

## CURRICULUM VITAE

### TURHAN CANLI

Dept. of Psychology  
 Stony Brook University  
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#### General Research Interests

- Molecular Psychology (application of molecular biology to the study of behavior): gene-environment interactions, epigenetics and other gene regulatory mechanisms
- Personality and Social Neuroscience, Positive Neuroscience
- Political Genomics
- Neuroethics
- Global Issues: Microcredits, Child Soldiers, Global Mental Health

#### Awards

- 2008 James McKeen Cattell Sabbatical Award (Cattell Fund and Association for Psychological Science)
- 2007 Closing Lecture: 43<sup>rd</sup> National Psychiatry Congress, Istanbul, Turkey, October 27, 2007.
- 2006 Alumni Recognition Award, EPIIC (Education for Public Inquiry and International Citizenship), Tufts University. "In recognition of your distinguished scholarly accomplishments, path-breaking ways to understand the brain, and your dedication to ethics in science and public policy". February 23, 2006.
- 2005 Opening Lecture: 8th Meeting of the Differential Psychology, Personality Psychology, and Psychological Diagnostics, Marburg, German, September 26, 2005.
- 2005 Outstanding Mentoring Award, Paul D. Schreiber High School
- 2002 APA Div. 6 D.G. Marquis Award for the best paper in *Behavioral Neuroscience* in 2001
- 2001-3 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression (NARSAD)
- 1996-9 National Research Service Award (NRSA)
- 1992 Fifth Year Dissertation Fellowship (Yale University)
- 1988 Benjamin G. Brown Scholarship (Tufts University)
- 1987 The Class of 1921 Leonard Carmichael Prize Scholarship (Tufts University)
- 1987 Elected to Phi Beta Kappa (Tufts University)
- 1987 Elected to Psi Chi National Honors Society (Tufts University)
- 1987 President's Young Scholar (Tufts University)
- 1987 UCI Summer Institute (University of California at Irvine)

#### Education

##### Degrees

Yale University, Graduate School of Arts and Sciences, New Haven, CT.  
 1993 Ph.D. (Psychobiology)

- 1991 M.Phil. (Psychobiology)  
 1989 M.S. (Psychobiology)

Tufts University, College of Liberal Arts, Medford, MA.

- 1988 B.A., *summa cum laude, summo cum honore in thesi* (Psychology)

### **Professional Post-Graduate Training and Workshops**

- 2008 Sabbatical Leave. 12 months mentored bench training in Molecular Biology and Epigenetics, Genomic Core Facility, Stony Brook University. Trained by its Director, Dr. Eli Hatchwell.
- 2004 Certification in Basic Life Support for Health Care Providers
- 2004 Certification in Seizure Management and Transcranial Magnetic Stimulation, Intensive Course in Transcranial Magnetic Stimulation, Harvard Medical School, Beth Israel Deaconess Medical Center - East Campus, Laboratory for Magnetic Brain Stimulation, February 9-13, 2004.
- 2002 Certification in Molecular Biology, New England Biolabs Workshop in Molecular Biology and PCR, Smith College, MA, June 23 - July 6, 2002.
- 2002 Statistical Parametric Mapping Workshop, Wellcome Department of Cognitive Neuroscience, London, England, May 17-18, 2002.

### **Appointments**

Stony Brook University, Stony Brook, NY

- 2008 – Present Senior Fellow, Center for Medical Humanities, Compassionate Care, and Bioethics
- 2007 - Present Associate Professor, Department of Psychology
- 2007 - Present Director, SCAN (Social, Cognitive, and Affective Neuroscience) Center
- 2004 - Present Graduate Program in Genetics
- 2001 - 2006 Assistant Professor, Department of Psychology

University of California, Berkeley, CA

- 2000 (Fall) Lecturer, Department of Psychology

Stanford University, Stanford, CA

- 1996 - 2001 Visiting Scholar, Department of Psychology
- 1995 - 1996 Postdoctoral Research Affiliate, Department of Psychology

Yale University, New Haven, CT

- 1993 - 1995 Postdoctoral Research Associate, Department of Psychology

### **Research Support**

#### **CURRENT:**

National Science Foundation, BCS-0843346

“The Human Stress Response: Interaction of Life Stress History and Genetic Variation on Behavior, Brain Function, and the (Epi-)Genome”

Turhan Canli, P.I. (20% academic year, 25% summer)

\$882,000, 7/24/09-8/31/12

The goal of this study is to investigate gene by environment interactions on individual differences in stress reactivity in behavior, brain circuits, and gene expression and epigenetic markers within these brain circuits.

SBU-BNL Seed Grant

“The neurogenetics of impulsivity: individual differences within the dopamine transporter (*DAT*) gene assessed with PET and fMRI”

Turhan Canli, P.I.

\$24,000, 6/1/2005-5/31/2010

The goal is to combine PET and fMRI neuroimaging to determine the distribution and functional activation of the dopamine transporter (*DAT*) system, and to relate individual differences *DAT* distribution with genetic variation in the *DAT* gene.

National Institutes of Health, National Institute on Aging, 1 R01 AG034578-01

“Gene-Environment Interactions in Loneliness and Stress Reactivity in Older Adults”

Turhan Canli, P.I.

\$2,350,000, 6/24/2009-8/31/2014

This project uses a combination of behavioral, neuroimaging, and *postmortem* whole genome expression analyses to investigate gene regulation changes as a function of psychosocial stress (loneliness) in the elderly.

**PENDING:**

National Institutes of Health, National Institute on Aging

“(Epi-) Genetics of Economic Phenotype in Older Adults”

Turhan Canli, P.I.

\$1,212,000, 12/15/2010-12/14/2013

This project investigates associations between individual differences in risk aversion and temporal discounting as a function of peripheral (blood) and CNS whole-genome gene expression, and its molecular regulatory mechanisms.

**FUNDING FOR MENTORED/ADVISORY/SUPERVISORY ACTIVITY:**

Deutsche Forschungsgemeinschaft (Germany)

“Gene environment interaction effects of genetic variability and early life stress on psychosocial stress reactivity”

Sponsor of Dr. Anett Mueller

1/1/2010-6/30/2011

This project will investigate the role of early life stress and candidate genes or environmentally plasticity in the context of individual differences in social stress reactivity.

National Institutes of Health, National Institute on Aging, KO1 AG033182-02

“The Economics and Psychology of Self-Control”

Co-Advisor to Angela Lee Duckworth (Main Adviser: Jim Heckman, Economics, University of Chicago)

2009-2014

This project is designed to integrate an interdisciplinary research program on self-control and other capacities that determine economic, social and health outcomes across the life course.

National Institutes of Health. Ruth L. Kirchstein National Research Service Award.

“The Neurogenetic Basis of Behavioral Inhibition”

Sponsor of Eliza Congdon

9/1/06-5/30/08

This project tested the hypothesis that variants of two dopamine system-related genetic polymorphisms (DAT and COMT) influence the neural network underlying behavioral inhibition, a more direct expression of impulsivity.

### **PAST:**

National Science Foundation, OIA #0722874

“Acquisition of a Research-dedicated Magnetic Resonance Scanner at Stony Brook University”  
Turhan Canli, P.I.

