue of *Neuropharmacology* commemorating NIDA's 40th anniversary.**
- *317. Bickel, W. K., Landes, R. D., Kurth-Nelson, Z, Redish, A. D. (2014). A quantitative signature of self-control repair: rate-dependent effects of successful addiction treatment. *Clinical Psychological Science*. Published online before print March 27, 2014, doi: 10.1177/2167702614528162.
- *318. Bickel, W. K., Moody, L., Quisenberry, A. J., Ramey, C. T., Sheffer, C. E. (2014). A competing neurobehavioral decision systems model of SES-related health and behavioral disparities.

Preventive Medicine, 68, 37-43. pii: S0091-7435(14)00233-3. DOI: 10.1016/j.ypmed.2014.06.032 [Epub ahead of print] Review. PMID: 25008219.

- *319. Bickel, W. K., Wilson, A. G., Franck, C. T., Mueller, E. T., Jarmolowicz, D. P., Koffarnus, M. N., Fede, S. J. (2014). Using crowdsourcing to compare temporal, social temporal, and probability discounting among obese and non-obese individuals. *Appetite*, Apr;75:82-89. doi: 10.1016/j.appet.2013.12.018. Epub 2013 Dec 29. PMID: 24380883.
- *320. Christensen, D. R., Landes, R. D., Jackson, L., Marsch, L. A., Mancino, M., Chopra, M. P., Bickel, W. K. (2014). Adding an internet-delivered treatment to an efficacious treatment package for Opioid dependence. *Journal of Consulting and Clinical Psychology*, 82(6), 964-972. doi: 10.1037/a0037496. Epub 2014 Aug 4.
- *321. Epstein, L. H., Jankowiak, N., Lin, H., Paluch, R., Koffarnus, M. N., Bickel, W. K. (2014). No food for thought: Moderating effects of delay discounting and future time perspective on the relation between income and food insecurity. *American Journal of Clinical Nutrition*. DOI: 10.3945/ajcn.113.079772. PMID: 25008855. PMCID: 4135497.
- *322. Jarmolowicz, D. P., Landes, R. D., Christensen, D. R., Jones, B. A., Jackson, L., Yi, R., Bickel, W. K. (2014). Discounting of money and sex: Effects of commodity and temporal position in stimulant-dependent men and women. *Addictive Behaviors*, 39(11) 1652-7. doi: 10.1016/j.addbeh.2014.04.026. Epub 2014 May 9. PMID: 24857686. [PubMed - in process]
- *323. Jarmolowicz, D. P., Reed, D. D., Bickel, W. K. (2014). Behavioral and Neuro-economic Approaches to Addiction. *Neuropsychological Aspects of Substance Use Disorders: Evidence-Based Perspectives*. Chapter 3 (pp.35-57) ISBN: 978-0-19-993083-8. In D. N. Allen (Ed). Oxford University Press.
- *324. Koffarnus, M. N., Bickel, W. K. (2014). A 5-Trial Adjusting delay discounting task: accurate discount rates in less than one minute. *Experimental and Clinical Psychopharmacology*, 22(3) 222-228. doi: 10.1037/a0035973. Epub 2014 Apr 7. PMID: 24708144.
- *325. McClure, S. M., Bickel, W. K. (2014). A dual systems perspective on addiction: Contributions from neuroimaging and cognitive training. *Annals of the New York Academy of Sciences* (invited manuscript), 1327, 61-78. PMCID: 4285342. DOI: 10.1111/nyas.12561.
- *326. Sheffer, C. E., Christensen, D. R., Landes, R., Carter, L. P., Jackson, L., Bickel, W. K. (2014). Delay discounting rates: A strong prognostic indicator of smoking relapse. *Addictive Behaviors*. Epub Date: 2014/06/01. ISSN: 1873-6327 (Electronic) 0306-4603 (Linking). DOI: 10.1016/j.addbeh.2014.04.019. Accession Number: 24878037. PMID: 24878037.
- *327. Wesley, M. J., Bickel, W. K. (2014). Remember the future II: Meta-analyses and functional overlap of working memory and delay discounting. Invited meta-analyses. *Biological Psychiatry*, 75(6) 435-448. 1873-2402 (Electronic) 0006-3223 (Linking). DOI: 10.1016/j.biopsych.2013.08.008. PMCID: 3943930. Accession Number: 24041504. PMID: 24041504.
- *328. Wesley, M. J., Lohrenz, T., Koffarnus, M. N., McClure, S. M., De La Garza II, R., Salas, R., Thompson-Lake, D. G. Y., Newton, T. F., Bickel, W. K., Montague, P. R. (2014). Choosing money over drugs: The neural underpinnings of difficult choice in chronic cocaine users. *Journal of Addiction*. ISSN: 2090- 7834 (Print), 2090-7850 (Linking). DOI: 10.1155/2014/189853. PMCID: 4150492. Accession Number: 25197609.
- *329. Bickel, W. K. (2015). Discounting of delayed rewards as an endophenotype (invited commentary). *Biological Psychiatry*, 77(10), 846-847. DOI: <http://dx.doi.org/10.1016/j.biopsych.2015.03.003>

330. Bickel, W. K., MacKillop, J., Madden, G. J., Odum, A. L., Yi, R. (2015). Experimental Manipulations of Delay Discounting and Related Processes: An Introduction to the Special Issue. *Journal of the Experimental Analysis of Behavior*, 103(1), 1-9. DOI:10.1002/jeab.133.
- *331. Bickel, W. K., Moody, L., Quisenberry, A.J. (2015). Computerized working-memory training as a candidate adjunctive treatment for addiction. *Alcohol Research: Current Reviews*, 36(1), 123-126.
- *332. Bickel, W. K., Mueller, E. T., MacKillop, J., & Yi, R. (2015). Behavioral economics and neuro-economic perspectives on addiction. In K. Sher (Ed). *The Oxford Handbook of Substance Use and Substance Use Disorders (Volume 1)*. New York: Oxford University Press. ISBN:9780199381678. doi: 10.1093/oxfordhb/9780199381678.001.0001.
- *333. Bickel, W. K., Quisenberry, A. J., Moody, L., Wilson, A. G. (2015). Therapeutic opportunities for self-control repair in addiction and related disorders: Change and the limits of change in trans-disease processes. *Clinical Psychological Science*, 3(1), 140-153. doi: 10.1177/2167702614541260.
- *334. Bickel, W. K., Quisenberry, A. J., Snider, S. E. (2015). Does impulsivity change rate dependently following stimulant administration? A translational selective review and re-analysis. *Psychopharmacology*, 233(1), 1-18. doi: 10.1007/s00213-015-4148-y.
335. Budney, A. J., Marsch, L. A., Bickel, W.K. (2015). Computerized therapies in the treatment of substance use disorders: Toward an Addiction Treatment Technology Test. In N. el-Guebaly, G. Carrà and M. Galanter (Eds). *Textbook of Addiction Treatment: International Perspectives*. Springer Milan Heidelberg New York Dordrecht London. ISBN-13: 978-8847053212 ISBN-10: 8847053218.
- *336. Evans, S. D., Sheffer, C. E., Bickel, W. K., Cottoms, N., Olson, M., Panissidi, L., Austin, T., Stayna, H., Sanborn, V. (2015). The process of adapting the evidence-based treatment for tobacco dependence for smokers of lower socioeconomic status. *Addiction Research & Therapy*, 6(1), 219. DOI: 10.4172/2155-6105.1000219.
- *337. Franck, C.T., Koffarnus, M. N., House, L. L., Bickel, W. K. (2015). Accurate characterization of delay discounting: A multiple model approach using approximate Bayesian model selection and a unified discounting measure. *Journal of the Experimental Analysis of Behavior*, 103(1), 218-233. ISSN: 1938-3711 (Electronic) 0022-5002 (Linking). DOI:10.1002/jeab.128.
- *338. Hamilton, K. R., Mitchell, M. R., Wing, V. C., Balodis, I. M., Bickel, W. K., Fillmore, M., Lane, S. D., Lejuez, C. W., Littlefield, A. K., Luijten, M., Mathias, C. W., Mitchell, S. H., Napier, T. C., Reynolds, B., Schütz, C. G., Setlow, B., Sher, K. J., Swann, A. C., Tedford, S. E., White, M. J., Winstanley, C., Yi, R., Potenza, M. N., Moeller, F. G. (2015). Choice impulsivity: Definitions, measurement issues, and clinical implications. *Personality Disorders: Theory, Research and Treatment*, 6(2), 182-198. ISSN: 1949-2723 (Electronic). DOI:10.1037/per0000099.**
- *339. Higgins, S. T., Bickel, W. K. (2015). Substance Use Disorders: A Theoretical Framework. In I. P. Stolerman and L. H. Price (Eds). *Encyclopedia of Psychopharmacology, Second Edition*, Berlin, DE, Springer-Verlag. ISBN 978-3-642-36171-5.
- *340. Jarmolowicz, D. P., Reed, D. D., Bickel, W. K. (2015). Neuroeconomics: Implications for understanding and treating addictive behavior. In S. Feldstein Ewing, K. Witkiewitz, and F. Filbey (Eds). *Neuroimaging and Psychosocial Addiction Treatment: An Integrative Guide for Researchers and Clinicians*. Palgrave. ISBN: 9781137362643.
- *341. Jarmolowicz, D. P., Reed, D. D., Reed, F. D., Bickel, W. K. (2015). The behavioral and neuroeconomics of

reinforcer pathologies: Implications for managerial and health decision making. *Managerial and Decision Economics*. Published online May 2015. DOI: 10.1002/mde.2716.

- *342. **Kim-Spoon, J., McCullough, M. E., Bickel, W. K., Farley, J. P., & Longo, G. S. (2015). Longitudinal associations among religiousness, delay discounting, and substance use initiation in early adolescence. *Journal of Research on Adolescence*, 25(1), 36-43. PMID: PMC4349435. DOI: 10.1111/jora.12104.**
- *343. Koffarnus, M. N., Franck, C. T., Stein, J. S., Bickel, W. K. (2015). A modified exponential behavioral economic demand model to better describe consumption data. *Experimental and Clinical Psychopharmacology*, 23(6),504-512. doi:10.1037/pha0000045.
- *344. Koffarnus, M, N., Johnson, M. W., Thompson-Lake, D. G. Y., Wesley, M. J., Lohrenz, T., Montague, P. R., Bickel, W. K. (2015). Cocaine-dependent adults and recreational cocaine users are more likely than controls to choose immediate unsafe sex over delayed safer sex. *Drug and Alcohol Dependence*, 146. Doi: <http://dx.doi.org/10.1016/j.drugalcdep.2014.09.356>.
- *345. Koffarnus, M. N., Wilson, A. G., Bickel, W. K. (2015). Effects of experimental income on demand for potentially real cigarettes. *Nicotine and Tobacco Research*, 17(3), 292-298. DOI: 10.1093/ntr/ntu139.
- *346. MacKillop, J., Gray, J. C., Bidwell, L. C., Bickel, W. K., Sheffer, C., McGeary, J. E. (2015). Genetic influences on delay discounting in smokers: Examination of a priori candidates and exploration of dopamine-related haplotypes. *Psychopharmacology*, 232, 3731-3739. doi:10.1007/s00213-015-4029-4.
- *347. Moody, L., Franck, C. T., Hatz, L., Bickel, W. K. (2015). Impulsivity and polysubstance use: A systematic comparison of delay discounting in mono, dual, and tri-substance use. *Experimental and Clinical Psychopharmacology*. PMID: 26691847. (Epub ahead of print).
- *348. Quisenberry, A. J., Eddy, C. R., Patterson, D. L., Franck, C. T., Bickel, W. K. (2015). Regret expression and social learning increases delay to sexual gratification. *PLOS One*, 10 (8), e0135977. doi: 10.1371/journal.pone.0135977.
- *349. Quisenberry, A. J., Koffarnus, M. N., Hatz, L., Bickel, W. K. (2015). The experimental tobacco marketplace: Substitutability as a function of the price of conventional cigarettes. *Nicotine and Tobacco Research*. doi: 10.1093/ntr/ntv230.
- *350. Stein, J. S., Koffarnus, M. N., Snider, S. E., Quisenberry, A. J., Bickel, W. K. (2015). Identification and management of nonsystematic purchase-task data: Towards best practice. *Experimental and Clinical Psychopharmacology*, 23(5), 377-386. doi:10.1037/pha0000020.
- *351. Thomas, J. G., Seiden, A., Koffarnus, M. N., Bickel, W. K., Wing, R. R. (2015). Delayed reward discounting and grit in men and women with and without obesity. *Obesity Science & Practice*, 1(2),131-135. doi: 10.1002/osp4.12.
- *352. Wilson, A. G., Franck, C. T., Mueller, E. T., Landes, R. D., Kowal, B. P., Yi, R., Bickel, W. K. (2015). Predictors of delay discounting among smokers: Education and a utility measure of cigarette reinforcement efficacy are better predictors than demographics, smoking characteristics, executive functioning, or time perception. *Addictive Behaviors*, 45, 124-133. DOI: 10.1016/j.addbeh.2015.01.027. Epub 2015 Jan 22. PMID:25661991.
- *353. Worley, M., Shoptaw, S. J., Bickel, W. K., Ling, W. (2015). Using behavioral economics to predict opioid use during prescription opioid dependence treatment. *Drug and Alcohol Dependence*, 148, 62-68. doi:

- 10.1016/j.drugalcdep.2014.12.018. Epub 2014 Dec 30. PMID:25622776.
- *354. Bickel, W. K., Mellis, A. M., Snider, S. E., Moody, L., Stein, J. S., Quisenberry, A. J. (2016). Novel therapeutics for addiction: Behavioral- and neuro-economic approaches. *Current Treatment Options in Psychiatry*, 3:277. doi: 10.1007/s40501-016-0088-3.
- *355. Bickel, W. K., Moody, L., Higgins, S. (2016). Some Current Dimensions of the Behavioral Economics of Health-Related Behavior Change. *Preventive Medicine*, 92,16-23. DOI: 10.1016/j.ypmed.2016.06.002
356. Bickel, W. K., Snider, S. E., Quisenberry, A. J., Stein, J. S., Hanlon, C. A. (2016) (Invited chapter). Competing neurobehavioral decision systems theory of cocaine addiction: From mechanisms to therapeutic opportunities. In H. Ekhtiari & M. Paulus, Eds. *Progress in Brain Research*. (First Edit, Vol. 223, pp. 269-293. Amsterdam: Elsevier. <http://doi.org/10.1016/bs.pbr.2015.08.002>.
- *357. Bickel, W. K., Wilson, A. G., Chen, C., Koffarnus, M. N., Franck, C. T. (2016). Stuck in Time: Negative income shock constricts the temporal window of valuation spanning the future and the past. *PLOS ONE*. 2016 Sep 15;11(9):e0163051 doi: [10.1371/journal.pone.0163051](http://doi.org/10.1371/journal.pone.0163051).
- *358. Daniel, T. O., Sawyer, A., Dong, Y., Bickel, W. K., Epstein, L. H. (2016). Remembering versus imagining: When does episodic retrospection and episodic prospection aid decision making? *Journal of Applied Research in Memory and Cognition*, 5(3), 352-358. <https://doi.org/10.1016/j.jarmac.2016.06.005>
- *359. Jarmolowicz, D. P., Bickel, W. K., Sofis, M. J., Hatz, L. E., Muller, E. T. (2016). Sunk costs, psychological symptomology, and help seeking. *SpringerPlus.*, 5(1): 1699. DOI 10.1186/s40064-016-3402-z.
- *360. Koffarnus, M. N., Johnson, M. W., Thompson-Lake, D. G. Y., Wesley, M. J., Lohrenz, T., Montague, P. R., Bickel, W. K. (2016). Cocaine-dependent adults and recreational cocaine users are more likely than controls to choose immediate unsafe sex over delayed safer sex. *Experimental and Clinical Psychopharmacology*, Aug; 24(4):297-304. doi: 10.1037/pha0000080.
361. Moody, L. & Bickel, W. K. (2016). Substance use and addictions. In J. Luiselli & A. Fisher (Eds.). *Computer-Assisted and Web-Based Innovations in Psychology, Special Education, and Health*. Oxford: Elsevier. ISBN: 978-0-12-802075-3.
- *362. Moody, L., Franck, C. T., Bickel, W. K. (2016). Comorbid depression, antisocial personality, & substance dependence: Effects on delay discounting. *Drug and Alcohol Dependence*. doi: 10.1016/j.drugalcdep.2016.01.009.
- *363. OConnor, R. J., Heckman, B. W., Adkison, S. E., Rees, V. W., Hatsukami, D. K., Bickel, W. K., Cummings, K. M. (2016-Jun). Persistence and amplitude of cigarette demand in relation to quit intentions and attempts. *Psychopharmacology*, 233(12):2365-71. doi: 10.1007/s00213-016-4286-x. Epub 2016 Apr 6.
- *364. Otto, M. W., Eastman, A., Lo, S., Hearon, B. A., Bickel, W. K., Zvolensky, M., Smits, J. A. J., Doan, S. N. (2016). Anxiety sensitivity and working memory capacity: Risk factors and targets for health behavior promotion. *Clinical Psychology Review* 49:67-78. doi: 10.1016/j.cpr.2016.07.003. Epub 2016 Jul 26.
- *365. Quisenberry, A. J., Bianco, A., Gatchalian, K. M., Kim-Spoon, J., Bickel, W. K. (2016). The temporal

