

CURRICULUM VITAE

NAME: Tiffany Love, Ph.D.
TITLE: Visiting Associate Professor, Department of Psychiatry
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BIOGRAPHICAL SKETCH:

Dr. Love's research uses deep phenotyping approaches to identify and understand the environmental, neurobiological, and socio-cultural risk factors that drive psychiatric disease and facilitate recovery. Her work has employed a variety of behavioral, genetic, and neuroimaging techniques to explore the mechanisms that underlie sensitivity to stress, pain, and reward and, ultimately, contribute to the formation of psychiatric illness.

Dr. Love's current interests focus on addressing the translational gap between research and practice. This includes developing methods and implementation strategies that enable providers to collect rich biopsychosocial, health, and digital phenotyping data in collaboration with their patients to drive personalized interventions.

EDUCATION:

School/Program	Degree	Dates
Molecular & Behavioral Neuroscience Institute (Translational Neuroimaging)	Postdoctoral Fellowship	2010 - 2012
University of Michigan (Neuroscience)	Doctor of Philosophy	2004 - 2010
University of New Mexico (Biology/Psychology)	Bachelor of Science	1998 - 2002

ACADEMIC APPOINTMENTS & PROFESSIONAL EXPERIENCE:

Institution	Rank	Dates
University of Colorado Anschutz (Psychiatry)	Visiting Associate Professor	2024 - Present
HealthRhythms, Inc.	Senior Program Manager	2022 - 2023
University of Utah (Psychiatry)	Adjunct Assistant Professor	2022 - Present
University of Utah (Psychiatry)	Assistant Professor	2015 - 2022
University of Michigan (Psychiatry)	Adjunct Research Assistant Professor	2015 - Present
University of Michigan (Psychiatry)	Research Assistant Professor/ Research Investigator	2012 - 2015

HONORS, SPECIAL RECOGNITIONS, AND AWARDS:

2020 Associate Member, American College of Neuropsychopharmacology (ACNP), Brentwood, TN
2017 NARSAD Young Investigator Awardee, Brain & Behavior Research Foundation, New York, NY
2016 Chair's Choice Award, Society for Biological Psychiatry, Jacksonville, FL
2014 Travel Award, American College of Neuropsychopharmacology (ACNP), Phoenix, AZ
2012 Trainee, Career Development Institute (CDI) for Psychiatry, Stanford University, Stanford, CA & University of Pittsburgh, Pittsburgh, PA

- 2011 Scholar, Postdoctoral Translational Scholars Program, University of Michigan, Ann Arbor, MI
- 2006 Awardee, Predoctoral Training Grant (T32) from the University of Michigan Substance Abuse Research Center (UMSARC)
- 2005 Outstanding Graduate Student Instructor (GSI) Teaching Honor Roll, University of Michigan, Ann Arbor, MI
- 2004 Rackham Merit Fellowship, University of Michigan, Ann Arbor, MI

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

- 2020 - Present Associate Member, American College of Neuropsychopharmacology (ACNP)
- 2019 - 2022 Member, Research Society on Alcoholism
- 2018 Member, Society for Neuroscience
- 2015 - 2018 Member, Society for Social Neuroscience
- 2014 - 2022 Member, Society of Biological Psychiatry
- 2008 - 2020 Member, American Association for the Advancement of Science
- 2006 - Present Member, University of Michigan Substance Abuse Research Center
- 2005 - Present Member, Organization for Human Brain Mapping (OHBM)

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES:

Professional Organizations

- 2022 - Present Member, American College of Neuropsychopharmacology, Education and Training Committee
- 2021 - Present Member, American College of Neuropsychopharmacology, Diversity and Inclusion Committee
- 2021 Discussion Moderator, Organization for Human Brain Mapping, Moderator for 27th Annual Organization for Human Brain Mapping Meeting: Physiology, Metabolism and Neurotransmission Session
- 2020 - 2021 Member, American College of Neuropsychopharmacology, Diversity and Inclusion Task Force
- 2019 - 2023 Committee Member, Organization for Human Brain Mapping, Education Committee
- 2019 - 2021 Member, Society of Biological Psychiatry, Travel Award Committee Member
- 2017 Mentor, Organization for Human Brain Mapping, OHBM Mentoring Program
- 2016 Mentor, Society of Biological Psychiatry, SOBP Mentor / Mentee Program
- 2016 Ad Hoc Task Force Member, American College of Neuropsychopharmacology, Education and Training Committee
- 2015 Committee Member, Society for Social Neuroscience, (S4SN) Early Career Awards Committee

University Service

College Level

- 2021 - 2022 Member, School of Medicine Executive Cabinet, MedEdMorphosis: Ensuring Use of Best Evidence Advisory Team
- 2021 - 2022 Student Advisor, First Year Students, Neuroscience Program
- 2019 Member, School of Medicine, LCME Reaccreditation Sub-Committee
- 2018 - 2022 Member, School of Medicine, Education Technology Sub-Committee

- 2017 - 2018 Evaluator, School of Medicine Admissions Committee, Multiple Mini Interview (MMI) Committee
- 2017 - 2022 Member, School of Medicine, Curriculum Evaluation Sub-Committee

Department Level

- 2021 Committee Member, Psychiatry, Space Committee
- 2017 - 2019 Committee Member, Psychiatry, Addictions Update Conference Planning Committee
- 2016 - 2022 Committee Member, Psychiatry, Grand Rounds Committee
- 2016 Organizing Committee Member, Psychiatry, Psychiatry Clinical and Cognitive Measures Workgroup
- 2015 - 2022 Advisory Committee Member, Psychiatry, Department Advisory Committee
- 2011 - 2015 Member, University of Michigan Substance Abuse Research Center, Ann Arbor, MI.