\$ 1,918,878, 08/31/2007-08/30/2009

This is a major research instrumentation application to bring a research-dedicated fMRI scanner to Stony Brook. At the current time, Stony Brook does not have such a facility, forcing a number of faculty to scan elsewhere.

GCRC#*MO1RR10710*

“Neurogenetic Correlates of Psychosocial Stress”

Turhan Canli, P.I.

\$24,000, 10/1/2008-12/31/2009

The goal of this project is to measure gene expression in *postmortem* human brain tissue, using the Affymetrix Human Genome U133A 2.0 Array.

National Science Foundation, BCS-0224221

“fMRI of Hormonal Variation in Cognitive-Affective Processing”

Turhan Canli, P.I. (25% academic year, 75% summer)

\$638,658, 9/15/02-8/31/08

The goal of this study is to use functional magnetic resonance imaging (fMRI) to evaluate the role of ovarian steroids in brain activation patterns during cognitive-affective processing. A secondary goal is to relate individual differences in brain activation to genetic variation and hormonal state.

National Institute of Health, 1R13-MH067835-01A1

“Biological Basis of Personality and Individual Differences” (Funding for 3-day conference)

Turhan Canli, P.I.

\$49,700 total direct cost, conference to be held 9/1-9/4/04

Research on the biological basis of personality and individual differences has been catalyzed by recent methodological advances in genetics and neuroscience. This conference will offer a forum for interactions between psychologists and biologically oriented researchers who share an interest in personality and individual differences and will feature nineteen clinicians, geneticists, psychologists, and neuroscientists from the United States, South America, Europe, and Australia.

National Alliance for Research on Schizophrenia and Depression (NARSAD)

“Functional Magnetic Resonance Imaging of Social Phobia”

Turhan Canli, Fellow (10% during academic year)

\$60,000 total direct cost 7/1/2001 – 6/30/2004

The major goal of this project is to evaluate the role of the amygdala in SP, using functional magnetic resonance imaging.

National Institute of Health, 5F32MH011402-03 (NRSA Postdoctoral Fellowship)

“Functional Magnetic Resonance of Emotion”

Turhan Canli, P.I. 10/01/1996 - 09/30/1999

## Teaching and Mentoring Experience

### Classes taught:

- *Graduate*  
Affective Neuroscience (Spring 2002, SUNY Stony Brook)  
The Biological Basis of Personality (Fall 2005)
- *Undergraduate*  
Changing the world with \$20 Microcredits (Spring 2010)  
Introductory Psychology (Spring 2003, 2004, 2005, Spring and Fall 2006, Fall 2007 and 2009, Stony Brook University)  
Neuroethology (Fall 2001, 2002, 2003, Stony Brook University)  
Introduction to Personality (Fall 2000, University of California, Berkeley)  
Neuroscience of Learning and Memory (1988, Tufts University)  
Research Methods (Spring 2006, 2007, 2009, Stony Brook University)  
Supervised Research Tutorials (2001- Present, every semester)  
Honors Program (Spring 2007, Stony Brook University)

### Advisees:

- *Postdoctoral*  
Dirk Moser (2010-present), Anett Müller (2010-present), Kazufumi Omura (2003-2006).
- *Graduate*  
Zenab Amin (2001-5), Eliza Congdon (2002-8), Alicia Grande (2005-2007), Elif Duman (2007-present), Jamie Ferri (2008-present), Xiaosi Gu (2005-2007), Brian Haas (2002-6), Yael Isler (2009-present), Magdalena Jurkiewitz (M.D./Ph.D., MSTP 2009-present), Breana Miller (Medical, Summer 2002), Jasmin Roohi (M.D./Ph.D., MSTP, Summer 2004).
- *Undergraduate*  
Radeyah Hack (2005-6), Jayanta Hedge (2001-2), Sarah Khan (2001-3), Chris Lonardo (2006), Nicole Marsan (2006-7), Jezreel Otto (2003-4, 2006-7), Ioana Radu (2002-3), Elizabeth Ramjas (2006-7), James Ryan (2009- ), Crystal Sandiford (2004-6), Shephali Sharma (2009- ), Jason-flor Sisante (2005-7), Lindsay Slater (Cornell University, Summer 2002), Narumi Tokunaga (2004-6), Shaomin Wei (2005).
- *High School*  
Christine Ellman (Summer 2004), Rachel Goldstein (Summer 2004, 2005), Kristin Grotecloss (Fall 2002), Karen Law (Summer 2002), Hillary Lin (Summer 2006-Spring 2007), Julie Linzer (Summer 2005), Hillary Wool (Summer 2004 - Spring 2005).
- *Advisee Honors*  
2008 Eliza Congdon: President's Award to Distinguished Doctoral Students (Stony Brook)  
Elizabeth Ramjas: Minorities in Psychology Award (Stony Brook)  
2007 Hillary Lin, Intel Semi-Finalist  
Eliza Congdon:
  - SfN Women in Neuroscience Graduate Student Travel Award

- Invited Presenter, NIH National Graduate Student Research
- 2006 Brian Haas, Retirees' Dissertation Fellowship  
 Eliza Congdon, Alumni Graduate Summer Fellowship  
 Rachel Goldstein:
- Intel Semi-Finalist
  - Round One Winner: Long Island Science and Engineering Fair
  - 2<sup>nd</sup> place, Round Two: Long Island Science and Engineering Fair
  - 2<sup>nd</sup> place, New York State Science and Engineering Fair
  - The American Psychological Association Teachers of Psychology in Secondary Schools : Certificate of Award for Outstanding Research in Psychology
- Crystal Sandiford, Minorities in Psychology Scholarship Award, Dept. of Psychology, Stony Brook University  
 Narumi Tokunaga , 2<sup>nd</sup> place, Psi Chi Research Conference
- 2005 Jason-flor Sisante , MARC (Minority Access to Research Career) Fellowship  
 Eliza Congdon , Alumni Research Fellowship, Honorable Mention  
 Rachel Goldstein , Simons Fellow  
 Narumi Tokunaga , URECA (Undergraduate Research and Creativity Award) Research Fellowship  
 Hillary Wool:
- 1st Place at the Rohm and Haas Invitational Science Fair (Behavioral Science category)
  - Round One Winner -- Long Island Science and Engineering Fair
  - Honorable Mention in Round Two of LISEF
  - The American Psychological Association Teachers of Psychology in Secondary Schools : Certificate of Award for Outstanding Research in Psychology
- 2004 Eliza Congdon , Award for Excellence in Research (2nd Year Project)  
 Christine Ellman, Simons Fellow  
 Hillary Wool , Simons Fellow
- 2002 Karen Law
- Intel Semi-Finalist
  - Simons Fellow
- 2002 Breena Miller , M.D., with recognition in research program  
 2002 Kristin Grotecloss , Discovery Young Scientist Challenge Finalist  
 2001 Jayanta Hedge, Honors College  
 Sarah Khan, Honors College

#### Dissertations supervised:

- Eliza Congdon. *The Neurogenetic Basis of Behavioral Inhibition*. Defended April 25, 2008.
- Brian Haas. *Differential Temporal Dynamics of BOLD Signal during Emotional Tasks Associated with Personality*. Defended December 6, 2006.
- Zenab Amin. *Effects of Hormonal Variation on Neural Correlates of Cognitive-Affective Processing*. Defended August 12, 2005.