- window of valuation is constricted among adolescent smokers. *Behavioural Processes*, 132, 29-33.
- *366. Quisenberry, A. J., Snider, S. E., Bickel, W. K. (2016). The return of rate dependence: Identifying an alternative source of variability. Commentary submitted to Behavior Analysis section of *Behavior Analysis: Research and Practice*, 16(4), 215-220. 2016-55392-005.
- *367. Sheffer, C. E., MacKillop, J., Fernandez, A., Christensen, D., Bickel, W. K., Johnson, M. W., Panissidi, L., Pittman, J., Franck, C. T., Williams, J., Mathew, M. (2016). Initial examination of priming tasks to decrease delay discounting. *Behavioural Processes*, July; 128:144-52. doi: 10.1016/j.beproc.2016.05.002.
- *368. Snider, S. E., LaConte, S., Bickel, W. K. (2016). Episodic future thinking: Expansion of the temporal window in individuals with alcohol dependence. *Alcoholism: Clinical and Experimental Research*, Jul;40(7):1558-66. doi: 10.1111/acer.13112.
- *369. Snider, S. E., Quisenberry, A. J., Bickel, W. K. (2016). Order in the absence of an effect: Identifying rate dependent relationships. *Behavioural Processes – Special Issue*. doi:10.1016/j.beproc.2016.03.012
- *370. Stein, J. S., Wilson, A. G., Koffarnus, M. N., Daniel, T. O., Epstein, L. H., & Bickel, W. K. (2016). Unstuck in time: Episodic future thinking reduces delay discounting and cigarette smoking. *Psychopharmacology*, 233(21), 3771-3778.
- *371. Wilson, A. G., Franck, C. T., Koffarnus, M. N., Bickel, W. K. (2016). Behavioral economics of cigarette purchases: Within-subject comparison of real, potentially real, and hypothetical cigarettes. *Nicotine & Tobacco Research* 18(5), 524-530. DOI: 10.1093/ntr/ntv154.
- *372. Athamneh, L. N., Stein, J. S., Bickel, W. K. (2017). Will delay discounting predict intention to quit smoking? *Experimental and Clinical Psychopharmacology*, 25(4) 273-280. PMID: PMC5546984 doi: 10.1037/pha0000129. Epub 2017 Jun 19.
- *373. Athamneh, L., Stein, J. S., Quisenberry, A. J., Pope, D., Bickel, W. K. (2017-October). The association between parental history and delay discounting among individuals in recovery from addiction. *Drug and Alcohol Dependence*, 179, 153-158. <https://doi.org/10.1016/j.drugalcdep.2017.06.037>.
- *374. Berman, M. L., Bickel, W. K., Harris, A. C., LeSage, M. G., O'Connor, R. J., Stepanov, I., Shields, P. G., Hatsukami, D. K. (2017-Oct.). Consortium on methods evaluating tobacco: Research tools to inform FDA regulation of Snus. *Nicotine & Tobacco Research*, 20(11). ntx228, <https://doi.org/10.1093/ntr/ntx228>.
 This article was selected as an Editor's Choice article in issue 20(11)
- *375. Bickel, W. K., Moody, L. N., Eddy, C. R., Franck, C. T. (2017-Aug). Neurocognitive dysfunction in addiction: Testing hypotheses of diffuse versus selective phenotypic dysfunction with a classification-based approach. *Experimental and Clinical Psychopharmacology*, 25(4), 322-332. <http://dx.doi.org/10.1037/pha0000115>
- *376. Bickel W. K., Moody, L., Snider, S. E., Mellis, A. M., Stein, J. S., Quisenberry, A. J. (2017). The Behavioral Economics of Tobacco Products: Innovations in Laboratory Methods to Inform Regulatory Science (Invited Chapter). In Y. Hanoch, A. Barnes, T. Rice (Eds.) *Behavioral Economics and Health Behavior*:

- *377. Bickel, W. K., Pope, D. A., Moody, L. N., Snider, S. E., Athamneh, L. N., Stein, J. S., Mellis, A. M. (2017-Mar). Decision-based disorders: The challenge of dysfunctional health behavior and the need for a science of behavior change. *Policy Insights from Behavioral and Brain Sciences* 4(1), 49-56. <https://doi.org/10.1177/2372732216686085>
- *378. Bickel, W. K., Snider, S. E., Quisenberry, A. J., Stein, J. S. (2017). Reinforcer Pathology: The Behavioral Economics of Abuse Liability Testing. *Clinical Pharmacology & Therapeutics*, 101, 185-187. DOI: 10.1002/cpt.443.
- *379. Bickel, W. K., Stein, J. S., Moody, L. N., Snider, S. E., Mellis, A. M., Quisenberry, A. J. (2017). Toward narrative theory: Interventions for reinforcer pathology in health behavior. *Impulsivity: Nebraska Symposium on Motivation*, Vol. 64, 227-267.
- *380. Epstein, L. H., Stein, J. S., Paluch, R. A., MacKillop, J., Bickel, W. K. (2017-Aug). Binary components of food reinforcement: Amplitude and persistence. *Appetite*, 120(1), 67-74. <https://doi.org/10.1016/j.appet.2017.08.023>
- *381. Heckman, B. W., Cummings, K. M., Hirsch, A. A., Quisenberry, A. J., Borland, R., O'Connor, R. J., Fong, G. T., & Bickel, W. K. (2017-July). A novel method for evaluating the acceptability of substitutes for cigarettes: The experimental tobacco marketplace. *Tobacco Regulatory Science*, 3(3), 266-279. <https://doi.org/10.18001/TRS.3.3.3>
- *382. Heckman, B. W., MacQueen, D., Martinez, N., MacKillop, J., Bickel, W. K., Brandon, T. (2017). Self-control depletion and nicotine deprivation as precipitants of smoking cessation failure: A human laboratory model. *Journal of Consulting and Clinical Psychology*, Apr. Vol. 85(4), 381-396. DOI: 10.1037/ccp0000197.
- *383. Kim-Spoon, J., Deater-Deckard, K., Lauharatanahirun, N., Farley, J. P., Chiu, P. H., Bickel, W. K., King-Casas, B. (2017-Sept). Neural interaction between risk sensitivity and cognitive control predicting health risk behaviors among late adolescents. *Journal of Research on Adolescence*, 27(3) 674-682. PMID: PMC5549676. doi: 10.1111/jora.12295. Epub 2016 Nov 16.
- *384. Kim-Spoon, J., **Kahn, R. E., *Lauharatanahirun, N., **Deater-Deckard, K., Bickel, W. K., Chiu, P. H., & King-Casas, B. (2017-June). Executive functioning and substance use in adolescence: Neurobiological and behavioral perspectives. *Neuropsychologia*, 100, 79-92. PMID: PMC5518609 (** = equal contribution) <https://doi.org/10.1016/j.neuropsychologia.2017.04.020>
- *385. Koffarnus, M. N., Deshpande, H. U., Lisinski, J. M., Eklund, A., Bickel, W. K., LaConte, S. M. (2017-Aug). An adaptive, individualized fMRI delay discounting procedure to increase flexibility and optimize scanner time. *NeuroImage*, 161, 56-66. doi: 10.1016/j.neuroimage.2017.08.024. PMID: 28803942.
- *386. Mellis, A. M., Woodford, A. E., Stein, J. S., Bickel, W. K. (2017-Jan). A second type of magnitude effect: Reinforcer magnitude differentiates delay discounting between substance users and controls. *Journal of the Experimental Analysis of Behavior*, 107(1), 151-160. doi:10.1002/jeab.235.
- *387. Moody, L. N., Bickel, W. K. (2017-Apr). Cross-commodity delay discounting of alcohol and money in alcohol users: Evidence of differential valuation systems across commodities. *The Psychological*

- *388. Moody, L. N., Poe, L. M., Bickel, W. K. (2017-Oct). Toward a laboratory model for psychotherapeutic treatment screening: Implementation intentions and incentives for abstinence in an analogue of smoking relapse. *Experimental and Clinical Psychopharmacology*, 25(5), 373-379. doi: 10.1037/pha0000136.
- *389. Moody, L., Satterwhite, E., Bickel, W. K. (2017-Apr). Substance use in rural Central Appalachia: Current status and treatment considerations. *Journal of Rural Mental Health*, 41(2), 123-135. PMID: 29057030 PMCID: PMC5648074 [Available on 2018-04-01] DOI: 10.1037/rmh0000064
- *390. Quisenberry, A. J., Koffarnus, M. N., Epstein, L. H., Bickel, W. K. (2017-Sept). The Experimental Tobacco Marketplace II: Substitutability and sex effects in dual electronic cigarette and conventional cigarette users. *Drug and Alcohol Dependence*, 178, 551-555. <https://doi.org/10.1016/j.drugalcdep.2017.06.004>
- *391. Sheffer, C. E., Bickel, W. K., Franck, C. T., Panissidi, L., Pittman, J., Stayna, H., Evans, S. (2017-Dec). Improving tobacco dependence treatment outcomes for smokers of lower socioeconomic status: A randomized clinical trial. *Drug and Alcohol Dependence*, 181, 177-185. PMID: 29065390 DOI: 10.1016/j.drugalcdep.2017.09.015
- *392. Snider, S. E., Cummings, M., Bickel, W. K. (2017-Aug). Behavioral economic substitution between conventional cigarettes and e-cigarettes differs as a function of the frequency of e-cigarette use. *Drug and Alcohol Dependence*, 177, 14-22. doi: 10.1016/j.drugalcdep.2017.03.017.
- *393. Stein, J. S., Koffarnus, M. N., O'Connor, R. J., Hatsukami, D. K., Bickel, W. K. (2017-July). Effects of filter ventilation on behavioral economic demand for cigarettes: A preliminary investigation. *Nicotine & Tobacco Research*, 1-5. <https://doi.org/10.1093/ntr/ntx164>. PMID: 29065197.
- *394. Stein, J. S., Sze, Y. Y., Athamneh, L., Koffarnus, M. N., Epstein, L. H., Bickel, W. K. (2017-Oct). Think fast: Rapid assessment of the effects of episodic future thinking on delay discounting in overweight/obese participants. *Journal of Behavioral Medicine*, 40(5) 832-838. doi: 10.1007/s10865-017-9857-8. PMID: 28508382
- *395. Stein, J. S., Wilson, A. G., Koffarnus, M. N., Judd, M. C., Bickel, W. K. (2017). Naturalistic assessment of demand for cigarettes, snus, and nicotine gum. *Psychopharmacology*, 234(2) 245-254. DOI: 10.1007/s00213-016-4455-y
- *396. Sze, Y. Y., Slaven, E. M., Bickel, W. K., Epstein, L. H. (2017). Delay discounting and utility for money or weight loss. *Obesity Science & Practice*, Mar. 3(1), 69-74. doi: 10.1002/osp4.72. Epub 2017 Feb 14.
- *397. Sze, Y., Stein, J. S., Bickel, W. K., Paluch, R., & Epstein, L. H. (2017). Bleak present, bright future: Online episodic future thinking, scarcity, and demand for fast food. *Clinical Psychological Science*, 5(4) 683-697. DOI: 10.1177/2167702617696511 www.psychologicalscience.org/CPS
- *398. Athamneh, L. N., Stein, J. S., Amlung, M., Bickel, W. K. (2018-Sept). Validation of a brief behavioral economic assessment of demand among cigarette smokers. *Experimental and Clinical Psychopharmacology*. 2018 Sep 27. doi: 10.1037/pha0000228. [Epub ahead of print] <https://www.ncbi.nlm.nih.gov/pubmed/30265063>

- *399. Berman, M. L., Bickel, W. K., Harris, A. C., LeSage, M. G., O'Connor, R. J., Stepanov, I., Shields, P. G., Hatsukami, D. K. (2018). Consortium on Methods Evaluating Tobacco: Research Tools to Inform US Food and Drug Administration Regulation of Snus. *Nicotine an Tobacco Research*, 2018 Sep 25;20(11):1292-1300. doi: 10.1093/ntr/ntx228.
- *400. Bickel, W. K., Crabbe, J. C., Sher, K. J. (2018-Oct). What is addiction? How can animal and human research be used to advance research, diagnosis, and treatment of alcohol and other substance use disorders? *Alcoholism: Clinical and Experimental Research*. 2018 Oct 29. doi: 10.1111/acer.13912. [Epub ahead of print] <https://www.ncbi.nlm.nih.gov/pubmed/30371956>
- *401. Bickel, W. K., Mellis, A. M., Snider, S. E., Athamneh, L. N., Stein, J. S., Pope, D. A. (2018-Jan.). 21st century neurobehavioral theories of decision making in addiction: Review and evaluation. *Pharmacology, Biochemistry, and Behavior*, 164, 4-21. PMID: 28942119 PMCID: PMC5747999. doi: 10.1016/j.pbb.2017.09.009
- *402. Bickel, W. K., Moody, L. N., Koffarnus, M. N., Thomas, J. G., Wing, R. (2018-May). Self-control as measured by delay discounting is greater among successful weight losers than controls. *Journal of Behavioral Medicine*, 41(6) 891-896. PMID: 29766471 PMCID: PMC6237669 [Available on 2019-11-15] DOI: 10.1007/s10865-018-9936-5.
- *403. Bickel, W. K., Pope, D. A., Kaplan, B. A., DeHart, W. B., Koffarnus, M. N., Stein, J. S. (2018-Apr). Electronic cigarette substitution in the experimental tobacco marketplace: A review. *Preventive Medicine, Special Issue*. pii: S0091-7435(18)30137-3. doi: 10.1016/j.ypmed.2018.04.026.
- *404. DeHart, W. B., Kaplan, B. A., Pope, D. A., Mellis, A. M., Bickel, W. K. (2018-Aug). The Experimental Tobacco Marketplace: Narrative influence on electronic cigarette substitution. *Experimental and Clinical Psychopharmacology*. 2018 Nov 5. doi: 10.1037/pha0000233. [Epub ahead of print] <https://www.ncbi.nlm.nih.gov/pubmed/30394764>. doi: 10.1037/pha0000233
- *405. Epstein, L. H., Paluch, R. A., Carr, K. A., Temple, J. L., Bickel W. K., MacKillop, J. (2018-Apr). Reinforcing value and hypothetical behavioral economic demand for food and their relation to BMI. *Eating Behaviors*, 29:120-127. doi: 10.1016/j.eatbeh.2018.03.008.
- *406. Hall, P. A., Bickel, W. K., Erickson, K. I., Wagner, D.D. (2018-June). Neuroimaging, neuromodulation, and population health: The neuroscience of chronic disease prevention. *Annals of the New York Academy of Sciences*, 1428(1) 240-256. <https://doi.org/10.1111/nyas.13868>
- *407. Hanlon, C. A., Phillip, N. S., Price, R., Bickel, W. K. (2018-Aug). A case for the frontal pole as an empirically-derived neuromodulation treatment target. *Biological Psychiatry*, 85(3):e13-e14. pii: S0006-3223(18)31666-4. doi: 10.1016/j.biopsych.2018.07.002. Epub 2018 Aug 17.
- *408. Heckman, B. W., Cummings, K. M., Nahas, G. J., Willemsen, M. C., O'Connor, R. J., Borland, R., Hirsch, A. A., Bickel, W. K., Carpenter, M. J. (2018-Mar). Behavioral economic purchase tasks to estimate demand for novel nicotine/tobacco products and prospectively predict future use: Evidence from the Netherlands. *Nicotine & Tobacco Research*. <https://doi.org/10.1093/ntr/nty042> [Epub ahead of print]
- *409. Heckman, B. W., Fong, G. T., Borland, R., Hitchman, S., O'Connor, R. J., Bickel, W. K., Stein, J. S., Yong,