#### Alumni Placements (first placement after graduation):

##### *Postdoctoral Advisee Alumnus:*

Kazufumi Omura, Ph.D., Associate Professor, Yamagata University, Japan

*Graduate Advisee Alumns:*

Zenab Amin, Ph.D., Postdoctoral Fellow, Yale University  
 Eliza Congdon, Ph.D., Postdoctoral Fellow, University of California, Los Angeles  
 Brian Haas, Ph.D., Postdoctoral Fellow, Stanford University

*High School Advisee Alumns:*

Christine Ellman, Yale University  
 Rachel Goldstein, Cornell University  
 Karen Law, Massachusetts Institute of Technology  
 Hillary Lin, Stanford University  
 Hillary Wool, Dartmouth College

<b>Professional Activities and Memberships</b>
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2006 Co-Founder, Member of the Board of Directors and Executive Board, The Neuroethics Society

Extensive activities, including membership on the Executive Board since 2006, Chairmanship of the Organizing Committee for the Annual Society Meetings, international travel lecturing, promoting, and supporting the development of Neuroethics (details listed under the relevant sections).

National and International Advisory Service

2009 - Present Distinguished Advisor and Member, Templeton Positive Neuroscience Awards Steering Committee  
 2009 - Present Advisory Council, Brazilian Ethics and Bioethics Institute, Sao Paulo, Brazil.  
 2008 - Present Member, National Advisory Council on Aging (NACA), Genetics Subcommittee. National Institute on Aging (NIA), Division of Behavioral and Social Research (DBSR).  
 2005 - Present Adviser to the Clinical Research Group on Attention-Deficit-Hyperactivity Disorder, Julius-Maximilians-Universität Würzburg, Germany.  
 2005 - 07 Adviser on "Identity" exhibit, Franklin Institute, Philadelphia, PA.

International Dissertation Supervision and Examination

2008 – Present Jonas Waider, Julius-Maximilians-Universität Würzburg, Germany.  
 2008 Susanne Henningson, Institute of Neuroscience and Physiology at Sahlgrenska Academy, University of Gothenburg, Sweden.

Board Membership

2006 – Present Member of the Board of Directors and Executive Board and Co-Founder, Neuroethics Society

Editorial Positions

2008- Present Editorial Board, *Psychological Bulletin*  
 2005- Present Associate Editor, *Social Neuroscience*  
 2004-7 Consulting Editor, *Emotion*  
 2004-5 Consulting Editor, *Psychophysiology*  
 2004-5 Consulting Editor, *Individual Differences Research*

Chair

Symposium on “Genetics of Stress”, Spring School: The ABC of Stress. University of Dresden, Germany, March 19, 2009.

Symposium: Genetic Contributions to Affect. Emotion Pre-Conference, Society for Personality and Social Psychology (SPSP), Albuquerque, NM, February 7, 2008.

Session on “The body/mind shop”. Seventh international joint conference on Science and Society: "Genes, Brain/Mind and Behaviour". Co-sponsored by The European Molecular Biology Laboratory (EMBL) and the European Molecular Biology Organization (EMBO). Heidelberg, Germany, November 3-4, 2006.

Organizer, Chair, and Panelist. Neuroscience and Neuroethics in the War on Terror. First International Workshop in Neuroethics and Homeland Security. Tufts University and The Boston Museum of Science, September 29, 2006.

Symposium: Neural Basis of Personality and Social Behavior. Annual Convention of the Society for Experimental Social Psychology, Fort Worth, TX, October 16, 2004.

Review Panel Member

2009 National Science Foundation, Cognitive Neuroscience  
 2007 National Institute of Mental Health, special Emphasis Panels, R24 - Building translational research in integrative behavioral science: ZMH-1 CNF ERB-C 01  
 2006 National Institutes of Health, Special Emphasis Panels: ZMH1 ERB-Q (01)  
 2005- National Science Foundation, Minority Post-Doctoral Fellowship Program  
 2004-05 National Science Foundation, Human and Social Dynamics Panel  
 2004- National Institutes of Health, Special Emphasis Panels: Language & Communication, Cognition & Perception, Cognitive Fellowship Panel F12A

Reviewer, Journals

Archives of General Psychiatry; Behavioral Neuroscience; Biological Psychiatry; Biological Psychology; Brain; Brain Research; Cerebral Cortex; Cognitive, Affective, & Behavioral Neuroscience; Consciousness and Cognition; Current Opinion in Neurobiology; Developmental Psychobiology; Emotion; Genes, Brain, and Behavior; Human Brain Mapping; Individual Differences Research; The International Journal of Neuropsychopharmacology; JAMA; Journal of Neuroscience; Journal of Cognitive Neuroscience; Journal of the International Neuropsychological Society; Journal of Personality and Social Psychology; Learning & Memory; Nature; Nature Neuroscience; Nature Protocols; Neuroimage; Neuroscience; Neuroscience Imaging; Neuroscience Letters; Proceedings of the National Academy of Sciences; Proceedings of the Royal Academy, B; Psychiatry Research; Psychiatry Research: Neuroimaging; Neuroimage; Psychology and Aging; Psychological Bulletin; Psychological Science; Psychoneuroendocrinology; Psychophysiology; Science; Social, Cognitive, and Affective Neuroscience; Social Neuroscience; Social and Personality Psychology Compass; The Quarterly Journal of Experimental Psychology (A); Trends in Cognitive Science; Trends in Neurosciences.

Reviewer, Tenure Decisions

- 2009 Candidacy of Dr. Jeremy Gray for Promotion to Associate Professor, Department of Psychology, Yale University

#### Reviewer, Other

- 2009 National Science Foundation (NSF)
- 2008 Reviewer for a book proposal (“Motivation Perspectives on Cardiovascular Response”, Editors: Wright and Gendolla) presented to Oxford University Press.
- 2006 Veteran’s Administration Research & Development Service  
University of Ottawa's University Medical Research Fund (Department of Psychiatry)  
Social Sciences and Humanities Research Council of Canada
- 2005 Deutsche Forschungsgemeinschaft (Germany)  
Reviewer for a book proposal (“Sex on the brain: From genes to behavior”; Editors: Jill B. Becker, Karen Berkley, Nori Geary, Elizabeth Hampson, James Herman, and Elizabeth Young) presented to Elsevier.
- 2003 National Science Foundation (NSF)  
FWF (Austrian Science Agency)  
ISF (Israel Science Foundation)  
The Wellcome Trust (U.K.)  
Book Review of ‘*Emotional Cognition*’, Moore & Oaksford (Eds.), John Benjamins Publishing (2002)
- 2002 National Science Foundation (NSF)  
FWF (Austrian Science Agency)  
The Wellcome Trust (U.K.)
- 2000 Book Review of ‘*Current Controversies & Issues in Personality*’ (3<sup>rd</sup> edition), by L.A. Pervin, John Wiley & Sons, Inc. (2000)

#### Consultant

- 2001 FaxMed, Inc. (2001)
- 2000 *Pharmacia & Upjohn*, member of an advisory panel to discuss brain imaging approaches to drug discovery

#### Conferences and Workshops Organized

- 2010 Conference Organizer and Organizing Committee Chair of the Second Annual Meeting of the Neuroethics Society, Washington, D.C., May 10-11, 2010.
- 2008 Conference Organizer and Organizing Committee Chair of the First Annual Meeting of the Neuroethics Society, Washington, D.C., November 13-14, 2008.
- 2006 Organizer: “Neuroscience and Neuroethics in the War on Terror”. First International Workshop in Neuroethics and Homeland Security. Tufts University and The Boston Museum of Science, September 29, 2006.
- 2004 Organizer: Conference on “The biological basis of personality and individual differences”, Stony Brook University, August 13-15, 2004.
- 2004 Organizer: Invited symposium on functional neuroimaging and social psychology, Annual Meeting of the Society for Experimental Social Psychology, Fort Worth, Texas, October 16, 2004.
- 2001 Organizer: Social on “Biological Basis of Personality, Sex Differences, and Individual Differences”, Annual Meeting of the Society for Neuroscience, San Diego, CA.
- 1996 Founder and Organizer: Stanford Affective Neuroscience Seminar Series

Professional Memberships

American Association for the Advancement of Science  
 American Psychological Association  
 Association for Psychological Science  
 Epigenetics Society  
 International Behavioral and Neural Genetics Society  
 Neuroethics Society  
 Society for Cognitive Neuroscience  
 Society for Neuroscience  
 Society for Social and Personality Psychology

<b>Department and University Service</b>
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Departmental Specialties and Dissertation Committee Service

2005 Eliza Congdon, Brian W. Haas  
 2004 Zenab Amin  
 2002 David J. Echevarria, Charles Metzger, Stewart Shankman  
 2001 Jennifer E. Graham, James P. Morris

Dissertation Committee Service

2009 Tsafir Greenberg, Genna Hymowitz, Jadzia Jagiellowicz  
 2008 Bianca Acevedo, Eliza Congdon, Xiaomeng (Mona) Xu  
 2007 Bryan Jones  
 2006 Bianca Acevedo, Eliza Congdon, Brian W. Haas, Bryan Jones, Sarah Ketay  
 2005 Zenab Amin, Stewart Shankman  
 2003-4 Wynne Schiffer (Neurobiology)  
 2003 David J. Echevarria, James P. Morris

Other Dissertation Committees

2009 Mary Kusenda (CSHL, Stony Brook Genetics Program)  
 2008 Mary Kusenda (CSHL, Stony Brook Genetics Program)

Other Departmental Committee Service

Graduate Education Committee (2002- 2007)  
 Clinical Faculty Search (2004, 2009)  
 Colloquium Committee (2002-2003)  
 Biopsychology Faculty Search (2002)  
 Reputation Committee (2001-02)

University Committee Service

Bioimaging Institute Executive Committee (2009-)  
 Imaging Project Executive Committee (2008)  
 Core Committee, Computational Neuroscience Center Chair Search (2007-2008)  
 General Advisory Council (GAC), General Clinical Research Center (GCRC) (Spring 2005-present)  
 University Senate, Graduate Council (Fall 2005- Spring 2006)  
 Simons Fellowship Committee (2002- 2008)

**Invited Presentations**

*From SNPs to epigenetic regulation of stress reactivity: new horizons.* Dresden Spring School, **Technische Universität Dresden, Germany**, March 19, 2010.

*Neuroimaging of gene-environment interaction in personality.* **St. John's University, Jamaica, NY**, March 17, 2010.

*Neuroimaging of gene-environment interaction in personality.* **University of Massachusetts, Amherst**, December 10<sup>th</sup>, 2009.

*How life leaves its fingerprints on the genome – The end of genetic determinism.* Panel Discussant on “Nature and Nurture: Their Contributions to Behavior”, DeVos Medical Ethics Colloquy on Nature and Nurture. Grand Rapids, MI, September 28, 2009.

*The state of molecular psychology.* **Bilgi University, Istanbul, Turkey**, September 17, 2009.

*Gene-Environment Interaction and the Serotonin Transporter Gene Polymorphism.* **Annual Congress of the European College of Neuropsychopharmacology (ECNP), Istanbul, Turkey**, September 16, 2009.

*The neural basis of gene-environment interactions.* **36th International Congress of Physiological Science, Kyoto, Japan**, July 27, 2009.

*Towards epigenetic mechanisms in the human brain.* Experimental Neuropsychology and Cognition Research Center (Centre de Recherche En Neuropsychologie expérimentale et Cognition-CERNEC), **l'Université de Montréal, Canada**, April 24, 2009

*Neuroimaging of gene-environment interactions.* **Columbia University, New York, NY**, April 15, 2009.

*Neuroimaging of gene-environment interactions.* **Northwestern University, Evanston, IL**, April 2, 2009.

*Imaging Genetics of Neuroticism – A Role for Life Stress.* Spring School: The ABC of Stress. **University of Dresden, Germany**, March 19, 2009.

*Imaging Genetics of Neuroticism.* 12th Annual Scientific Research Symposium sponsored by the **Anxiety Disorders Association of America, Albuquerque, NM**, March 13, 2009.

*Neurogenetics of gene-environment interactions.* **Pennsylvania State University, Philadelphia, PA**, February 25, 2009.

*The Molecular Psychology of Human Emotionality.* International Symposium on the Neuroscience of Emotion. **Keio University, Tokyo, Japan**, February 9, 2009.

*Serotonergic Regulation of Affect and Personality.* Department of Clinical Neuroscience, Sahlgrenska Academy, **University of Gothenburg, Sweden**, November 6, 2008.

*Imaging Genomics*. Workshop on Biology of Social Cognition, **Cold Spring Harbor Laboratory (CSHL)**, July 14-20, 2008.

*Opportunities for advancing behavioral and social research on aging: An introduction for psychological scientists*. **Association for Psychological Science (APS) Pre-Conference Workshop, Chicago, IL**, May 22, 2008.

*Brain imaging of gene x environment interactions*. **Society for the Study of Motivation Meeting** (Pre-conference associated with Association for Psychological Science), **Chicago, IL**, May 22, 2008.

*Neurogenetics of neuroticism and depression vulnerability*. **American Psychosomatic Society (APS) 66<sup>th</sup> Annual Meeting, Baltimore, MD**, March 12-15, 2008.

*Neuroimaging of gene-environment interactions in affective processing*. **European Molecular Biology Laboratory (EMBL), Monterotondo, Italy**, March 5, 2008.

*Neuroethics of transcranial magnetic stimulation*. Present and future of TMS. Safety and Ethical Guidelines. **Certosa di Pontignano, Siena, Italy**, March 6-9, 2008.

*A neural model of gene-environment interactions in affective processing*. Chair: Genetic Contributions to Affect. Emotion Pre-Conference, **Society for Personality and Social Psychology (SPSP), Albuquerque, NM**, February 7, 2008.

*Neurogenetics of Personality*. Tamagawa-Caltech Joint Workshop “Neural Mechanisms of Social Mind”, Brain Science Institute, **Tamagawa University, Tokyo, Japan**, December 7, 2007.

*Gene-Environment Interactions: Neurogenetics of Personality*. Department of Psychology, **Yale University**, November 29, 2007.

*Neural mechanisms for gene-environment interactions and their implications*. Roundtable Discussion on: *Genes for mental phenomena - implications for society*. **Annual Meeting of the Society for Neuroscience**, San Diego, November 7, 2007.