- H., Nahhas, G. J., Pope, D. A., Shang, C., Cheng, K., Levy, D. T., Cummings, K. M. (2018). The impact of vaping and regulatory environment on cigarette demand: Behavioral economic perspective across four countries. *Addiction*, 111 Suppl 1:123-133. DOI: [10.1111/add.14538](https://doi.org/10.1111/add.14538)
- *410. Humphreys, K. N., Bickel, W. K. (2018-Sept). Toward a neuroscience of long-term recovery from addiction. *JAMA Psychiatry*, 75(9):875-876. doi:10.1001/jamapsychiatry.2018.0956.
- *411. Koffarnus, M. N., Bickel, W. K., Kablinger, A. (2018-Oct). Remote alcohol monitoring to facilitate incentive-based treatment for alcohol use disorder: A randomized trial. *Alcoholism: Clinical and Experimental Research*, 42(12). doi: 10.1111/acer.13891. Epub 2018 Oct 18.
- *412. Kwako, L. E., Bickel, W. K., Goldman, D. (2018-Feb.). Addiction biomarkers and dimensional approaches to understanding addiction. *Trends in Molecular Medicine*, 24(2), 121-128. DOI: <https://doi.org/10.1016/j.molmed.2017.12.007>
- *413. Ma, L., Steinberg, J. L., Bjork, J. M., Keyser-Marcus, L., Vassileva, J., Zhu, M., Ganapathy, V., Wang, Q., Boone, E. L., Ferré, S., Bickel, W. K., Moeller, F. G., (2018-Aug). Fronto-striatal effective connectivity of working memory in adults with cannabis use disorder. *Psychiatry Research: Neuroimaging*, 278, 21-34. <https://doi.org/10.1016/j.psychresns.2018.05.010>
- *414. Mellis, A. M., Athamneh, L. N., Stein, J. S., Sze, Y. Y., Epstein, L. H., Bickel, W. K. (2018-Oct). Less is more: Negative income shock increases immediate preference in cross commodity discounting and food demand. *Appetite*, 129, 155-161. <https://doi.org/10.1016/j.appet.2018.06.032>
- *415. Mellis, A., Snider, S. E., Bickel, W. K. (2018-Jan.). Narrative theory: II. Self-generated and experimenter-provided negative income shock narratives increase delay discounting. *Experimental and Clinical Psychopharmacology*, Apr;26(2):113-118. doi: 10.1037/pha0000168. Epub 2018 Jan 15.
- *416. Moody, L. N., Tegge, A., Poe, L. M., Koffarnus, M. N., Bickel, W. K. (2018). To drink or to drink less? Distinguishing between effects of implementation intentions on decisions to drink and how much to drink in treatment-seeking individuals with alcohol use disorders. *Addictive Behaviors*, 83, 64-71. Special Issue, pii: S0306-4603(17)30419-7. PMID: 29153992 DOI: 10.1016/j.addbeh.2017.11.010
- *417. O'Donnell, S., Daniel, T. O., Koroschetz, J., Kilanowski, C., Otiminski, A., Bickel, W. K., Epstein, L. H. (2018-Oct). Do process simulations during episodic future thinking enhance the reduction of delay discounting for middle income participants and those living in poverty? *Journal of Behavioral Decision Making*. DOI: 10.1002/bdm.2108
- *418. Pope, D. A., Poe, L., Stein, J. S., Kaplan, B. A., Heckman, B. W., Epstein, L. H., Bickel, W. K. (2018). The experimental tobacco marketplace: Substitutability of e-cigarette liquid for cigarettes as a function of nicotine strength. *BMJ: Tobacco Control*, 28(2), 206-211. doi: 10.1136/tobaccocontrol-2017-054024
- *419. Pope, D. A., Poe, L., Stein, J. S., Snider, S. E., Bianco, A. G., Bickel, W. K. (2018-Nov). Past and future preference reversals are predicted by delay discounting in smokers and non-smokers. *Experimental and Clinical Psychopharmacology*, 27(1):19-28. doi: 10.1037/pha0000224. Epub 2018 Nov 1.
- *420. Sheffer, C. E., Bickel, W. K., Brandon, T. H., Franck, C. T., Deen, D., Panissidi, L., Abdali, S. A., Pittman, J. C., Lunden, S. E., Prashad, N., Malhotra, R., Mantovani, A. (2018-Jan). Preventing relapse to smoking

- with transcranial magnetic stimulation: Feasibility and potential efficacy. *Drug and Alcohol Dependence*, 182, 8-18. PMID: 29120861 DOI: 10.1016/j.drugalcdep.2017.09.037
- *421. Sheffer, C. E., Miller, A., Bickel, W. K., Devonish, J. A., O'Connor, R. J., Wang, C., Rivard, C., Gage-Bouchard, E. A. (2018). The treasure of now and an uncertain future: Delay discounting and health behaviors among cancer survivors. *Cancer*, 124(24), 4711–4719. doi:10.1002/cncr.31759. <https://doi.org/10.1002/cncr.31759>.
- *422. Snider, S. E., Deshpande, H. U., Lisinski, J. M., Koffarnus, M. N., LaConte, S. M., Bickel, W. K. (2018-Feb). Working memory training improves alcohol users' episodic future thinking: A rate dependent analysis. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 3(2) 160-167. doi:[10.1016/j.bpsc.2017.11.002](https://doi.org/10.1016/j.bpsc.2017.11.002). PMID: 29529411.
- *423. Stein, J. S., Heckman, B. W., Pope, D. A., Perry, E. S., Fong, G. T., Cummings, K. M., Bickel, W. K. (2018-Oct). Delay discounting and E-cigarette use: An investigation in current, former, and never cigarette smokers. *Drug and Alcohol Dependence*, 191, 165-173. <https://doi.org/10.1016/j.drugalcdep.2018.06.034>
- *424. Stein, J. S., Koffarnus, M. N., Stepanov, I., Hatsukami, D. K., Bickel, W. K. (2018). Cigarette and e-liquid demand and substitution in e-cigarette-naïve smokers. *Experimental and Clinical Psychopharmacology*, 26(3), 233-243. doi: 10.1037/pha0000192. PMID: 29863381.
- *425. Stein, J. S., Tegge, A. N., Turner, J. K., Bickel, W. K. (2018). Episodic future thinking reduces delay discounting and cigarette demand: An investigation of the good-subject effect. *Journal of Behavioral Medicine*. 2018 Apr;41(2):269-276. doi: 10.1007/s10865-017-9908-1. Epub 2017 Dec 21.
- *426. Athamneh, L. N., DeHart, W. B., Pope, D. A., Mellis, A. M., Snider, S. E., Kaplan, B. A., Bickel, W. K. (2019). The phenotype of recovery III: Delay discounting predicts abstinence self-efficacy among individuals in recovery from substance use disorders. *Psychiatry of Addictive Behaviors*, 33(3), 310-317. doi: 10.1037/adb0000460. Epub 2019 Mar 21
- *427. Athamneh, L. N., Stein, J. S., Bickel, W. K. (Aug-2019). Narrative Theory III: Evolutionary Narratives Addressing Mating Motives Change Discounting and Tobacco Valuation. *Experimental and Clinical Psychopharmacology*. Advance online publication. <https://doi.org/10.1037/pha0000315>
- *428. Bechara, A., Berridge, K. C., Bickel, W. K., Morón, J. A., Williams, S. B., Stein, J. S. (2019-Oct). A neurobehavioral approach to addiction: Implications for the opioid epidemic and the psychology of addiction. *Psychological Science in the Public Interest*, 20(2), 96-127. <https://doi.org/10.1177/1529100619860513>
- *429. Bickel, W. K., Athamneh, L. N. (2019). A reinforcer pathology perspective on relapse. *Journal of the Experimental Analysis of Behavior*, 113(1), 48-56. Special Issue. <https://doi.org/10.1002/jeab.564> PMID: 31789442.
- *430. Bickel, W. K., Athamneh, L. N., Basso, J. C., Mellis, A. M., DeHart, W. B., Craft, W. H., Pope, D. A. (2019). Excessive discounting of delayed reinforcers as a trans-disease process: Update on the state of the science. *Current Opinion in Psychology*, 30, 59-64. <https://doi.org/10.1016/j.copsy.2019.01.005>

- *431. Bickel, W. K., Snider, S. E., & Mellis, A. M. (2019-July). Using an experimental medicine approach to identify novel determinants of addiction. *Perspectives in Behavioral Science*, 42(3) 3853-396. DOI: [10.1007/s40614-019-00215-0](https://doi.org/10.1007/s40614-019-00215-0)
- *432. Carroll, D. M., Strayer, L., Nardone, N., Pacek, L. R., Kozink, R. V., Tessier, K. McClernon, J. Benowitz, N., Bickel, W. K., Hatsukami, D. (2019). Development and piloting testing of an Experimental Tobacco and Nicotine Product Marketplace. *Nicotine and Tobacco Research*. pii: ntz195. doi: 10.1093/ntr/ntz195. [Epub ahead of print]
- *433. Coughlin, L. N., Tegge, A. N., Sheffer, C., Bickel, W. K. (2019). A machine learning approach to predicting smoking cessation treatment outcomes. *Nicotine & Tobacco Research*, 22(3), 415-422. nty259. PMID: 30508122. PMCID: PMC7297111. doi: <https://doi.org/10.1093/ntr/nty259>
- *434. DeHart, W. B., Mellis, A. M., Kaplan, B. A., Pope, D. A., Bickel, W. K. (2019-Apr). The Experimental Tobacco Marketplace: Narratives engage cognitive biases to increase electronic cigarette substitution. *Drug and Alcohol Dependence*, 197,203-211. <https://doi.org/10.1016/j.drugalcdep.2019.01.020>
- *435. Deshpande, H. U., Mellis, A. M., Lisinski, J. M., Stein, J. S., Koffarnus, M. N., Paluch, R., Schweser, F., Zivadnov, R., LaConte, S. M., Epstein, L. H., Bickel, W. K. (2019-June). Reinforcer pathology: Common neural substrates for delay discounting and snack purchasing in prediabetics. *Brain and Cognition*, 132, 80-88. <https://doi.org/10.1016/j.bandc.2019.03.003>
- *436. Ding, T., Bickel, W. K., Pan, S. (2019-June). Predicting delay discounting from heterogeneous social media data. *Social Network Analysis and Mining*. 9: 27. <https://doi.org/10.1007/s13278-019-0574-x>
- *437. Epstein, L. H., Paluch, R. A., Stein, J. S., Mellis, A. M., Quattrin, T., Mastrandrea, L. D., Bree, K. A., Greenawald, M. H., Bickel, W. K. (2019). Role of delay discounting in predicting change in HBA1c for individuals with prediabetes. *Journal of Behavioral Medicine*, 42(5), 851-859. <https://doi.org/10.1007/s10865-019-00026-3>
- *438. Franck, C. T., Koffarnus, M. N., McKerchar, T. L., Bickel, W. K. (2019). An overview of Bayesian reasoning in the analysis of delay-discounting data. *Journal of the Experimental Analysis of Behavior*, 111(2), 239-251, DOI: 10.1002/jeab.504.
- *439. Kaplan, B. A., Pope, D. A., DeHart W. B., Stein, J. S., Bickel, W. K., Koffarnus, M. N. (2019-April). Estimating uptake for reduced-nicotine cigarettes using behavioral economics. *Tobacco Regulatory Science*, 5, 264-279. DOI: 10.18001/TRS.5.3.5
- *440. Kim-Spoon, J., Lauharatanahirun, N., Peviani, K., Brieant, A. Deater-Deckard, K., Bickel, W. K., King-Casas, B. (2019-Feb). Longitudinal pathways linking family risk, neural risk processing, delay discounting, and adolescent substance use. *The Journal of Child Psychology and Psychiatry*, 60:6, 655-664. doi: 10.1111/jcpp.13015.
- *441. Madden G. J., McClure S., Bickel W. K. (2019) Collaborating to move the laboratory findings into public health domains: Maxims for translational research. In: Hall K., Vogel A., Croyle R. (eds) Strategies for Team Science Success. Springer, Cham