*Closing Lecture: Vulnerability for psychopathology: current trends in genomic imaging*. **43<sup>rd</sup> National Psychiatry Congress, Istanbul, Turkey**, October 27, 2007.

*Workshop: Designing a research study in genomic imaging*. **43<sup>rd</sup> National Psychiatry Congress, Istanbul, Turkey**, October 27, 2007.

*Genes and Emotions*. **Fatih University, Istanbul, Turkey**, October 25, 2007.

*Current Issues in Genomic Imaging*. Department of Psychiatry, **University of Würzburg, Würzburg, Germany**, October 6-9, 2007.

*Neurogenetics of Emotion and Personality*. Graduate Kolleg Summer School of the University of Würzburg, **Kloster Bronnbach, Germany**, October 8, 2007.

*Neuroethics – An Overview.* **Brazilian Congress of Bioethics, Sao Paulo, Brazil, August 27, 2007.**

*Genomic Psychology.* **Summer Institute in Social Neuroscience.** University of California, Santa Barbara, June 26, 2007.

*Genes and Affect.* **Cold Spring Harbor Laboratory Summer Course** on “Molecular Mechanisms of Arousal and Attention”. Cold Spring Harbor, Banbury Center, June 23, 2007.

*Neuroticism as a Risk Factor for Depression: A Neural Model of Gene-Environment Interaction.* Symposium on: Cognitive, Neural, and Genetic Components of Mood-Related and Personality Pathology, **Association for Psychological Science (APS) Annual Convention**, Washington, D.C., May 27, 2007.

*Neural Correlates of Epigenetics.* **Society for Biological Psychiatry.** 62<sup>nd</sup> Annual Scientific Convention and Meeting, San Diego, CA, May 17, 2007.

*Smart Drugs go to War.* The Neuroethics of Enhancement: how smart are smart drugs? **Dana Foundation**, Washington, D.C., May 14, 2007.

*Genes, Brains, and Behavior: Genomic Psychology.* **F.C. Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands**, May 11, 2007.

*Genes and Affective Processing.* Advanced Study Initiative (ASI) on Integrating Imaging and Genetics in Cognitive Research, **Royal Academy of Science, Amsterdam, The Netherlands**, May 10, 2007.

*Neural Correlates of Emotion and Personality: the role of gene-environment interactions,* Department of Psychology, **University of California, Berkeley**, January 16, 2007

*Neural Correlates of Emotion and Personality: the role of gene-environment interactions,* Magnetic Resonance Research Center, **Yale University**, January 11, 2007.

**Chair and Panelist:** Session on “The body/mind shop”. **Seventh international joint conference on Science and Society:** "Genes, Brain/Mind and Behaviour". Co-sponsored by The European Molecular Biology Laboratory (EMBL) and the European Molecular Biology Organization (EMBO). **Heidelberg, Germany**, November 3-4, 2006.

Discussant: *Neuroscience Applications in the U.S. Army.* Workshop on Opportunities in Basic Research in the Behavioral and Social Sciences for the U.S. Military. **The National Academies**, Washington, D.C., October 24, 2006.

*Neuroscience Applications in Aviation Security.* **AVSEC (Aviation Security) World, Sydney, Australia**, October 18, 2006.

*The Serotonin Transporter Polymorphism - Neural Correlates of Action and Epigenesis,* Department of Psychology, **Yale University**, October 12, 2006.

*Neurogenetics of Personality and Affect.* **Mahoney Institute of Neurological Science, University of Pennsylvania**, October 3, 2006.

**Organizer, Chair, and Panelist.** *Neuroscience and Neuroethics in the War on Terror.* First International Workshop in Neuroethics and Homeland Security. **Tufts University and The Boston Museum of Science**, September 29, 2006.

*The neurogenetic basis of personality.* **Annual Meeting of the Society for the Study of Evolution**, Stony Brook University, June 23-27, 2006.

*The biology of personality: Genetic Influences on the brain.* Invited Lecture, Long Island Psychology Conference, **Hofstra University**, April 30, 2006.

Alumni Recognition Award Lecture: *The Politics of Fear: What is there to fear?* EPIIC Symposium on *The Politics of Fear*, **Tufts University**, February 23, 2006.

*Neurogenetic mechanisms of affect processing in personality.* Symposium on Individual Differences in Emotional Processing: Behavioral, Neural, and Genetic Mechanisms. **Annual Meeting of the Society for Personality and Social Psychology**, Palm Springs, January 26-28, 2006.

*Molecular-genetic mechanisms of emotional brain reactivity.* The 3rd Takeda PharmaScience Foundation Symposium on Frontiers in Neuro-PharmaSciences: Molecular Pathogenesis and Drug Action. **Tokyo, Japan**, December 6, 2005; Center of Excellence, **University of Tsukuba, Japan**, December 9, 2005.

*Neurogenetic Foundations of Personality.* **Princeton University**, Seminar Series on “Social Decision-making”, November 29, 2005.

*Homeland Security and Neuroscience: a neuroethics perspective.* EPIIC (Education for Public Inquiry and International Citizenship) Colloquium on Politics of Fear. **Tufts University**, October 18, 2005.

**Opening Lecture:** *Genomic imaging of personality: Towards a molecular neurobiology of neuroticism.* **Annual Meeting of the German Society for Psychology. University of Marburg, Germany**, September 26-27, 2005.

*Amygdala activation as a function of serotonergic gene variation: Case studies from the 5-HTT, HTR1A, and TPH2 polymorphisms.* Department of Psychiatry, **University of Würzburg, Germany**, September 23, 2005.

*Genomic imaging of personality.* Magnetic Resonance Research Center, **Yale University**, May 19, 2005.

*Genomic imaging of personality.* **Genetics Program Retreat** at the Stony Brook Sunwood Estate on Friday, January 21, 2005.

*Brain mapping of personality.* Department of Medicine. **Brookhaven National Laboratories**, November 18, 2004.

*Brain mapping of personality.* Minisymposium on Individual Differences in Brain-Behavior Relationships. **34<sup>th</sup> Annual Meeting of the Society for Neuroscience**, San Diego, California, October 23-27.

*Deconstructing neuroticism: gene-brain interactions during an emotional attention task.* Invited Symposium chair, Annual Convention of the **Society for Experimental Social Psychology**, Fort Worth, Texas, October 16, 2004.

*Imaging genomics of emotion.* Leipzig Workshop on Advances in the Cognitive Neuroscience of Emotional Communication, **Max Planck Institute for Human Cognitive and Brain Science, Leipzig, Germany**, September 4, 2004.

*Gene-Brain Associations in Personality.* **Conference on the Biological Basis of Personality and Individual Differences**, Stony Brook University, August 13, 2004.

*Neuroethics of personality neuroscience.* **New York Academy of Sciences**, New York, July 23, 2004.

*Towards molecular mechanisms of extraversion and neuroticism.* Department of Psychology, **Johns Hopkins University**, June 24, 2004.

*Brain mapping of extraversion and neuroticism: An individual differences approach.* **American Psychological Society**, 16<sup>th</sup> Annual Convention, Chicago, IL, May 28, 2004.

*Mapping genetic influences on emotional brain reactivity.* Cognitive Neuroscience Colloquium, **New York University**, April 2, 2004.

*Genetic polymorphisms and the neural basis of affective cognition.* Institute for Research in Cognitive Science Colloquium Series, **University of Pennsylvania**, February 27, 2004.

*Imaging genomics.* Department of Psychiatry, **University of Würzburg, Germany**, January 19, 2004.

*Emotional memory and personality.* Conference on 'Learning and the Brain'. **Harvard University/MIT**, Boston, MA, November 6, 2003.

*Cognitive-affective brain processes: The role of personality traits.* Workshop on Culture, Emotion and the Brain, Department of Psychology, **Harvard University**. June 23, 2003.

*Brain mapping of personality.* Department of Psychology, **University of Pittsburgh**, February 12, 2003;

*Brain mapping of personality.* Department of Neurobiology, **SUNY Stony Brook**, February 20, 2003;

*Brain mapping of personality.* **Swarthmore College** February 21, 2003;

*Brain mapping of personality.* Department of Radiology, **Yale University**, April 10, 2003.

*The integration of personality and affective-cognitive processing.* **Association for Research in Personality**, Los Angeles, February 3rd, 2003.

*Neural substrates of personality traits.* International Symposium on Networks and Behavior, **National Centre for Biological Sciences, Bangalore, India**. January 3-6, 2003.

*Studies of the biological basis of personality: Integrating multiple brain mapping approaches.* Series in Social and Affective Neuroscience, Department of Psychology, **Harvard University**, Dec 13, 2002.

*Studies of the biological basis of personality: Integrating multiple brain mapping approaches.* Department of Psychology, **Tufts University**, Dec 12, 2002.

*Functional brain imaging of personality: Traits as emerging properties.* Institute of Cognitive Neuroscience and Social Genetic and Developmental Psychiatry Research Center, **Institute of Psychiatry, London, England**. July 3<sup>rd</sup> and 4<sup>th</sup>, 2001.

*Brain and the law: Current work in neuroimaging.* Conference on Evolutionary Biology, Economics and Law, organized by the **Gruter Institute for Law and Behavioral Research**. Squaw Valley, June 1, 2001.

*Seeking signal in the noise: What individual differences can teach us about fundamental mechanisms of emotion.* First International Conference on Social Cognitive Neuroscience. **UCLA**, April 26-28, 2001.

*fMRI Studies in emotion: The role of individual differences in experience and personality.* **University of California, Berkeley**. Institute of Personality and Social Research Fall 2000 Colloquium Series. November 15, 2000.

*Neural correlates of emotion.* Personality Seminar Series. **Stanford University**. April 15, 1999.

*At the intersection of affect and personality: First imaging data.* **Medical Research Council, Applied Psychology, Cambridge, England**. May 20, 1998.

### Coverage of Research (selected items)

#### Textbooks

Fundamentals of Human Neuropsychology (2003, 5<sup>th</sup> edition, p. 524). Bryan Kolb and Ian Q. Wilshaw. Worth Publishers, New York.

Psychology (3<sup>rd</sup> edition). Don Hockenbury and Sandra Hockenbury (Eds.). Worth Publishers/W.H. Freeman & Company.

Biological Psychology (2002, 3<sup>rd</sup> edition, Figure 15.12). Rosenzweig, Breedlove, and Leiman (Eds.).

Psychology: The brain, the person, the world (2<sup>nd</sup> edition). Stephen Michael Kosslyn and Robin S. Rosenberg (Eds.). Book News, Portland, OR.

Psychological Science, web-based compendium to the textbook (2003). Michael S. Gazzaniga and Todd F. Hetherington. WW Norton, New York.

### **Print**

APA Monitor. February 2001, pp. 66-68. Time Magazine, January 20, 2003.

*Science*, 306, 24 December 2004, p. 2164: “Editor’s Choice: Highlights from the recent literature”.

*Science*, 307, 11 March 2005, p. 1548: “Brain scans raise privacy concerns” (an article about neuroethics).

Press Services: Associated Press, United Press International, German and French Press Agencies.

Selected Newspapers: New York Times, Boston Globe, Los Angeles Times, Chicago Tribune, Toronto Star, Philadelphia Inquirer, Wall Street Journal, Sabah (Turkey), Hurriyet (Turkey), Apoteken Umschau (Germany)

Weekly Magazines: Newsweek (U.S. edition 2/21/2005; international edition 1/17/2005; Korean edition March 2005)

### **Radio**

- Selected Radio Stations: National Public Radio, ABC News Radio with Sam Donaldson, Voice of America, VOA Turkey, BBC, Public Radio South Africa, local stations across the U.S., Canada, Ireland.
- NPR broadcast of “The Infinite Mind: Neuroethics”. Program broadcasted September 7<sup>th</sup>, 2003. Archived file available at [www.theinfinitemind.com](http://www.theinfinitemind.com).

### **Television**

- Television: newscasts on CNN, MSNBC, various local stations.
- Canadian Broadcasting Company. As part of a 5-part 5-hour series on “War of the Sexes”, my work was extensively featured in a one-hour program and was aired in February 2004 in French on Radio-Canada (the National French-Canadian TV station) and September 2005 on CBC in English.
- Swedish National Education Broadcasting Company. As part of a 4 part TV series on “Frontiers of the Brain”, my work was extensively featured in a program on “The Extroverted”. The program was shown in Sweden in the Spring of 2005 to an audience of several hundred thousand Swedish viewers and is now part of the education program in neuropsychology at the University of Uppsala.

<b>Publications and Presentations</b>
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### **Books**

Canli, T. (Ed.) (under contract, est. pub. date 2011). *The Oxford Handbook of Molecular Psychology*. Oxford, New York: Oxford University Press.

Canli, T. (Ed.) (2006). *The Biological Basis of Personality and Individual Differences*. New York: Guilford Press.

### **Book Chapters**

- Duman, E.A. and Canli, T. (in press). Genetic studies of personality. In Koob, G., Thompson, R.F., and Le Moal, M. (Eds.), *Encyclopedia of Behavioral Neuroscience*, Elsevier.
- Duman, E.A. and Canli, T. (2010). Social behavior and serotonin, pp. 449-56. In Müller, C.P. and Jacobs, B. (Eds.), *Handbook of Behavioral Neurobiology of Serotonin*, Series: Handbook in Behavioral Neuroscience (Ed. J.P. Huston), Elsevier.
- Canli, T. (2009). Genetic transmission of depression, pp. 290-91. In R. Ingram (Ed.), *International Encyclopedia of Depression*. Springer Publications, New York, NY.
- Canli, T. (2009). Neuroimaging of emotion and personality, 305-22. In G. Matthews and P. Corr (Eds.), *Cambridge Handbook of Psychology*. Cambridge University Press.
- Canli, T. (2009). Genetics of affect, pp. 192-5. In K. Scherer and D. Sander (Eds.), *The Oxford Companion to Emotion and the Affective Sciences*. Oxford and New York: Oxford University Press.
- Canli, T. (2009). Individual differences in human amygdala function, pp.250-64. In P. Whalen and E. Phelps (Eds.), *The Human Amygdala*. Guilford Press.
- Canli, T. (2009). Genetic Transmission of Depression. In R. Ingram (Ed.), *The International Encyclopedia of Depression*, Springer Publishing Company.
- Canli, T. (2009). Genomic imaging, pp. 295-312. In E. Harmon-Jones and J Beer (Eds.), *Methods in the Neurobiology of Social and Personality Psychology*. New York: Guilford Publications.
- Congdon, E. and Canli, T. (2008). Genomic imaging of personality: Towards a molecular neurobiology of impulsivity, pp. 334-351. In G. J. Boyle, G. Matthews, D. H. Saklowske (Eds.), *The Sage Handbook of Personality Theory and Assessment, Vol. 2: Personality Measurement and Testing*. Thousand Oaks, CA: Sage Publications.
- Canli, T. (2008). Toward a “Molecular Psychology” of personality, pp. 311-327. In O. John, R.W. Robbins, L.A. Pervin (Eds.), *Handbook of Personality: Theory and Research*. New York: Guilford Press.
- Lesch, K.-P. and Canli, T. (2006). 5-HT1A receptor and anxiety-related traits: Pharmacology, genetics, and imaging, pp. 273-294. In T. Canli (Ed.), *Biology of Personality and Individual Differences*. New York: Guilford Press.
- Canli, T. (2006). Genomic imaging of extraversion, pp. 93-115. In T. Canli (Ed.), *Biology of Personality and Individual Differences*. New York: Guilford Press.
- Canli, T (2005). When genes and brains unite: Ethical implications of genomic neuroimaging, pp. 169-184. In J. Illes (Ed.), *Neuroethics: Defining the Issues in Research, Practice and Policy*. New York: Oxford University Press.