- *442. Mellis, A. M., Snider, S. E., Deshpande, H. U., LaConte, S. M., Bickel, W. K. (2019-Nov.). Practicing prospection promotes patience: Repeated episodic future thinking cumulatively reduces delay discounting. *Drug and Alcohol Dependence*, 204. <https://doi.org/10.1016/j.drugalcdep.2019.06.010>.
- *443. O'Donnell, S., Daniel, T. O., Koroschetz, J., Kilanowski, C., Otminski, A., Bickel, W. K., Epstein, L. H. (2019). Do process simulations during episodic future thinking enhance the reduction of delay discounting for middle income participants and those living in poverty? *Behavioral Decision Making*, 32(3) 231-240. <https://doi.org/10.1002/bdm.2108>
- *444. Nighbor, T. D., Zvorsky, I., Kurti, A. N., Skelly, J. M., Bickel, W. K., Reed, D. D., Naudé, G. P., Higgins, S. T. (2019). Examining interrelationships between the Cigarette Purchase Task and delay discounting among pregnant women. *Journal of Experimental Analysis of Behavior*, 111(3) 405-415. doi: 10.1002/jeab.499. Epub 2019 Jan 25.
- *445. Peviani, K. M., Kahn, R., Maciejewski, D., Bickel, W. K., Deater-Deckard, K., King-Casas, B., Kim-Spoon, J. (2019-Apr). Intergenerational transmission of delay discounting: The mediating role of household chaos. *Journal of Adolescence*, 72, 83-90. <https://doi.org/10.1016/j.adolescence.2019.03.002>
- *446. Phung, Q., Snider, S. E., Tegge, A. N., Bickel, W. K. (2019-May). Willing to work but not to wait: Individuals with alcohol use disorder show increased delay discounting across commodities and less effort discounting for alcohol. *Alcoholism: Clinical and Experimental Research (ACER)*, 43 (5), 927-936. <https://doi.org/10.1111/acer.13996>
- *447. Pope, D. A., Poe, L., Stein, J. S., Kaplan, B. A., DeHart, W. B., Mellis, A. M., Heckman, B. W., Epstein, L. H., Chaloupka, F. J., Bickel, W. K. (2019-July). The Experimental Tobacco Marketplace: Demand and substitutability as a function of cigarette taxes and e-liquid subsidies. *Nicotine & Tobacco Research*, 22(5) 782-790. PMID: 31350894. PMCID: PMC7171289. DOI: 10.1093/ntr/ntz116 <https://doi.org/10.1093/ntr/ntz116>
- *448. Quisenberry, A. J., Pittman, J., Goodwin, R. D., Bickel, W. K., D'Urso, G., Sheffer, C. E. (2019). Smoking relapse risk is increased among individuals in recovery. *Drug and Alcohol Dependence*, Sep 1, 202:93-103. doi: 10.1016/j.drugalcdep.2019.07.001. Epub 2019 Jul 8
- *449. Shevorykin, A., Pittman, J. C., Bickel, W. K., O'Connor, R. J., Malhotra, R., Prashad, N., Sheffer, C. E. (2019-July). Primed for health: Future thinking priming decreases delay discounting. *Health Behavior and Policy Review*, 6(4) 363-377. DOI: 10.14485/HBPR.6.4.5.
- *450. Snider, S. E., DeHart, W. B., Epstein, L. H., Bickel, W. K. (2019). Does delay discounting predict maladaptive health and financial behaviors in smokers? *Health Psychology*, 38(1), 21. <https://doi.org/10.1037/hea0000695>
- *451. Snider, S. E., Mellis, A. M., Poe, L. M., Kocher, M. A., Turner, J. K., Bickel, W. K. (2019-Sept.). Reinforcer Pathology: Narrative of hurricane-associated loss increases delay discounting, demand, and consumption of highly palatable snacks in the obese. *Psychology of Addictive Behavior*, 34(1):136-146. *Special Issue Honoring Nancy Petry*. doi: 10.1037/adb0000498. [Epub ahead of print]. PMID: 31478704. <https://doi.org/10.1037/adb0000498>
- *452. Wang, T., Mellis, A. M., Lau, N., Bickel, W. K. (2019). Integrating episodic future thinking into virtual reality to mitigate substance use disorders: A theoretical framework. *Proceedings of the Human Factors*

and Ergonomics Society Annual Meeting. <https://doi.org/10.1177/1071181319631026>

- *453. Athamneh, L., Stein, M. D., Lin, E. H., Stein, J. S., Mellis, A. M., Gatchalian, K. M., Epstein, L. H., Bickel, W. K. (2020-Mar). Setting a goal could help you control: Comparing the effect of health goal vs general episodic future thinking on health behaviors among cigarette smokers and obese individuals. *Experimental and Clinical Psychopharmacology*. PMID: 32191071. DOI: 10.1037/pha0000351
- *454. Bickel, W. K., Athamneh, L. N., Snider, S. E., Craft, W. H., DeHart, W. B., Kaplan, B. A., Basso, J. C. (2020 May 28). Reinforcer Pathology: Implications for substance abuse intervention. In H. deWit & J. D. Jentsch, (Eds.), *Recent Advances in Research on Impulsivity and Impulsive Behaviors*. Springer. doi: 10.1007/7854_2020_145. Online ahead of print. PMID: 32462615
- *455. Bickel, W. K., Stein, J. S., Paluch, R. A., Mellis, A. M., Athamneh, L. N., Quattrin, T., Greenawald, M. H., Bree, K. A., Gatchalian, K. M., Mastrandrea, L. D., Epstein, L. H. (2020-Sept). Does episodic future thinking repair immediacy bias at home and in the laboratory in patients with prediabetes? *Psychosomatic Medicine*, 82(7):699-707. PMID: 32868537. doi: 10.1097/PSY.0000000000000841.
- *456. Carl, E., Liskiewicz, A., Rivard, C., Alberico, R., Belal, A., Mahoney, M. C., Quisenberry, A. J., Bickel, W. K., and Sheffer, C. E. (2020-May 1). Dosing parameters for the effects of high-frequency transcranial magnetic stimulation on smoking cessation: Study protocol for a randomized factorial sham-controlled clinical trial. *BMC Psychology*, 8(1)42. Published online 2020 May 1. PMCID: PMC7193364. PMID: 32357940. DOI: 10.1186/s40359-020-00403-7.
- *457. Carroll, D. M., Strayer, L., Nardone, N., Pacek, L. R., Kozink, R. V., Tessier, K., McClernon, J., Benowitz, N., Bickel, W. K., Hatsukami, D. (2020-June). Development and piloting testing of an experimental tobacco and nicotine product marketplace. *Nicotine and Tobacco Research*, 22(7), 1230-1234. PMID: 31603515. PMCID: PMC7291811 (available on 2020-10-11) DOI: 10.1093/ntr/ntz195.
- *458. Craft, W. H., Tegge, A. N., Bickel, W. K. (2020-Oct.). Episodic future thinking reduces chronic pain severity: A proof-of-concept study. *Drug and Alcohol Dependence*, 215. <https://doi.org/10.1016/j.drugalcdep.2020.108250>
- *459. Ding, T., Hasan, F., Bickel, W. K., Pan, S. (2020-June). Building high performance explainable machine learning models for social media-based substance use prediction. *International Journal of Artificial Intelligence Tools*, 29(03n04):2060009. DOI: [10.1142/S021821302060009X](https://doi.org/10.1142/S021821302060009X)
- *460. Epstein, L. H., Paluch, R. A., Stein, J. S., Quattrin, T., Mastrandrea, L. D., Bree, K. A., Sze, Y. Y., Greenawald, M. H., Biondolillo, M. J, Bickel, W. K. (2020-Apr). Delay discounting, glycemic regulation and health behaviors in adults with prediabetes. *Behavioral Medicine*, 1-11. PMID: 32275202. DOI: 10.1080/08964289.2020.1712581. [Epub ahead of print]
- *461. Hayes, J. F., Balantekin, K. N., Graham, A. K., Strube, M. J., Bickel, W. K., & Wilfley, D. E. (2020-May). Implementation intentions for weight loss in college students with overweight and obesity: A proof-of-concept randomized-controlled trial. *Translational Behavioral Medicine*. Online ahead of print. PMID: 32359068. DOI: 10.1093/tbm/ibaa038.
- *462. Kim-Spoon, J., Herd, T., Brieant, A., Peviani, K. M., Lauharatanahirun, N., Lee, J., Deater-Deckard, K., Bickel, W. K., King-Casas, B. (2020-July). Bidirectional links between adolescent brain function and substance use moderated by cognitive control. *The Journal of Child Psychology and Psychiatry*. PMID: 32640083. doi: 10.1111/jcpp.13285.
- *463. Mellis, A. M., Bickel, W. K. (2020-March). Mechanical turk data collection in addiction research: Utility, concerns and best practices. *Addiction*. Invited manuscript for Addiction Methods & Techniques Series.

PMID: 32135574. <https://doi.org/10.1111/add.15032>

- *464. Otto, M. W., Rosenfield, D., Gorlin, E. I., Hoyt, D. L., Patten, E. A., Bickel, W. K., Zvolensky, M. J., Doan, S. N. (2020-May) Targeting cognitive and emotional regulatory skills for smoking prevention in low-SES youth: A randomized trial of mindfulness and working memory interventions. *Addictive Behaviors*, 104:106262. PMID: 31918169. DOI: 10.1016/j.addbeh.2019.106262.
- *465. Otto, M. W., Zvolensky, M. J., Rosenfield, D., Hoyt, D. L., Witkiewitz, K., McKee, S. A., Bickel, W. K., Smits, J. A. (2020-Sept). A randomized controlled trial protocol for engaging distress tolerance and working memory to aid smoking cessation in low socioeconomic status (SES) adults. *Health Psychology*, 39(9):815-825. PMID: 32833483. doi: 10.1037/hea0000858.
- *466. Sheffer, C. E., Stein, J. S., Petrucci, C., Mahoney, M. C., Johnson, S., Giesie, P., Carl, E., Krupski, L., Tegge, A. N., Reid, M. E., Bickel, W. K., Hyland, A. (2020-May). Tobacco dependence treatment in oncology: Initial patient clinical characteristics and outcomes from Roswell Park Comprehensive Cancer Center. *International Journal of Environmental Research and Public Health*, 17(11), 3907. Special Issue Tobacco Use and Treatment among Cancer Survivors. PMCID: PMC7312979. PMID: 32486463. Published online 2020 May 31. doi: 10.3390/ijerph17113907
- *467. Athamneh, L. N., Freitas Lemos, R., Basso, J. C., Tomlinson, D. C., Craft, W. H., Stein, M. D., Bickel, W. K. (in press). The phenotype of recovery II: The association between delay discounting, self-reported quality of life, and remission status among individuals in recovery from substance use disorders. *Experimental and Clinical Psychopharmacology*.
- *468. Bickel, W. K., Tegge, A. N., Carr, K. A., Epstein, L. H. (in press). Reinforcer pathology's alternative reinforcer hypothesis: A preliminary examination. *Health Psychology*. [https://authors.elsevier.com/sd/article/S0376-8716\(20\)30415-4](https://authors.elsevier.com/sd/article/S0376-8716(20)30415-4)
- *469. Coughlin, L. N., Bonar, E. E., Bickel, W. K. (in press). Considerations for remote delivery of behavioral economic interventions for substance use disorder during COVID-19 and beyond. *Journal of Substance Abuse Treatment*. (commentary)
- *470. DeHart, W. B., Snider, S. E., Pope, D. A., Bickel, W. K. (in press). Reinforcer pathology model of health behaviors in individuals with obesity. *Health Psychology*.
- *471. Stein, J. S., Craft, W. H., Paluch, R. A., Gatchalian, K., Greenawald, M. H., Quattrin, T., Mastrandrea, L. D., Epstein, L. H., Bickel, W. K. (in press). Bleak present, bright future: II. Combined effects of episodic future thinking and scarcity on delay discounting in adults at risk for Type 2 Diabetes. *Journal of Behavioral Medicine*.

Manuscripts in Preparation/Submitted

1. Ruhi, P., Stein, J. S., Bickel, W. K. (under review). Episodic future thinking specific to smoking-related illness: Effects on delay discounting, cigarette demand, and cigarette craving. *Journal of Behavioral Medicine*.
2. Sullivan-Toole, H., Quisenberry, A. J., Bickel, W. K. (under review). Perceived control in addiction recovery: The cross-domain internality-externality interaction that predicts abstinence.
3. Stein, J. S., Mellis, A. M., Wrenn, J. E., & Bickel, W. K. (under review). Negative income shock increases delay discounting and cigarette craving. *Journal of Behavioral Medicine*.
4. Maricich, Y. A., Bickel, W. K., Marsch, L. A., Gatchalian, K., Botbyl, J., Luderer, H. F. (under review). Safety and

efficacy of a prescription digital therapeutic (reSET-O®) as an adjunct to buprenorphine and standard of care for treatment of opioid use disorder (OUD). *American Journal on Addictions*.

5. Athamneh, L. N., Brown, J., Stein, J. S., Gatchalian, K. M., LaConte, S. M., Bickel, W. K. (under review). Future thinking to decrease real-world drinking in alcohol use disorder: Repairing reinforcer pathology in a randomized proof-of-concept trial. *Experimental and Clinical Psychopharmacology*.
6. DeHart, W. B., Freitas Lemos, R., Tegge, A. N., Brown, A. T., Shields, P. G., Hatsukami, D. K., O'Connor, R. J., Bickel, W. K. (in revision). Unventilated cigarette smokers discount money and cigarettes more than ventilated cigarette smokers.
7. Keith, D., Carges, E., Gellings-Lowe, N., Bickel, W. K. (under review). Fluency training in internet-based treatment of substance use disorder. *Addictive Behaviors*.
8. Tomlinson, D. C., Tegge, A. N., Athamneh, L. N., Bickel, W. K. (under review). The phenotype of recovery IV: Delay discounting predicts perceived stress and a chance locus of control in individuals in recovery from substance use disorders. *Addictive Behaviors Reports*.
9. Tegge, A. N., Pope, D. A., Bhandari, S., Crawford, J., Franck, C. T., Chandrasekar, P., Tomlinson, D. C., Fox, E. A., Reese, R. C., Koffarnus, M. N., Bickel, W. K. (under review). The role of homophily in driving activities among neighbors in a social network. *Social Networks*.
10. Snider, S. E., Turner, J. K., McClure, S. M., Bickel, W. K. (in preparation). Reinforcer pathology in cocaine use disorder: Temporal window determines cocaine valuation.
11. Freitas Lemos, R., Stein, J. S., Tegge, A. N., Kaplan, B. A., Heckman, B. W., Cummings, K. M., Bickel, W. K. (under review). The illegal Experimental Tobacco Marketplace I: Effects of vaping product bans. *Tobacco Control*.
12. Carroll, D. M., Stepanov, I., O'Connor, R., Luo, X., Cummings, K. M., Rees, V., Bickel, W. K., Berman, M., Ashley, D., Shields, P., Hatsukami, D. K. (under review). Impact of cigarette filter ventilation on U.S. smokers' perceptions and biomarkers of exposure and potential harm. *Journal of the National Cancer Institute*.
13. Bono, R. S., Cobb, C. O., Wall, C. S., Lester, R. C., Hoetger, C., Lipato, T., Guy, M. C., Eissenberg, T., Bickel, W. K., Barnes, A. J. (in revision). Behavioral economic assessment of abuse liability for Black & Mild cigar flavors among young adults. *Experimental and Clinical Psychopharmacology*.
14. Bickel, W. K., Snider, S. E., Epstein, L. H. (under review). Resolving a contradiction in addiction and obesity science: Drugs and obesogenic food as inferior temporal goods. *Clinical Psychological Science*. *Und*
15. Boyett, B., Nadipelli, V. R., Solem, C. T., Chilcoat, H., Bickel, W. K., Ling, W. (under review). What is an optimal treatment duration with buprenorphine extended release? RECOVER study findings. *Drug and Alcohol Dependence*.
16. Snider, S. E., Turner, J. K., McClure, S. M., Bickel, W. K. (under review). Reinforcer pathology in cocaine use disorder: Temporal window determines cocaine valuation. *Addiction*.
17. Freitas Lemos, R., Stein, J. S., Pope, D. A., Brown, J., Feinstein, M., Stamborski, K. M., Tegge, A. N., Heckman, B. W., Bickel, W. K. (under review). E-liquid purchase as a function of workplace restriction in the Experimental Tobacco Marketplace. *Experimental and Clinical Psychopharmacology*.
18. Turner, J., Athamneh, L., Basso, J., Bickel, W. K. (under review). The Phenotype of Recovery V: Does Delay Discounting Predict the Likelihood of Relapse among Individuals in Recovery from Alcohol and Drug Use

Disorders. *Alcoholism: Clinical and Experimental Research*.

19. Carroll, D. M., Stepanov, I., O'Connor, R., Luo, X., Cummings, K., M., Rees, V., Bickel, W. K., Berman, M. L., Ashley, D., Bansal-Travers, M., Shields, P., Hatsukami, D. K. (under review). Impact of cigarette filter ventilation on U.S. smokers' perceptions and biomarkers of exposure and potential harm.
20. Athamneh, L. N., Freitas Lemos, R., Basso, J. C., Keith, D. R., Bickel, W. K. (under review). The phenotype of recovery VI: The association between delay discounting, life history strategies, and maladaptive health and financial behaviors among individuals in recovery from alcohol use disorders. *Drug and Alcohol Dependence*.