**Manuscripts under review**

Montag, C., Markett, S., Basten, U., Stelzel, C., Fiebach, F., Canli, T., and Reuter, M. (submitted). Epistasis of the DRD2/ANKK1 Taq Ia and the BDNF Val66Met polymorphism impacts Novelty Seeking and Harm Avoidance.

Dougherty, L.R., Klein, D.N., Congdon, E., Olino, T.M., Dyson, M., , Rose, S. and Canli, T. (submitted). Increased Waking Salivary Cortisol Levels and Depression Risk in Preschoolers: The Role of Maternal History of Melancholic Depression, Early Child Temperament and 5-HTTLPR.

Congdon, E., Constable, R.T., and Canli, T. (submitted). Behavioral and Neural Correlates of Impulsivity: Beware of Selection Bias and Measurement Choice.

### **Popular Articles**

Canli, T. (2008). The character code. *Scientific American Mind*, 52-57, February/March 2008.

Canli, T. (2007). Der Charakter Code. *Gehirn & Geist*, 9, 52-57.

### **Peer-reviewed Journal Publications (Reviews)**

Rossi, S., Hallett, M., Rossini, P.M., Pascual-Leone, A. and the Safety of TMS Consensus Group (T. Canli et al.), (2009). Safety, Ethical Considerations, and Application Guidelines for the Use of Transcranial Magnetic Stimulation in Clinical Practice and Research. A Consensus Statement from the International Workshop on "Present and Future of TMS: Safety and Ethical Guidelines", Siena, March 7-9, 2008. *Clinical Neurophysiology*, 120 (12), 2008-2039.

Canli, T., Ferrie, J., and Duman, E.A., (2009). Genetics of emotion regulation. Special Issue: Neurogenetics as applied to systems and cognitive neuroscience *Neuroscience*, 164, 43-54.

Congdon, E. and Canli, T. (2008). A neurogenetic approach to impulsivity. *Journal of Personality Special Edition: New Directions in an Individual Differences Approach to Personality*, 76 (6): 1447-83.

Canli, T. (2008). Toward a neurogenetic theory of neuroticism. *Annals of the New York Academy of Science*, 1129, 153-74.

Haas, B. W., Canli, T. (2008). Emotional memory function, personality structure and psychopathology: A neural system approach to the identification of vulnerability markers. *Brain Research Reviews*, 58 (1), 71-84.

Canli, T. and Lesch, K.P. (2007). Long story short: serotonin transporter in emotion regulation and social cognition. *Nature Neuroscience*, 10, 1103-1109.

Canli, T. (2007). Genomic psychology: An emerging paradigm. *Special Edition on Science and Society*, EMBO Reports, 8 (S1), S30-S34.

Congdon, E., and Canli, T. (2005). The endophenotype of impulsivity: Reaching consilience through behavioral, genetic and neuroimaging approaches. *Behavioral and Cognitive Neuroscience Reviews*, 4 (4), 262-281.

Amin, Z., Canli, T., and Epperson, C.N. (2005). Effect of Estrogen-Serotonin Interactions on Mood and Cognition. *Behavioral and Cognitive Neuroscience Reviews*, 4 (1), 43-58.

Canli, T. (2004). Functional brain mapping of extraversion and neuroticism: Learning from individual differences in emotion processing. *Journal of Personality*, 72, 1105-32.

Canli, T. (2004). Emotional Cognition: From brain to behavior. *Contemporary Psychology: The APA Review of Books*, 49, 609-611.

Canli, T. and Gabrieli, J.D.E. (2004). News and Views: Imaging gender differences in sexual arousal. *Nature Neuroscience*, 7, 325-326.

Hamann, S. and Canli, T. (2004). Individual differences in emotion processing. *Current Opinion in Neurobiology*, 14, 233-238.

Canli, T., and Amin, Z. (2002). Neuroimaging of emotion and personality: Scientific evidence and ethical considerations. *Brain and Cognition*, 50, 414-431.

Canli, T. (1999). Hemispheric asymmetry in the experience of emotion: A perspective from functional imaging. *The Neuroscientist*, 5, 201-207.

### **Peer-reviewed Journal Publications (Empirical Articles)**

Dougherty, L.R., Klein, D.N., Congdon, E., and Canli, T. (2010). Interaction between 5-HTTLPR and BDNF Val66Met Polymorphisms on HPA-Axis Reactivity in Preschoolers: Elucidating the Genetic Vulnerability to Stress in Risk for Depression. *Biological Psychology*, 83, 93-100. PMID 19914329.

Congdon, E., Constable, R.T., Lesch, K.P., & Canli, T. (2009). Influence of SLC6A3 and COMT on neural activation during response inhibition. *Biological Psychology*, 81, 144-52.

Herrmann, M.J., Würflein, H., Schreppe, T., Koehler, S., Mühlberger, A., Reif, A., Canli, T., Romanos, M., Jacob, C.P., Lesch, K.P., Fallgatter, A.J. (2009). Catechol-O-methyltransferase val158met genotype affects neural correlates of aversive stimuli processing. *Cognitive, Affective, and Behavioral Neuroscience*, 9, 168-72.

Goldin, P.R., Manber, T., Hakimi, S., Canli, T., and Gross, J.J. (2009). Neural Bases of Social Anxiety Disorder: Emotional Reactivity and Cognitive Regulation during Social and Physical Threat. *Archives of General Psychiatry*, 66 (2), 170-80.

Haas, B.W., Constable, R.T., Canli, T. (2009). Functional Magnetic Resonance Imaging of Temporally Distinct Responses to Emotional Facial Expressions. *Social Neuroscience*, 4, 121-34.

Haas, B.W., Constable, R.T., Canli, T. (2008). Stop the sadness: Neuroticism is associated with sustained medial prefrontal cortex response to emotional facial expressions. *Neuroimage*, 42 (1), 385-92.