Published Abstracts

List available upon request.

INVITED PRESENTATIONS AND SYMPOSIA

1. Bickel, W.K., Stella, M.E., and Etzel, B.C. Hypothesis and stimulus control: The assessment and control of children's inferences. In B.C. Etzel (Chair), Education assessment and intervention for difficult-to-teach children. Invited symposium presented at the annual meeting of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1981.
2. Morris, E.K., Higgins, S.T., and Bickel, W.K. The influence of Kantor's interbehavioral psychology on behavior analysis. In E.K. Morris (Chair), The relevance of interbehavioral psychology for behavioral research. Invited symposium presented at the annual meeting of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1981.
3. Morris, E.K., Higgins, S.T., and Bickel, W.K. Cogniphilia and cogniphobia in the behavioral sciences: Comments on cognitive science in the experimental analysis of behavior. Invited paper presented at the annual meeting of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1982.
4. Richmond, G., Schroeder, S.R., and Bickel, W.K. Tertiary prevention of attrition related to self-injurious behavior. Invited paper presented at the Self-Injurious Behavior Conference, Kansas City, KN, February 1984.
5. Schroeder, S.R., Bickel, W.K., and Richmond, G. Primary and secondary prevention of self-injurious behaviors: A life-long problem. Invited paper presented at the Self-Injurious Behavior Conference, Kansas City, KN, February 1984.
6. Bickel, W.K., Conley, R., Gualtieri, C.T., Hicks, R.A., Levitt, J., and Schroeder, S.R. Psychomotor stimulants, stress-induced chemotherapy, and their effects on the behavior of the developmentally disabled. In S.T. Higgins (Chair), The relevance of basic research in behavioral pharmacology to clinical issues. Invited symposium presented at the annual meeting of the Association for Behavior Analysis (ABA), Nashville, TN, May 1984.
7. Bickel, W.K. Theoretical perspectives in the analysis of stimulus control. In W. K. Bickel (Chair), Stimulus control: Continuity or discontinuity? Views from the study of interceptive and exereceptive stimuli. Invited symposium presented at the annual meeting of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1986.
8. Preston, K.L., Bigelow, G.E., and Bickel, W.K. Opioid discrimination in dependent and non-dependent

human volunteers. In K.L. Preston (Chair), Drug discrimination studies: Methodologies and applications in humans and nonhuman subjects. Invited symposium presented at the annual meeting of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1986.

9. Stitzer, M.L. and Bickel, W.K. Dosage contingencies in methadone maintenance patients: Effects on illicit drug use. In S.T. Higgins (Chair), Aversive control of human and nonhuman behavior: Drug effects and other relevant issues. Invited symposium presented at the annual meetings of the Association for Behavior Analysis (ABA), Milwaukee, WI, May 1986.
10. Bickel, W.K. and Kelly, T.H. The relation of stimulus control to the treatment of substance abuse. In B. Ray (Chair), Learning factors in substance abuse. National Institute on Drug Abuse technical review meeting, Bethesda, MD, November 1986.
11. Bickel, W.K. and Kelly, T.H. The relation of stimulus control to drug self-administration and the treatment of substance abuse. Invited address presented at the annual meeting of the Association for Behavior Analysis (ABA), Nashville, TN, May 1987.
12. Bickel, W.K. and Higgins, S.T. Acquisition and performance of response chains: Modulation by environmental and pharmacological factors. Invited address presented at the annual meeting of the Association for Behavior Analysis (ABA), Philadelphia, PA, May 1988.
13. Hughes, J.R., Higgins, S.T., and Bickel, W.K. Real estate in behavioral analysis: Reinforcing "properties" of stimuli. Invited address presented at the annual meeting of the Association for Behavior Analysis (ABA), Philadelphia, PA, May 1988.
14. Bickel, W.K. Drug effects on the acquisition and performance of response chains. Young Psychopharmacologist Address, presentation at the annual meeting of the American Psychological Association (APA), August 1988.
15. Bickel, W.K., Hughes, J.R., Rizzuto, P., and Higgins, S.T. Self-administration of caffeine and nicotine relative to cost. Caffeine Symposium interactive effects of caffeine and other physiological pharmacological, and psychopathological states. University of Oklahoma Health Sciences Center, Oklahoma City, OK, March 1989.
16. Bickel, W.K., Higgins, S.T., and Hughes, J.R. Development of repeated acquisition methodologies to detect drug-induced disruption in human learning. Drugs in the workplace: Research and Evaluation Data, National Institute on Drug Abuse, September 1989.
17. Bickel, W.K., DeGrandpre, R.J., Hughes, J.R., and Higgins, S.T. Behavioral economics of drug self-administration. Invited address, Institute of Psychiatry, London, England, November 1990.
18. Bickel, W.K., DeGrandpre, R.J., Hughes, J.R., and Higgins, S.T. Opportunity cost: A factor controlling choice of drug reinforcers. In W.K. Bickel (Chair), Behavior in excess and choice: The role of behavioral economics. Invited symposium presented at the annual meeting of the American Psychological Association (APA), Boston, MA, August 1990.
19. Bickel, W.K. and DeGrandpre, R. J. Econometric analysis of the behavioral effects of addictive drugs. In J.E. Villarreal (Chair), International symposium on drug dependence: From the Molecular to the Social Level. Invited address, Military Medical School, Mexico City, Mexico, January 1991.
20. Bickel, W.K. Opioid dependence and its treatment. Invited address presented at the Annual Meeting of the Vermont Bar Association, Vergennes, VT, September 1991.

21. Bickel, W.K. Choice, consumption, and schedule completions: considering the dependent measure in the behavioral economics of drug reinforcement. Presented at the 20th Annual Convention of the Association for Behavior Analysis (ABA), Atlanta, GA, May 1994.
22. Bickel, W.K. and Smith, B. Drug cues as indices of "subjective states": A critical review. Presented at the European Behavioural Pharmacology Society (EBPS) in Berlin, Germany, September 1994.
23. Bickel, W.K. Relative abuse liability: Behavioral determinants. Presented at the European Behavioural Pharmacology Society (EBPS) in Berlin, Germany, September 1994.
24. Bickel, W.K. Reexamining reinforcer efficacy: Methods, measures and metrics. Invited speaker to the International Study Group Investigating Drugs as Reinforcers (ISGIDAR) Annual Meeting in Scottsdale, AZ, June 1995.
25. Bickel, W.K. Behavioral economics of addiction. Invited speaker to the Annual Meeting of the Cambridge Center for Behavioral Studies, Cambridge, MA, August 1995.
26. Bickel, W.K. and Madden G.J. The behavioral economics of smoking. In W.K. Bickel, F.J. Chaloupka, M. Grossman and H. Saffer (Chairs), The economic analysis of substance use and abuse: an integration of econometric and behavioral economic research. Invited presentation at the National Bureau of Economic Research Conference (NBER), in Cambridge, MA, March 1997.
27. Bickel, W.K. Alternative nicotine delivery systems: Harm reduction and public health. Invited discussant on policy panel at the Alternative Nicotine Delivery Systems Conference, in Toronto, Ontario, Canada, March 1997.
28. Bickel, W.K., and Petry, N. Behavioral economic analysis of polydrug abuse in heroin addicts. In W.K. Bickel, F.J. Chaloupka, M. Grossman and H. Saffer (Chairs), The Economic Analysis of Substance Use and Abuse: An Integration of Econometric and Behavioral Economic Research. Invited presentation at the National Bureau of Economic Research (NBER) Conference, in Cambridge, MA, March 1997.
29. Bickel, W.K. and Smith, B.J. The novel-response procedure: Consequences and implications. Invited paper presentation at the 105th annual convention of the American Psychological Association (APA) in Chicago, IL, August 1997.
30. Bickel, W.K. The price of change: Behavioral economics of drug dependence. Invited presentation, National Institute on Drug Abuse Workshop: Behavioral Therapy Development and Psychological Science - Part II, in Rockville, MD, September 1997.
31. Bickel, W.K. The price of change: Behavioral economics of drug dependence. Invited presentation at the University of New Hampshire, Durham, NH, October 1997.
32. Bickel, W.K. The price of change: Behavioral economics of drug dependence. Invited presentation at the Institute for Advanced Behavioral Studies, Stanford, CA, December 1997.
33. Bickel, W.K. The price of change: Behavioral economics of drug dependence. Invited presentation at the University of Connecticut Health Center, Farmington, CT, March 1998.
34. Bickel, W.K. Heroin clinical trials: Buprenorphine and community reinforcement approach with contingent incentives. Invited presentation in the NIDA Treatment Work Group workshop, "Integration of Pharmacological and Behavioral Treatments in Clinical Trials for the Addictions" at the 38th Annual Meeting for the New Clinical Drug Evaluation Unit Program (NCDEU) in Boca Raton, FL, June 1998.
35. Bickel, W.K., Madden, G.J., and Jacobs, E. E pluribus unum or E unum pluribus? Reinforcement and its

measurement. Invited presentation at the International Study Group Investigating Drugs as Reinforcers (ISGIDAR) in Scottsdale, AZ, June 1998.

36. Bickel, W.K. and Smith, B.J. The novel response procedure in humans. Invited presentation at Fifth International Meeting on Drug Discrimination in Behavioural Neuroscience in Beerse, Belgium, August 1998.
37. Smith, B.J. and Bickel, W.K. Effects of midazolam and caffeine in human flumazenil discriminators. Invited presentation at the Fifth International Meeting on Drug Discrimination in Behavioural Neuroscience in Beerse, Belgium, August 1998.
38. Bickel, W.K. The tyranny of small decisions. Invited presentation at Hopkins Bayview Research Campus in Baltimore, MD, February 1999.
39. Bickel, W.K. The practice of psychology in 2020. Invited keynote speaker at the 14th Midwinter Meeting, "Predicting the Future of Psychology and its Impact on Regulation," for the Association of State and Provincial and Psychology Boards (ASPPB) in Savannah, GA, March 1999.
40. Bickel, W.K. Needle-sharing in heroin addicts: An underlying psychological process. Invited presentation in a NIDA symposium, "Drug Abuse and AIDS: Intertwined Epidemics" in Ottawa, Canada, July 1999.
41. Bickel, W.K. Tyranny of small decisions: Cultural determinants of temporal myopia. Invited address at the 107th annual American Psychological Association (APA) in Boston, MA, August 1999.
42. Bickel, W.K. The economics of the reinforcing effects of drugs. Invited participation in symposium (C.R. Schuster, Chair), "The application of behavioral interventions in the management of substance abuse" at the Annual Behavioral Pharmacology Society (BPS) meeting in Boston, MA, September 1999.
43. Bickel, W.K. Behavioral economics of drug self-administration: Applications to reinforcing efficacy. Invited grand rounds presentation at the New England Regional Primate Research Center in Southborough, MA, March 2000.
44. Bickel, W.K., and C.R. Schuster (Chairs). Symposium, Causal analysis: Introduction and overview. Symposium held at the 62nd Annual Scientific Meeting of the College on Problems of Drug Dependence in San Juan, Puerto Rico, June 2000.
45. Bickel, W.K. Impulsivity in the drug-dependent: Application of delay discounting procedures. Invited participation in symposium (F. van Haaren and P.J. Bushnell, Chairs), "Impulsivity: Precursor to and sequel of toxicant exposure" at the annual meeting of the Behavioral Toxicology Society, in Palm Beach, FL, June 2000.
46. Bickel, W.K. Addiction Journal Editors' Group. Invited participation as editor of *Experimental and Clinical Psychopharmacology*, chaired a session, "Taking Stock" held in Krakow, Poland, July 2000.
47. Bickel, W.K., and Marsch, L.A. Applying computer-based systems to drug abuse prevention. Invited participation in the Small Business Innovative Research (SBIR) Showcase sponsored by the National Institute on Drug Abuse SBIR Workgroup held in Rockville, MD, September 2000.
48. Bickel, W.K. The treatment of opioid dependence: contemporary status. Invited participation in workshop sponsored by the Vermont Department of Health, "1999 Vermont Substance Abuse Conference, 'The Second Century' in Rutland, VT, October 2000.

49. Bickel, W.K., and Marsch, L.A. Methadone and other addiction medications. Invited participation in workshop sponsored by NIDA/NIAAA/NAADA/ATTC-NE conference in Nashua, NH, November 2000.
50. Bickel, W.K. Junkie time: Pathological behavior as the interaction of evolutionary and cultural forces. Visiting Professor Lectures series at the Oklahoma Center for Alcohol & Drug-Related Studies, Oklahoma City, OK, March 2001.
51. Bickel, W.K. Behavioral economics of drug dependence: Contemporary status. Visiting Professor Lectures series at the Oklahoma Center for Alcohol & Drug-Related Studies, Oklahoma City, OK, March 2001.
52. Bickel, W.K. Pharmacology of buprenorphine: How it works; what makes it different clinically. Invited participation in symposium (H. W. Clark and M. Galanter, Organizers) "Buprenorphine in office-based treatment of Opioid dependence" at the 32nd annual meeting of the American Society of Addiction Medicine (ASAM) in Los Angeles, CA, April 2001.
53. Bickel, W.K. Reframing behavioral mechanisms with behavioral economics. Invited participation in symposium (J.M. Marr, Chair) "Behavioral Mechanisms of Drug Action-A Viable Approach?" at the 109th annual American Psychological Association (APA) in San Francisco, CA August 2001.
54. Bickel, W.K. Discounting: A behavioral mechanism of drug dependence. F.A. Holloway, (Chair) Presidential Address for Divisions 28, 3, 25, 50 at the 110th annual American Psychological Association (APA) in Chicago, Illinois, August 2002.
55. Bickel, W. K. Computer-based drug abuse prevention for adolescents: A multi-site evaluation. Invited speaker held by RAND Corporation, Santa Monica, CA, September, 2003.
56. Bickel, W. K. The known and the unknown in drug dependence. "The known and the unknown: Brain, behavior, reinforcement, and treatment." Participated in Panel with the National Institute on Drug Abuse (NIDA) *Neurobiology of Treatment: Recovery of Brain Structure and Function Through Behavioral Treatments Meeting*, Miami, Florida, October, 2003.
57. Bickel, W.K., Reframing addiction with behavioral economics: Delay discounting. Presented in Session: The Neurobiology of Addiction and Its Implications for Treatment, Reward and Reinforcement (Banyas, P. and Gorelick, D.A., Moderators) Sponsored by the American Society of Addiction Medicine in cooperation with the Center for Substance Abuse Prevention, National Institute on Alcohol Abuse and Alcoholism and the National Institute on Drug Abuse. Washington, DC, October, 2003.
58. Bickel, W. K., Operant learning and dynamic systems. Invited speaker. Held by Conference on Approaches for Combating the Troublesome Use of Substances (CACTUS), Albuquerque, NM, October, 2004.
59. Bickel, W. K., Identifying behavioral mechanisms of drug dependence: discounting of delayed reinforcers as an exemplar. Invited speaker. Held by Behavioral Economics Conference, Philadelphia, PA, October, 2004
60. Bickel, W. K., Behavioral economics analysis of drug demand. Invited speaker. Conference On Economics and Behavior, held by National Institute on Drug Abuse, Bethesda, MA, October, 2004.
61. Bickel, W.K., Marsch, L.A., Computerized therapy and prevention: initial studies and demonstration. Presented at the conference e-Therapy, Telehealth, Telepsychiatry and Beyond. SAMSHA Conference, November 29-30, 2004.