Canli, T., Congdon, E., Constable, R.T., Lesch, K.P. (2008). Additive effects of serotonin transporter and tryptophan hydroxylase-2 gene variation on neural correlates of affective processing. *Biological Psychology*. 79, 118-25.

Canli, T., Brandon, S., Casebeer, W., Crowley, P.J., DuRousseau, D., Greely, H.T., Pascual-Leone, A. (2007). Neuroethics and national security. *American Journal of Bioethics: Neuroscience*, 7, 3-13.

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Haas, B.W., Omura, K., Constable, R.T., Canli, T. (2007). Emotional conflict and neuroticism: Personality dependent activation in the amygdala and subgenual anterior cingulate. *Behavioral Neuroscience*, 121, 249-56.

Haas, B. W., Omura, K., Constable, R.T., Canli, T. (2007). Is automatic emotion regulation associated with agreeableness?" A perspective using a social neuroscience approach. *Psychological Science*, 18 (2), 130-132.

Canli, T., Qiu, M., Omura, K, Congdon, E., Herrman, M.J., Constable, R.T., Lesch, K.P. (2006). Neural correlates of epigenesis. *Proceedings of the National Academy of Sciences, U.S.A.*. 103 (43), 16033-8.\*

See also "Research Highlights: Depression gene in action" *Nature Reviews Neuroscience*, 7, November 2006, p. 835.

Herrmann, M.J., Huter, T., Müller, F., Mühlberger, A., Pauli, P., Reif, A., Canli, T., Fallgatter, A., Lesch, K.P. (2006). Additive effects of serotonin transporter and tryptophan hydroxylase-2 gene variation on emotional processing. *Cerebral Cortex*. June 26, 2006, Epub ahead of print. Print reference: 2007, 17: 1160-63.

Amin, Z., Epperson, N.C., Constable, R.T., Canli, T. (2006). Effects of estrogen variation on neural correlates of emotional response inhibition. *Neuroimage*, 32, 457-464.

Haas, B. W., Omura, K., Amin, Z., Constable, R.T., Canli, T. (2006). Functional connectivity with the anterior cingulate is associated with extraversion during the emotional stroop task. *Social Neuroscience*, 1, 16-24.

Haas, B.W., Omura, K., Constable, R.T., Canli, T. (2006). Interference produced by emotional conflict associated with anterior cingulate activation. *Cognitive, Affective & Behavioral Neuroscience*, 6, 152-156.

- Canli, T., Congdon, E., Gutknecht, L., Constable, R.T., Lesch, K.P. (2005). Amygdala responsiveness is modulated by Tryptophan Hydroxylase-2 gene variation. *Journal of Neural Transmission*, 112, 1479-1485.
- Omura, K., Constable, R.T., and Canli, T. (2005). Amygdala gray matter concentration is associated with extraversion and neuroticism *Neuroreport*, 16 (17), 1905-8.
- Gotlib, I.H., Sivers, H., Gabrieli, J.D.E., Whitfield-Gabrieli, S., Goldin, P., Minor, K.L., Canli, T. (2005). Subgenual anterior cingulate activation to valenced emotional stimuli in major depression. *Neuroreport*. 16 (16), 1731-4.
- Canli, T., Omura, K, Haas, B., Fallgatter, A., Constable, R.T., Lesch, K.P. (2005). Beyond affect: A role for genetic variation of the serotonin transporter in neural activation during a cognitive attention task. *Proceedings of the National Academy of Sciences, U.S.A.* 102 (34), 12224-9.
- Canli, T., Cooney, R.E., Goldin, P., Shah, M., Sivers, H., Thomason, M.E., Whitfield-Gabrieli, S., Gabrieli, J.D.E., Gotlib, I.H. (2005). Amygdala reactivity to emotional faces predicts improvement in major depression. *Neuroreport*, 16 (12), 1267-70.
- Omura, K., Aron, A.P., and Canli T. (2005). Variance maps as a novel tool for localizing regions of interest in imaging studies of individual differences. *Cognitive, Affective & Behavioral Neuroscience*, 5 (2), 262-271.
- Canli, T., Sivers, H., Thomason, M.E., Whitfield, S., Gabrieli, J.D.E., and Gotlib I.H. (2004). An fMRI study of lexical processing of emotional words in depressed versus healthy subjects. *Neuroreport*, 15, 2585-8.
- Canli, T., Amin, Z., Haas, B., Omura, K., Constable, R.T. (2004). A double-dissociation between mood states and personality traits in the anterior cingulate. *Behavioral Neuroscience*, 118, 897-904.\*
- \*See also commentary by Hamann, S., and Harenski, C.L. (2004). Exploring the brain's interface between personality, mood, and emotion: Theoretical comment on Canli et al. (2004). *Behavioral Neuroscience*, 118, 1134-6.
- See also "Editor's Choice: Highlights from the recent literature" *Science*, 306, 24 December 2004, p. 2164.
- Mather, M., Canli, T., Whitfield, S.L., English, T., Gabrieli, J.D.E., and Carstensen. L. A. (2004). A double-dissociation in amygdala activation to valenced stimuli in older and younger subjects. *Psychological Science*, 15, 259-263.
- Amin, Z., Constable, R.T., Canli, T. (2004). Attentional bias for valenced stimuli as a function of personality in the dot-probe task. *Journal of Research in Personality*, 38, 15-23.
- Canli, T., Zhao, Z., Desmond, J.E., Kang, E., Gross, J., and Gabrieli, J.D.E. (2001). An fMRI study of personality influences on brain reactivity to emotional stimuli. *Behavioral Neuroscience*, 115, 33-42.

Canli, T., Zhao, Z., Brewer, J., Gabrieli, J.D.E., and Cahill, L. (2000). Activation in the human amygdala associates event-related arousal with later memory for individual emotional experience. *The Journal of Neuroscience*, *20*, RC99 (1-5).

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Lam, Y.-W., Wong, A., Canli, T., and Brown, T.H. (1996). Fear-conditioned facilitation of the rat's eyeblink reflex. *Neurobiology of Learning and Memory*, *66*, 212-220.

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### **Conferences and Abstracts**

Dougherty, L. R., Klein, D. N., Cogndon, E., Olino, T. M., Dyson, M., Rose, S., & Canli (2009). Increased waking salivary cortisol and depression risk in preschoolers. International Society for Research on Child and Adolescent Psychopathology (ISRCAP), June 2009, Seattle, Washington.

Omura, K., Amin, Z., Epperson, C.N., Constable, R.T., and Canli, T. (2007). Estrogen enhanced the left midfusiform gyrus – amygdala connectivity associated with arousal to emotional negative words. Annual Meeting of the Society for Neuroscience, San Diego, November, 3-7, 2007.

Cogndon, E., Sisante, J.F., Lesch, K.P., Canli, T. (2007). Monoamine Oxidase A Gene Promoter Variation and Negative Life Events Interact to Influence Aggression, not Impulsivity, in Healthy Adults. Annual Meeting of the Society for Neuroscience, San Diego, November, 3-7, 2007.

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Goldin, P. Canli, T., Gabrieli, J., and Gross, J. (2005) Neural substrates of eye gaze and social evaluative perspective in generalized social anxiety disorder. Anxiety Disorders Association of America, 25<sup>th</sup> Annual Conference, Seattle, WA, March 17-20, 2005.

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