62. Bickel, W.K. Served as Session Leader. Greater Little Rock Leadership Session. UAMS, Stephens' Spine Center, Little Rock, AR. March 23, 2006.
63. Bickel, W.K. Served as Research Breakout Session Leader. UAMS Chancellor's Retreat. Little Rock, AR. March 29, 2006.
64. Bickel, W.K. Conducting transdisciplinary research in addictions. Oral presentation at the Annual Addiction Studies Guest Lecture, University of Arkansas at Pine Bluff. Pine Bluff, AR, April 25, 2006.
65. Bickel, W.K., Yi, R., Gatchalian, K., Lindquist, D., & Kowal, B. Discounting of past rewards: Comparison of cigarette smokers and controls. Presentation at the Society for the Quantitative Analyses of Behavior (SQAB) 29th Annual Meeting. Atlanta, Georgia, May 26, 2006.
66. Bickel, W.K. Situating addiction: Interaction of brain behavior, development, and evolution. Oral presentation at the American Psychological Association Annual Meeting. New Orleans, Louisiana, August 12, 2006.
67. Bickel, W.K. The tyranny of small decisions. Oral presentation at the Addiction Health Services Research (AHSR) 2006 Conference. Little Rock, Arkansas, October 23, 2006.
68. Bickel, W.K. The tyranny of small decisions. Oral presentation to the Little Rock Downtown Rotary– Club 99. Little Rock, Arkansas. November 14, 2006.
69. Bickel, W.K. The tyranny of small decisions. Oral presentation at the Central Arkansas Chapter of Sigma Xi, The Scientific Research Society, Fall Banquet. Little Rock, Arkansas. November 16, 2006.
70. Bickel, W.K., Yi, R., Gatchalian, K.M., Landes, R., Kowal, B. Cigarette smokers discount the past more than controls. Poster presentation at the Society for Research on Nicotine and Tobacco Conference. Austin, Texas. February 23, 2007.
71. Bickel, W.K. Tyranny of small decisions: Biology, culture and pathology. Oral presentation at the University of Texas Medical Branch. Galveston, Texas. March 9, 2007.
72. Bickel, W.K. The new science of addiction. Arkansas Statewide Drug Court Conference. Little Rock, Arkansas. March 23, 2007.
73. Bickel, W.K., & Yi, R. Intertemporal choice in human behavioral pharmacology. Behavior Pharmacology Society Annual Meeting. Washington, DC. April 28, 2007.
74. Bickel, W.K. Executive System dysfunction: The silent other half of addictive processes. Birmingham Addiction Conference. Birmingham, Alabama. May 5, 2007.
75. Bickel, W.K. Addiction and impulsivity: Recent findings and new concepts. Drug Abuse and Cognition Conference, Columbia University. New York, New York. September 7, 2007.
76. Bickel, W.K. How might we improve substance abuse treatment? A conceptual analysis and proposal. University of Michigan Substance Abuse Fall Symposium. Ann Arbor, Michigan. October 10, 2007.
77. Bickel, W.K. Tyranny of small decisions: Biology, culture, and pathology. University of Mississippi Medical Center, Annual Research Day. Jackson, Mississippi. November 14, 2007.
78. Bickel, W.K. Tyranny of small decisions: Biology, culture, and pathology. Arkansas Department of

Health and Human Services, Division of Health, Public Health Grand Rounds. Little Rock, Arkansas. December 6, 2007.

79. Bickel, W.K. Tyranny of small decisions: Biology, culture, and pathology. Medical University of South Carolina, Addiction Research Seminar. Charleston, South Carolina. February 21, 2008.
80. Bickel, W.K. Understanding addiction in four dimensions. University of Central Arkansas PsiChi Induction. Conway, Arkansas. March 13, 2008.
81. Bickel, W.K. Executive function and risky choice among women smokers. CPDD Special Conference, Women and Smoking. Annapolis, Maryland. April 10, 2008.
82. Bickel, W.K. Escaping the tyranny of small decisions: A proposal. NIH, Mechanisms of Behavior Change. Bethesda, Maryland. April 16, 2008.
83. Bickel, W.K. Cognitive dysfunction in substance dependence: Types of deficits and their possible modulation. American Psychiatric Association Annual Meeting, Washington, DC. May 8, 2008.
84. Bickel, W.K. Behavioral economics of nicotine addiction: Discounting and impulsive Processes. Dual Diagnosis Conference, Indianapolis, Indiana. June 13, 2008.
85. Bickel, W.K. Information technology as a means to treat addiction. University of Arkansas for Medical Sciences, Tailored Biobehavioral Intervention Center Research Seminar. Little Rock, AR. September 5, 2008.
86. Bickel, W.K. Towards the analysis of trans-disease processes: Tyranny of small decisions as an exemplar. University of Arkansas for Medical Sciences, Winthrop P. Rockefeller Cancer Institute Forum. Little Rock, AR. October 20, 2008.
87. Bickel, W.K. Tyranny of small decisions: Biology, culture, and pathology. University of Arkansas Clinton School of Public Service, Distinguished Speakers Series. Little Rock, AR. November 17, 2008.
88. Bickel, W.K. Behavioral and neuro economics speaks to drug abuse policy: Suboptimal decisions and their melioration. International Society of Addiction Medicine. Cape Town, South Africa. November 19, 2008.
89. Bickel, W.K. Towards the study of trans-disease processes: Reframing the SES gradient. Tobacco and Young, Low-SES Women: Federal Collaboration to Make a Difference. The Future Research Panel. Washington, DC. December 1, 2008.
90. Bickel, W.K. Informational technologies as a new treatment paradigm: Findings from the Therapeutic Educational System (TES). National Institute on Drug Abuse's Addressing Substance Abuse and Comorbidities among Military Personnel, Veterans, and their Families: A Research Agenda Meeting. Bethesda, MD. January 7, 2009.
91. Bickel, W.K. Invited expert to the National Institute of Health Science of Behavior Change Planning Meeting. Washington, D.C. February 16-18, 2009.
92. Bickel, W.K. The tyranny of small decisions. University of Arkansas for Medical Sciences - Rural Hospital Program. Little Rock, AR. March 4, 2009.
93. Bickel, W.K. The tyranny of small decisions. Mini-symposium at the Michigan State University, Department of Epidemiology. East Lansing, MI. March 20, 2009.
94. Bickel, W.K. The tyranny of small decisions. College of Pharmacy Seminar Lecture Series, University of

Arkansas for Medical Sciences. Little Rock, AR. April 3, 2009.

95. Bickel, W.K. Trans-disease processes underlying health risky behavior: A new paradigm. Internal Medicine Grand Rounds, University of Arkansas for Medical Sciences. Little Rock, AR. October 1, 2009.
96. Bickel, W.K. Tyranny of small decisions: Biology, culture, and pathology. Arkansas Department of Health's County Health Officers Symposium. Morrilton, AR. October 4, 2009.
97. Bickel, W.K. Tyranny of small decisions: Biology, culture, and the fate of our society. UAMS-College of Medicine's Dean's Distinguished Faculty Lectureship Award. Little Rock, AR. October 7, 2009.
98. Bickel, W.K. Trans-disease processes underlying health risky behavior: A new paradigm. Arkansas Department of Health's Public Health Grand Rounds. Little Rock, AR. October 29, 2009.
99. Bickel, W.K. Behavioral economics and behavioral change. University of Michigan, School of Public Health's Applying Complex Systems Approaches to the Processes of Behavior Change - A First Conversation. Ann Arbor, MI. January 29, 2010.
100. Bickel, W.K. The tyranny of small decisions: A trans-disease process. University of Massachusetts Medical School Grand Rounds. Worcester, MA. April 8, 2010.
101. Bickel, W.K. Intertemporal choice and its modification: Current status. University of Minnesota's Center for the Study of Impulsivity in Addiction (CSIA) Seminar. Minneapolis, MN. April 13, 2010.
102. Bickel, W.K. Reducing smoking: Come as you are! University of Arkansas for Medical Sciences, Perinatal Conference. Little Rock, AR. May 7, 2010.
103. Bickel, W.K. Trans-disease processes underlying health risky behavior: A new paradigm. Interdisciplinary Research Training Institute on Dispanic Drug Abuse (IRTI). Session/workshop. Houston, TX. June 4, 2010.
104. Bickel, W.K. Poster Presentation: Inter-temporal choice of cocaine addicts: Single and cross commodity discounting of cocaine and money. College on Problem of Drug Dependency (CPDD) 72nd Annual Scientific Meeting, Scottsdale, AZ. June 14, 2010.
105. Budney, A.J., Fearer, S.A., Stanger, C., Costello, P.L., Walker, D., Bickel, W.K. Computerized delivery of MET/CBT for cannabis-use disorders. American Psychological Association, San Diego, CA. August 13, 2010.
106. Bickel, W.K. Excessive discounting of the future as a trans-disease process. Johns Hopkins University Department of Psychiatry/Behavioral Pharmacology Research Unit (BPRU) Seminar, Baltimore, MD. September 15, 2010.
107. Bickel, W.K. Sustaining behavioral change. 2010 State of the Science Congress on Nursing Research (CANS). Plenary Session. Washington, D.C. September 28, 2010.
108. Bickel, W.K. Behavioral economics, 28th Annual Scientific Meeting – Obesity 2010. San Diego, CA. October 9, 2010.
109. Bickel, W.K. The tyranny of small decisions: Addiction and other health behaviors. American Bar Association. Little Rock, AR. October 14, 2010.
110. Bickel, W.K., Pitcock, J.A. Overlapping neural activation in delay discounting and working memory: A meta-

- analysis. Society of Neuroeconomics Conference, Evanston, IL. Poster presentation. October 16, 2010.
111. Bickel, W.K. Information technology as a means to treat alcoholism and addiction. 13th Annual Fundamentals of Addiction Medicine. Marysville, WA. March 3, 2011.
 112. Bickel, W.K. Excessive discounting of the future as a trans-disease process. Duke Institute for Brain Sciences. Addiction Research Group Seminar Series. Durham, NC. March 15, 2011.
 113. Bickel, W.K. Competing neurobehavioral decision systems view of addiction and other health behaviors. Association for Behavior Analysis International. Behavioral Economics Conference. Chicago, IL. March 26, 2011.
 114. Bickel, W.K. Tyranny of small decisions: Addiction and health behavior. Invited colloquia speaker. Texas A&M University. College Station, TX. April 20, 2011.
 115. Bickel, W.K. Excessive discounting as a trans-disease process. Invited colloquia speaker, Department of Psychology Faculty and Graduate Students. Texas A&M University. College Station, TX. April 20, 2011.
 116. Bickel, W.K. Excessive discounting of the future as a trans-disease process. Fourth Annual Carilion Clinic Research Day. Virginia Tech Carilion School of Medicine. Roanoke, VA. May 12, 2011.
 117. Bickel, W.K. Decision making and addictions: Neurobiology and treatment implications. American Psychiatric Association 2011 Annual Meeting. Honolulu, Hawaii. May 15, 2011.
 118. Bickel, W.K. Remember the future: Working memory training decreases delay discounting among stimulant addicts. University of North Carolina at Chapel Hill. June 2, 2011.
 119. Bickel, W. K. Excessive discounting of the future: A trans-disease process. Neuroeconomics Seminar. New York University. New York, NY. September 13, 2011.
 120. Bickel, W. K. Self-control failure and its repair: A trans-disease process. NIH/ORBIT Meeting. Bethesda, MD. October 18, 2011.
 121. Bickel, W. K., Koffarnus, M. N. Excessive discounting of the future as a trans-disease process. The Gerontological Society of America Annual Meeting. Boston, MA, November 19, 2011.
 122. Bickel, W. K. The tyranny of small decisions. Valkenberg Psychiatric Hospital. Cape Town, South Africa. January 24, 2012.
 123. Bickel, W. K. Self-control failure and its repair: Trans-disease processes. University of Cape Town. Cape Town, South Africa. January 25, 2012.
 124. Bickel, W. K. The Continuum from impulsivity to self-control as a candidate biomarker for addiction. Addiction Seminar, Medical University of South Carolina. Charleston, SC. March 15, 2012.
 125. Bickel, W. K. Self-control failure and its repair. Psychiatry Grand Rounds, Medical University of South Carolina. Charleston, SC. March 16, 2012.
 126. Bickel, W. K. Self-control failure as a trans-disease process: Competing decision systems and their repair. APA Distinguished Speaker – Rocky Mountain Psychological Association Conference. Reno, NV. April 12-14, 2012.
 127. Bickel, W. K. Addictive processes and pathophysiology. Binge-Eating Disorder Workshop. Bethesda, MD.

April 19, 2012.

128. Bickel, W. K. Excessive discounting, a form of impulsivity as a biomarker and therapeutic target. Addiction and Impulsive Decision-Making Workshop – University of British Columbia. Vancouver, British Columbia. June 6, 2012.
129. Bickel, W. K. Excessive discounting, a form of impulsivity, as a biomarker and therapeutic target. Research Society on Alcoholism (RSA) – Mechanism of Change Satellite Conference. San Francisco, CA. June 23, 2012.
130. Bickel, W. K. Self-control failure and its repair. APA Annual Convention - (Brady-Schuster Award. Orlando, FL. August 2, 2012.
131. Bickel, W. K. Competing neuro-behavioral decisions systems view of addiction. APA Annual Convention - Presidential Address. Orlando, FL. August 3, 2012.
132. Bickel, W. K. Altruism in time: social temporal discounting differentiates smokers from problem drinkers. APA Annual Convention. Orlando, FL. August 4, 2012.
133. Bickel, W. K. Self-control failure and its repair: Trans-disease processes. McLean Imaging Center, McLean Hospital, Harvard – Neuroscience Seminar. Belmont, MA. October 23, 2012.
134. Bickel, W. K. The Competing neurobehavioral decision systems view of addiction. University of Kentucky – CDART Seminar. Lexington, KY. November 5, 2012.
135. Bickel, W. K. The repair of self-control. City College of New York. New York, NY. January 31, 2013.
136. Bickel, W. K. Repairing self-control failure in addiction. Entertainment Software and Cognitive Neurotherapeutics Society Conference. Los Angeles, CA. March 16, 2013.
137. Bickel, W. K. Self-control failure and its repair. Basic Behavioral Science – Research in Obesity Meeting. NIH – National Institute of Diabetes and Digestive and Kidney Diseases. Bethesda, MD. April 24, 2013.
138. Bickel, W. K. Self-control failure and its repair in addiction. Behavioral Social Neuroscience Seminar Series. CalTech Brain, Mind & Society Seminar. Pasadena, CA. May 2, 2013.
139. Bickel, W. K. Impulsivity and its repair. 9th Annual Scientific Meeting of the International Society for Research on Impulsivity (InSRI). San Francisco, CA. May 15, 2013.
140. Bickel, W. K. Self-control failure and its repair: Trans-disease processes. NIDA - Division of Clinical Neuroscience & Behavioral Research Speaker Series. Bethesda, MD. May 29, 2013.
141. Bickel, W. K. Self-control failure in addiction and its repair. Annual Scientific Trainee Retreat. University of Vermont. Burlington, VT. July 16, 2013.
142. Bickel, W. K. Delay discounting, impulsivity, and executive functions in relation to addictions. Behavior Change, Health, and Health Disparities Conference. Burlington, VT. September 26, 2013.
143. Bickel, W. K. Repairing self-control failure in addiction. Drug Abuse Seminar, Virginia Commonwealth University. Richmond, VA. October 29, 2013.
144. Bickel, W. K. Repairing self-control failure in addiction. Grand Rounds, Vanderbilt University.

Nashville, TN. November 8, 2013.

145. Bickel, W. K. Evaluation of modified risk tobacco products. Society for Research on Nicotine and Tobacco, Symposia. February 8, 2014.
146. Bickel, W. K. The consequences of self-control failure in adolescent smokers. Virginia Commonwealth University. February 27, 2014.
147. Bickel, W. K. Paradigm change in the science of behavior: A case study. University of Kansas. March 28, 2014.
148. Bickel, W. K. Repairing self-control failure in addiction. Indiana University Perdue University-Indianapolis. Indianapolis, IN. April 11, 2014.
149. Bickel, W. K. Self-control failure as a trans-disease process. ACRP 2014 Global Conference & Exhibition, Association of Clinical Research Professionals. San Antonio, TX. April 28, 2014.
150. Bickel, W. K. Self-control failure and its repair: Trans-disease processes. Johns Hopkins –Behavioral Pharmacology Research Unit. Baltimore, MD. May 27, 2014.
151. Bickel, W. K. The immediacy bias in human affairs. LEAD Virginia 2014 Alumni Conference. Hot Springs, VA. October 3, 2014.
152. Bickel, W. K. Self-control failure: Trans-disease processes. Virginia Tech Presidential Installation Ceremonies. Blacksburg, VA. October 18, 2014.
153. Bickel, W. K. From research to applied policy: Protection during adolescence. The Marijuana Summit – A Conversation in the Commonwealth. Roanoke, VA. November 3, 2014.
154. Sheffer, C., Mennemeier, M., Bickel, W. K. Neuromodulation of delay discounting: implications for developing a model of and interventions for addictive decision-making. In special symposium entitled: Updates in clinical applications for TMS. NYC Neuromodulation Conference, New York, NY, January 9- 11, 2015.
155. Bickel, W. K. The Consequences of self-control failure in adolescent smokers. Virginia Youth Tobacco Projects Research Coalition Meeting. Richmond, VA. January 8, 2015.
156. Bickel, W. K. Self-control failure in addiction and its repair. Cancer Prevention and Control Grand Rounds. M.D. Anderson Cancer Center. Houston, TX. January 23, 2015.
157. Bickel, W. K. Using cognitive science to improve behavioral treatment for persons with substance use disorders. International Convention of Psychological Science. Amsterdam. March 13, 2015.
158. Bickel, W. K., Moody, L., Quisenberry, A. J. (poster presentation). Reinforcement pathology: Comparisons among polysubstance users. Enhancing Collaborative Research on Addiction (CRAN) Workshop. Rockville, MD. May 2015.
159. Bickel, W. K. A quantitative signature of change in delay discounting. Society for the Quantitative Analyses of Behavior Annual Meeting. San Antonio, TX. May 23, 2015.
160. Bickel, W. K. Toward a new science of psychopathology: Trans-disease processes. Association for Behavioral Analysis International. San Antonio, TX. May 24, 2015.

161. Bickel, W. K., Quisenberry, A. J., Snider, S. E., Stein, J. S. (poster presentation). Valuing the future: Pathways to recovery. Consortium of Social Science Associations. Washington, D.C. June 24, 2015.
162. Bickel, W. K., Quisenberry, A. J., Snider, S. E., Stein, J. S. (poster presentation). Valuing the future: Pathways to recovery (poster presentation). 20th Anniversary – Office of Behavioral and Social Sciences Research, National Institutes of Health. Bethesda, MD. June 25, 2015.
163. Bickel, W. K. A Trans-diagnostic approach to preventing and treating behavioral dysfunction (Invited Keynote Address). Academy of Behavioral Medicine Research. Cambridge, MD. June 25, 2015.
164. Koffarnus, M. N., Bickel, W. K. Behavioral Economic demand of e-cigarettes as a function of flavor and nicotine absorption. Center for the Study of Tobacco Products Executive Committee Meeting, Virginia Commonwealth University. Richmond, VA. July 8, 2015.
165. Bickel, W. K. A trans-diagnostic approach to treating self-control failure. West Virginia University Department of Behavioral Medicine and Psychiatry Grand Rounds. Morgantown, WV. September 16, 2015.
166. Bickel, W. K. Some current dimensions of the behavioral economics of health behavior change. Vermont Center on Behavior and Health Third Annual Retreat. Burlington, VT. October 1, 2015.
167. Bickel, W. K. A trans-diagnostic approach to treating self-control failure. New York University Colloquium in Neuroeconomics. New York, NY. October 27, 2015.
168. Bickel, W. K. A trans-diagnostic approach to treating self-control failure. Medical University of South Carolina. Charleston, SC. November 17, 2015.
169. Bickel, W. K. Translational studies in addiction: Imaging and network analysis. Medical University of South Carolina. Charleston, SC. December 17, 2015.
170. Bickel, W. K. A Trans-diagnostic approach to treating self-control failure. Mental Health and Addiction Program Grand Rounds, St. Joseph's Healthcare. Hamilton, Ontario. February 4, 2016.
171. Stein, J., Koffarnus, M. N., Bickel, W. K. Effects of negative income shock on cigarette demand and craving. In E. Augustin (Chair), *Smoking in low-income populations*. Society for Research on Nicotine and Tobacco Annual Meeting. Chicago, IL. March 3, 2016.
172. Heckman, B., Cummings, K. M., Heijndijk, S., Willemsen, M., Borland, R., O'Connor, R., Bickel, W.K. Substitutability of reduced nicotine cigarettes and electronic cigarettes: The Experimental Tobacco Marketplace as a tool to inform regulatory standards for novel products. In J. Hoek (Chair), *Marketing of tobacco products*. Society for Research on Nicotine and Tobacco Annual Meeting. Chicago, IL. March 3, 2016.
173. Stein, J., Koffarnus, M. N., Bickel, W. K. Hypothetical attributes of electronic cigarettes modulate behavioral economic demand and substitution. In J. Huang (Chair), *Public health policy and health economics*. Society for Research on Nicotine and Tobacco Annual Meeting. Chicago, IL. March 4, 2016.
174. Bickel, W. K. Trans-diagnostic approach to preventing and treating behavioral dysfunction. Nebraska Symposium on Motivation. Lincoln, NE. April 22, 2016.
175. Bickel, W. K. Choice Impulsivity. Scientific Meeting of the International Society for Research on Impulsivity and Center for the Economic Analysis of Risk. Atlanta, GA. May 11, 2016.

176. Bickel, W. K. Keynote Address: The tyranny of small decisions: Behavior, biology, and culture. Statewide Prevention Coalition Association Meeting. Columbus, OH. May 17, 2016.
177. Bickel, W. K. Impulsivity in the addictions: E Pluribu Unum? Invited symposium - Converting Evidence: Impulsivity, Effortful Control, and Disinhibition. Association for Psychological Science Annual Convention. Chicago, IL. May 28, 2016.
178. Bickel, W. K. The addictionomics of self-control. Nathan B. Eddy Lecture, College on Problems of Drug Dependence Annual Meeting. Palm Springs, CA. June 2016.
179. Bickel, W. K. Theta burst TMS as a tool to change smoking behavior. In C. A. Hanlon and N. Volkow (Chairs), *Developing innovative brain stimulation treatment options for substance-dependent individuals: Translating basic science knowledge of neural circuits to our clinics*. Symposium conducted at the College on Problems of Drug Dependence Annual Meeting. Palm Springs, CA. June 2016.
180. Quisenberry, A. J., Koffarnus, M. N., Bianco, A., Perry, E., Bickel, W. K. The experimental tobacco marketplace II: Substitutability in dual e-cigarette and cigarette users. In Z. D. Cooper and M. Baladi (Chairs). *Altered states: Abuse Liability*. Oral Communication at the College on Problems of Drug Dependence Annual Meeting. Palm Springs, CA. June 2016.
181. Bickel, W. K., Quisenberry, A. J., Chandrasekar, P., Koffarnus, M. N., Fox, E. A., Franck, C. The social interactome of recovery: Network topology influences social media engagement. In W. K. Bickel and D. Peyser (Chairs). *The social network*. Oral Communication at the College on Problems of Drug Dependence Annual Meeting. Palm Springs, CA. June 2016.
182. Bickel, W. K. The social interactome of recovery: Social media as therapy development. NIH Grantee Meeting, *Using social media to understand and address substance use and addiction*. Rockville, MD. June 2016.
183. Bickel, W. K. Executive functioning and risk for negative health behaviors. In *Risk factors and targets for health behavior promotion—Anxiety sensitivity and working memory capacity*. Symposium conducted at the meeting of the American Psychological Association, Denver, CO. August, 2016.
184. Bickel, W. K. The behavioral economics of tobacco: Insights from method innovation. In *Using behavioral science to evaluate the feasibility of a national nicotine reduction policy*. Symposium conducted at the meeting of the American Psychological Association, Denver, CO. August 2016.
185. Bickel, W. K. In the beginning a response was reinforced: Conceptual expansion in addiction science. In *Fifty years of Division 28—Our remarkable past and bright future*. Symposium conducted at the meeting of the American Psychological Association, Denver, CO. August 2016.
186. Bickel, W. K. Translating basic research on temporal discounting, executive functioning and neuroeconomics into the interventions for addictive behaviors. NIH Workshop, Accelerating the Pathway from Ideas to Efficacy. Bethesda, MD. September 28, 2016.
187. Bickel, W. K. The addictionomics of self-control. National Institutes of Health. Bethesda, MD. September 30, 2016.
188. Bickel, W. K. A quantitative signature of change in impulsivity: Toward prediction of clinical response. Virginia Nordic Precision Neuroscience Conference, Roanoke, VA. October 5, 2016.

189. Bickel, W. K. A Trans-diagnostic approach to treating self-control failure. Catawba Hospital Grand Rounds, Catawba, VA. October 12, 2016.
190. Bickel, W. K. Heroin-Opioid Addiction in Southwest Virginia. VCOM Heroin Addiction Event. Edward Via College of Osteopathic Medicine, Blacksburg, VA. October 24, 2016.
191. Bickel, W. K. Findings from the International Quit and Recovery Registry. NIDA-NIAAA Mini-Convention: Frontiers in Addiction Research. San Diego, CA. November 11, 2016.
192. Bickel, W. K. Dual Neuro-System Interventions Modulate Drug Valuation. Stanford University Neuroscience Symposium. Stanford, CA. December 1, 2016.
193. Bickel, W. K. Self-control failure and its repair among alcohol and tobacco dependent individuals. In *The Behavioral Economics of Health Behavior Change: New Findings and Application*. Symposium conducted at the International Congress of Behavioral Medicine. Melbourne, Australia. December 8, 2016.
194. Bickel, W. K. Delay discounting as a target for self-regulation in pre-diabetes. Science of Behavioral Change Annual Steering Committee and External Scientific Panel Meeting. Bethesda, MD. January 12, 2017.
195. Bickel, W. K. The addictionomics of self-control. UC Davis Department of Psychiatry and Behavioral Sciences – School of Medicine Grand Rounds. Sacramento, CA. January 27, 2017.
196. Bickel, W. K. Reinforcer Pathology and Its Modulation. NIDA Phenotyping Battery Workshop. Rockville, MD. February 28, 2017.
197. Bickel, W. K. Continuous theta burst TMS as a tool to change decision-making in smokers. In C. Hanlon, Chair. *Addiction. The Next Frontier in TMS Treatment Development? Translating Our Knowledge of Neural Circuits to Develop Evidence-Based Substance Abuse Treatment Strategies*. Symposium conducted at the 2nd International Brain Stimulation Conference. Barcelona, Spain. March 7, 2017.
198. Bickel, W. K. Discussant. In C. E. Sheffer, Chair. *Innovative Brain Stimulation Techniques for Treating Tobacco Dependence*. Symposium conducted at the Society for Research on Nicotine and Tobacco Annual Meeting. Florence, Italy. March 11, 2017.
199. Bickel, W. K. Addiction as reinforce pathology: Translational interventions modulate drug valuation. In C. Martin, Chair. *Defining and Assessing Addiction in Rodents and Humans: Building a Translational Science*. Symposium conducted at the 2017 International Convention of Psychological Science. Vienna, Austria. March 24, 2017.
200. Bickel, W. K. Addictionomics of self-control. Excessive Appetites: Food, Drugs, and Money Lecture Series, University of Michigan. Ann Arbor, MI. April 11, 2017.
201. Bickel, W. K. Reinforcer pathology: A transdisease mechanism. Academy of Behavioral Medicine Research Annual Meeting. Sante Fe, NM. June 22, 2017.
202. Bickel, W. K. Money isn't everything: Discounting across commodities. Research Society on Alcoholism Annual Scientific Meeting. Denver, CO. June 27, 2017.
203. Bickel, W. K. The Addictionomics of Self-Control. Brazilian Association of Alcohol and Other Drugs Conference. Gramado, Rio Grande do Sul, Brazil. September 15, 2017.

204. Bickel, W. K. Therapeutic Application of Information Technology and Social Media for Addiction. Brazilian Association of Alcohol and Other Drugs Conference. Gramado, Rio Grande do Sul, Brazil. September 16, 2017.
205. Bickel, W. K. Reinforcer Pathology. Presentation to Hospital and Research Center Physicians/Researchers. San Paulo, Brazil. September 18, 2017.
206. Bickel, W. K. Experimental Tobacco Marketplace: Substitutability of e-Cigarettes and Conventional Cigarettes. Tobacco Regulatory Science Fifth Annual Conference. Burlington, Vermont. October 6, 2017.
207. Bickel, W. K. Changing smoking related decisions in smokers with continuous Theta Burst TMS. In. H. Ekhtiari, M. Paulus. *Neuroscience-based Approaches to Assessment, Prognosis, and Treatment of Substance Use Disorders*. Symposium conducted at the 2017 International Society of Addiction Medicine Annual Conference. Abu Dhabi, United Arab Emirates. October 26, 2017.
208. Bickel, W. K. Interaction with behavioral treatment – Timing, extent, and cumulative effects. NIDA/NIH Neuromodulation Meeting. Bethesda, MD. November 13, 2017.
209. Bickel, W. K. The experimental tobacco marketplace: Effects of (1) E-liquid nicotine strength and (2) Taxes and subsidies. In. B. Heckman. *Demand Modeling to Inform Tobacco Regulatory Science: Transdisciplinary and International Perspectives*. Symposium conducted at the Society for Research on Nicotine and Tobacco Annual Meeting. Baltimore, MD. February 24, 2018.
210. Bickel, W. K. Reinforcer pathology: Theory, methods, and results. University of North Carolina Wilmington. March 15, 2018.
211. Bickel, W. K. *Health Neuroscience: Future Directions in Mind and Brain Research*. In. P. Hall. Symposium conducted at the 2018 Annual Meeting of the Society of Behavioral Medicine. New Orleans, LA. April 12, 2018.
212. Bickel, W. K. Reinforcer Pathology: A Novel Perspective of Addiction. Biomedical Frontiers Seminar Series, Liberty University College of Osteopathic Medicine. Lynchburg, VA. April 30, 2018.
213. Bickel, W. K. The Temporal Window of Reinforcer Integration Determines the Value of Drugs among the Addicted. Neuroscience Seminar. University of Zurich. Zurich, Switzerland. May 17, 2018.
214. Bickel, W. K. Neural correlates of intertemporal choice among social drinkers and adults with alcohol use disorder. In S. Acuff. *Neuro and Behavioral Economic Approaches to Understanding Alcohol Misuse*. Symposium conducted at the Research Society on Alcoholism Annual Conference. San Diego, CA. June 17, 2018.
215. Bickel, W. K. Social interactome of recovery: Experimental assessment of homophily. Keynote Address at Artificial Intelligence & Computational Psychology Conference. Stockholm, Sweden. July 14, 2018.
216. Bickel, W. K. International Quit and Recovery Registry: Recovery phenotype and social network dynamics. In B. Hoepfner. *Continuing Care Options to Support Recovery from Alcohol and Other Drug Problems*. Symposium conducted at the American Psychological Association Annual Meeting. San Francisco, CA. August 9, 2018.
217. Bickel, W. K. Reinforcer pathology: Temporal window determines value. In V. Kwan. *Future Time Perspective—Conceptualizations, Consequences, and Target for Interventions*. Symposium conducted at the

American Psychological Association Annual Meeting. San Francisco, CA. August 11, 2018.

218. Bickel, W. K. Reinforcer pathology: A conceptual model of addiction. In M. Galizio. *Models of Addiction and Treatment*. Symposium conducted at the Association for Behavioral Analysis International, Substance Use and Addiction Conference. Washington, DC. November 19, 2018.
219. Bickel, W. K. Resolving a contradiction in addiction science. Wake Forest School of Medicine, Department of Physiology & Pharmacology Seminar Series. Winston-Salem, NC. November 29, 2018.
220. Bickel, W. K. Resolving a contradiction in addiction science: Implications for understanding the disorder. Mount Sinai Grant Rounds. New York, New York. March 5, 2019.
221. Bickel, W. K. Learning from success: Impact of recovery phenotype for substance use disorder diagnostics. In C. Martin. *Translation between basic science in addiction and the diagnosis of substance use disorders*. International Convention of Psychological Science. Paris. March 8, 2019.
222. Bickel, W. K. Addiction: Identifying a novel determinant of drug valuation. VirginiaDrugDiscoveryRx: Emerging Targets, Technologies, and Therapeutics for Cancer and Neuroscience. Roanoke, VA. May 22, 2019.
223. Bickel, W. K. Resolving a contradiction of addiction/obesity science by clarifying the function of substances and obesogenic foods: A behavioral economic approach. Society for the Quantitative Analyses of Behavior Annual Meeting. Chicago, IL. May 24, 2019.
224. Bickel, W. K. The translational science of health behavior change: A recruitment call for scientists. Society for the Advancement of Behavior Analysis. Chicago, IL. May 25, 2019.
225. Bickel, W. K. Delay discounting: Methods, best practices, and as a determinant of reinforcer value. In L. Kwako and K. Lindgren. *Behavioral Tasks and Alcohol Research: Key Findings and Lessons Learned*. Symposium conducted at the Research Society on Alcoholism Annual Scientific Meeting. Minneapolis, MN. June 23, 2019.
226. Bickel, W. K. Prospection failure in addiction and its repair. In J.Rung. *Seeing the future as now – Understanding prospection and its implications for addiction disorders*. American Psychological Association Annual Meeting. Chicago, IL. August 8, 2019.
227. Bickel, W. K. A novel determinant of obesogenic food value. Southwest Virginia Symposium on Obesity. Roanoke, VA. September 13, 2019.
228. Bickel, W. K. Identification of a novel determinant of addiction. Nevada Association for Behavior Analysis 2019 Conference. Reno, NV. October 12, 2019.
229. Bickel, W. K. Resolving a contradiction in addiction and obesity science. Distinguished Speaker Series – Institute for Addiction Science, University of Southern California. Los Angeles, CA. February 21, 2020.
230. Bickel, W. K. The Experimental Tobacco Marketplace: estimating the effects of policy. In K. M. Cummings. Symposium: *Evaluating the impact of nicotine regulatory policies in a rapidly changing market: findings from the ITC project in the United States, Canada, England, and Australia*. Society for Research on Nicotine and Tobacco Annual Meeting. March 2020.
231. Bickel, W. K. Characterizing patient outcomes after treatment: Results of the RECOVER 24-month observational study. College on Problems of Drug Dependence 2020 Scientific Meeting Virtual Experience. June 2020.

232. Bickel, W. K. Repairing reinforcer pathology with Episodic Future Thinking: From lab to clinic. In M.Sofis. *Digital Delivery of Future Thinking Interventions to Reduce Temporal Discounting and Substance Use*. College on Problems of Drug Dependence 2020 Scientific Meeting Virtual Experience. June 2020.
233. Bickel, W. K. Resolving a contradiction in addiction and obesity science. Wayne State University School of Medicine – Department of Psychiatry & Behavioral Neurosciences, Chairman’s Grand Rounds. Virtual presentation. September 9, 2020.

PRESENTATIONS

Presentations listed for past 2 years. A complete listing is available upon request.

1. Athamneh, L. N., Stein, J. S., Bickel, W. K. (poster presentation). Narrative theory III: Romance vs sex narratives in changing discounting and tobacco valuation. Society for Research on Nicotine and Tobacco Annual Meeting. Baltimore, MD. February 2018.
2. DeHart, W. B., Kaplan, B. A., Mellis, A. M., Bickel, W. K. (poster presentation). Using narratives to promote substitution of e-cigarettes for cigarettes in an online Experimental Tobacco Marketplace. Society for Research on Nicotine & Tobacco Annual Meeting. Baltimore, MD. February 2018.
3. Kaplan, B. A., Koffarnus, M. N., & Bickel, W. K. A crowd-sourced evaluation of reduced-nicotine cigarette framing on behavioral economic demand curves. Paper presented at Society for Research on Nicotine & Tobacco Annual Meeting. Baltimore, MD. February 2018.
4. Mellis, A. M., Snider, S. E., Bickel, W. K. (poster presentation). Narrative theory: Hurricane-associated loss increases delay discounting and cigarette craving in smokers. Society for Research on Nicotine and Tobacco. Baltimore, MD. February 2018.
5. Moody, L., Tegge, A. N., Perry, E., Sheffer, C., Bickel, W. K. (oral presentation). Predicting successful quitters: A classification-based approach to group CBT responders. Society of Research on Nicotine and Tobacco Annual Meeting. Baltimore, MD. February 2018.
6. Athamneh, L. N., Bickel, W. K. (poster presentation). Using narratives to alter cigarette valuation: Reinforcer pathology interpretation. Society of Behavioral Medicine Annual Meeting. New Orleans, LA. April 2018.
7. Mellis, A. M., Snider, S. E., Bickel, W. K. (poster presentation). Narrative theory: Adaptive decision-making in response to natural disasters and income loss in drinkers. Society of Behavioral Medicine Annual Meeting. New Orleans, LA. April 2018.
8. Mellis, A. M., Snider, S. E., Bickel, W. K. (poster presentation). Adaptive decision-making in response to narratives of hurricane-associated loss and income loss in drinkers. Society of Behavioral Medicine Annual Meeting. New Orleans, LA. April 2018.
9. Snider, S. E., Poe, L. M., Kocher, M. A., Bickel, W. K. (poster presentation). Hurricane-associated loss increases delay discounting, demand, and consumption of highly palatable snacks in the obese. Society of Behavioral Medicine. New Orleans, LA. April 2018.

10. DeHart, W. B., Amin, A., Bickel, W. K. (poster presentation). Promoting substitution of E-cigarettes for cigarettes through narratives: Incorporating authority and stigma biases. College on Problems of Drug Abuse Annual Meeting. San Diego, CA. May 2018.
11. Kim-Spoon, J., Lauharatarahirun, N., Peviani, K., Briant, A., Herd, T., Elder, J., Deater-Deckard, K., Bickel, W. K., & King-Casas, B. (poster presentation). Longitudinal pathways linking socioeconomic adversity, neural risk processing, delay discounting, and adolescent substance use. Association for Psychological Science, San Francisco, CA. May 2018.
12. Kaplan, B. A., Bickel, W. K., Koffarnus, M. N. (poster presentation). A preliminary analysis of reduced nicotine cigarettes on the acute subjective effects of craving and liking. National Institutes of Health Tobacco Regulatory Science Meeting. Bethesda, MD. June 2018.
13. Athamneh, L. N., Stein, J. S., Amlung, M., Bickel, W. K. (poster presentation). Validation of a brief behavioral economic assessment of demand among cigarette smokers. College on Problems of Drug Dependence Annual Meeting. San Diego, CA. June 2018.
14. Mellis, A. M., Snider, S. E., Bickel, W. K. (poster presentation). Repeated episodic future thinking produces cumulative reductions of delay discounting in current and former alcohol users. College on Problems of Drug Dependence Annual Meeting. San Diego, CA. June 2018.
15. Moody, L., Tegge, A.N., Park, H., Ahn, W., Bickel, W.K. (poster presentation) Delay discounting and sequential decision making across the alcohol use and recovery spectrum. College on Problems of Drug Dependence Annual Meeting, San Diego, CA. June 2018.
16. Phung, Q. H., Snider, S. E., Bickel, W. K. (poster presentation). Willing to work but not to wait: Individuals with alcohol use disorder show increased delay discounting, but not effort discounting, compared to social drinkers. College on Problems of Drug Dependence Annual Meeting. San Diego, CA. June 2018.
17. Deshpande, H. U., Lisinski, J. M., Snider, S. E., Koffarnus, M. N., Bickel, W. K., LaConte, S. M. (poster presentation). Support vector machine classifier reveals that variations in subject fMRI maps encode impulsivity. Organization for Human Brain Mapping (OHBM). Singapore. June 2018.
18. Mellis, A. M., Deshpande, H. U., Lisinski, J. M., Stein, J. S., Koffarnus, M. N., Pauluch, R., Schweser, F., Zivadinov, R., LaConte, S. M., Epstein, L. H., Bickel, W. K. (poster presentation). Imaging decision-making in reinforcer pathology. American Psychological Association Annual Meeting, Division 50. San Francisco, CA. August 2018.
19. William H. Craft, Jeffrey S. Stein, Rocco Paluch, Leonard H. Epstein, and Warren K. Bickel. (poster presentation). Impulsive choice in prediabetics: The effects of episodic future thinking and negative income shock". Translational Biology, Medicine, and Health Graduate Program 2018 Annual Research Symposium. Blacksburg, VA. October 12, 2018.
20. Foster, R. N. S., Kaplan, B. A., Bickel, W. K., Reed, D. D. (poster presentation). A reinforcement pathology model of ultraviolet indoor tanning. Association for Behavior Analysis International Substance Use and Addiction Conference. Washington DC. November 2018.
21. Mellis, A. M., Bickel, W. K. (poster presentation). Testing the temporal window: The temporally extended reinforcer measure. Society for Behavioral Medicine. Washington, DC. March, 2019.
38. Snider, S.E., DeHart, W. B., Bickel, W. K. (poster presentation). Does delay discounting predict maladaptive health and financial behaviors in smokers? Society for Behavioral Medicine. Washington

DC. March 2019.

39. Hanlon, C.A., Snider, S. E., Perry, E. S., Bickel, W. K. (poster presentation). Theta Burst Stimulation to the Medial Prefrontal Cortex: A novel tool to decrease food cue reactivity and shift behavioral choice in obese individuals. Neuroimaging and Modulation in Obesity and Diabetes Research: 10th Anniversary Meeting. NIH Main Campus, Bethesda MD. April 16, 2019.
40. Kaplan, B. A., Crill, E. M., McBee, H., Bickel, W. K., Koffarnus, M. N. (poster presentation). Behavioral economic demand elasticity significantly predicts blood nicotine across reduced-nicotine cigarettes: A preliminary analysis. Society for the Quantitative Analysis of Behavior. Chicago, IL. May 2019.
41. Miller, J. R., Kaplan, B. A., Bickel, W. K., Reed, D. D. (talk). Obesity and behavioral economics: Examining sex differences in relations between delay discounting, intensity, persistence, and body mass index across obesogenic commodities. In R. N. S. Foster (Chair). Applying behavioral economics to issues of everyday importance. Symposium presented at the 45th Annual Convention of the Association for Behavior Analysis International, Chicago, IL. May 2019.
42. Mellis, A. M., Bickel, W. K. (poster presentation). Development and initial validation of the TERM: A temporally extended reinforce measure. College on Problems of Drug Dependence Annual Meeting. San Antonio, TX. June 16, 2019.
43. Snider, S. E., Turner, J., Bickel, W. K. (poster presentation). Exacerbating reinforcer pathology: Hurricane-associated loss increases delay discounting and demand for cocaine in cocaine users. College on Problems of Drug Dependence Annual Meeting. San Antonio, TX. June 17, 2019.
44. Koffarnus, M. N., Lisinski, J., LaConte, S., Willson, T., Bickel, W. K., Johnson, M. (poster presentation). Neural correlates of stimulant use, gender, and risky sexual practices in sexual and monetary delay discounting. College on Problems of Drug Dependence Annual Meeting. San Antonio, TX. June 18, 2019.
45. Basso, J. C., Satyal, M. K., Metpally, A., Bickel, W. K. (poster presentation). High rates of temporal discounting among individuals with heightened dissociative symptomatology. Society for Neuroscience Conference. Chicago, IL. October 2019.
46. Basso, J. C., Satyal, M. K., Metpally, A., Bickel, W. K. (poster presentation). Examining the neurobehavioral mechanisms underlying obesity. Obesity Society Annual Meeting. Las Vegas, NV. November 2019.
47. Stein, J. S., Craft, W. H., Paluch, R. A., Bickel, W. K. (poster presentation). Combined effects of episodic future thinking and negative income shock on delay discounting in patients with prediabetes. Obesity Society Annual Meeting. Las Vegas, NV. November 2019.
48. Bickel, W. K., Stein, J. S., Heckman, B. W., Pope, D. A., Freitas Lemos, R., Kaplan, B. A., Cummings, K. M., Borland, R., Fong, G. T. The Experimental Tobacco Marketplace: Estimating the effects of policy. In M. Cummings. *Evaluating the Impact of Nicotine Regulatory Policies in a Rapidly Changing Market: Findings from the ITC Project in the United States, Canada, England, and Australia*. Society for Research on Nicotine and Tobacco Annual Meeting. New Orleans. March 2020. [presented by B. Heckman--W. Bickel was unable to attend the conference]
49. Freitas Lemos, R., Stein, J. S., Tegge, A. N., Pope, D. A., Epstein, L. H., Bickel, W. K. (digital poster). E-liquid purchase as a function of workplace restriction in the Experimental Tobacco Marketplace. Society for Research on Nicotine and Tobacco (SRNT) Annual Meeting, New Orleans, LA. March 2020.

50. Bickel, W. K. Neurobehavioral determinants of addiction. VTCSOM Block IV Faculty Sessions: The Behavioral Neuroscience of Addiction. Online lecture. May 5, 2020.
51. Basso, J. C., Satyal, M. K., Good, D. J., English, D. F., Bickel, W. K. (poster presentation). An investigation of exercise motivation in normal weight and obese humans and rodents. American College of Sports Medicine Annual Meeting, Online. June 2020.
52. Freitas Lemos, R., Stein, J. S., Kaplan, B. A., Heckman, B. W., Bickel, W. K. (poster selected for oral section). Purchasing vaping products in the Illegal Experimental Tobacco Marketplace. College on Problems of Drug Dependence Annual Meeting online. June 2020.
53. Keith, D. R., Athamneh, L., Bickel, W. K. (poster presentation). The phenotype of recovery: Associations between delay discounting, recovery capital, and length of abstinence among individuals in recovery from substance use disorders. College on Problems of Drug Dependence Annual Meeting, Virtual Meeting. June 2020.
54. Satyal, M. K., Basso, J. C., Bickel, W. K. (poster presentation). Phenotype of recovery: Heightened hedonic hunger in early substance use recovery may lead to overweight or obese outcomes. The College on Problems of Drug Dependence Scientific Meeting, Virtual Conference. June 2020.
55. Tomlinson, D. C., Bickel, W. K. (poster presentation). Phenotype of recovery: Delay discounting predicts perceived stress and a chance locus of control in individuals in recovery from substance use disorders. The College on Problems of Drug Dependence Annual Meeting, Virtual Conference. June 2020.