Symposium/Workshop Chair

- 2018 Chair, What's Love Got to Do with It? Oxytocin Treatment for Stress and Addiction, Winter Conference on Brain Research (WCBR), Snowmass, CO
- 2012 Chair, Two Day Seminar on the Processing of Neuroimaging Data, University of Michigan, Molecular & Behavioral Neuroscience Institute, Ann Arbor, MI

Community Outreach

- 2018 Poster Judge, Undergraduate Research Opportunities Program, Undergraduate Research Symposium (URS), University of Utah, Salt Lake City, UT
- 2017 - 2021 Judge, Center for Medical Innovation, Bench-2-Bedside Competition, Salt Lake City, UT
- 2016 Oxytocin and Social Behavior: A New Treatment Option for Substance Dependence? Summit County Mental Health Awareness Campaign, Park City, UT
- 2015 Demonstration Leader, University of Michigan, Brains Rule! Neuroscience Exposition for Middle School Students
- 2013 Presenter, Nerd Nite Ann Arbor, Cupid wasn't aiming for your heart: the neuroscience of love, Ann Arbor, MI
- 2013 Presenter, Neurobiology of Addiction, Psychiatry Medical Student Interest Group (PsychSIGN), University of Michigan, Ann Arbor, MI
- 2009 Volunteer, Neuroscience Program Recruitment, University of Michigan, Ann Arbor, MI.
- 2008 - 2012 Volunteer, M-Heal/World Medical Relief, Detroit, MI
- 2006 Demonstration Leader, University of Michigan, Neuroscience Program Outreach for Elementary School Students, Ann Arbor, MI

REGULATORY SUBMISSIONS:

- 2012 - Present Investigational New Drug Application Held: FDA-IND-115812, Intranasal Oxytocin

REVIEW AND REFEREE WORK:

Ad-Hoc Manuscript Review

- 2020 - Present Journal of Substance Use and Addiction Treatment
- 2018 - Present JAMA Psychiatry
- 2017 - Present Brain Imaging and Behavior

2017 - Present Psychiatry Research: Neuroimaging
2016 - Present Addiction
2016 - Present Psychological Medicine
2016 - Present Neuropsychopharmacology
2014 - Present Journal of Psychiatry and Neuroscience
2013 - Present Biological Psychiatry
2013 - Present Psychoneuroendocrinology
2013 - Present Schizophrenia Bulletin

Grant Review Committee/Study Section

2022 Grant Reviewer, European Science Foundation, Strasbourg, France
2017 Grant Reviewer, Wellcome Trust, London England, United Kingdom
2017 - 2018 Grant Reviewer, Research Incentive Seed Grant Program, Salt Lake City, Utah
2016 Grant Reviewer, KCALSI Patton Trust Research Grant Program, Kansas City, MO
2014 Grant Reviewer, Biotechnology and Biological Sciences Research Council (BBSRC), Swindon, England, United Kingdom

INVITED LECTURES, PRESENTATIONS, AND VISITING PROFESSORSHIPS:

Invited/Visiting Professor Presentations

2022 Love T. Social Reward and the Impact of Oxytocin, IKPP, Technische Universitat Dresden, Germany.
2022 Love T. Smartphone-Based Intervention for Sleep Disturbance in Individuals Recovering from Alcohol Use Disorder, PARCKA, Salt Lake City, Utah.
2021 Love T. Neurobiology of Addiction for Primary Care Physicians, AIDS Education and Training Center, Salt Lake City, Utah.
2013 Love T. Deciphering the role of oxytocin in social motivation. Cognitive Neuroscience Series, University of Illinois at Chicago, Chicago, IL
2012 Love T, Heisel E. Neuroimaging Studies in Pain in Borderline Personality Disorder. Center for Forensic Psychiatry, Ann Arbor, MI

Grand Rounds Presentations

2022 Love T. Supporting Personalized Medicine in Psychiatry Through Mobile Technologies. University of Utah, Salt Lake City, UT
2016 Love T. This is (really) your brain on drugs. University of Utah Community Clinics, Salt Lake City, UT
2015 Love, T. Translating from Basic Circuitries to Psychopathology: Studies in Attachment, Motivation, and Addiction. University of Utah, Salt Lake City, UT

Campus & Departmental Talks

2018 Love T. Unlocking the Secrets of Addiction Through Neuroscience, 70th Department of Psychiatry Anniversary Celebration, University of Utah, Salt Lake City, UT
2018 Love T. Mentorship: Giving and Receiving, Department of Psychiatry Research Faculty Retreat, University of Utah, Salt Lake City, UT
2016 Love T. The Microbiome in Addiction. Addiction Neuroscience Series, Department of Psychiatry, University of Utah, Salt Lake City, UT

- 2016 Love T. Impact of Social Support on Psychiatric Distress. Addiction Neuroscience Series, Department of Psychiatry, University of Utah, Salt Lake City, UT
- 2016 Love T. Basics of MRI, fMRI and PET: Application to Addiction. Addiction Neuroscience Series, Department of Psychiatry, University of Utah, Salt Lake City, UT
- 2016 Love T. Neurobiology of Addiction: Opioid System. Addiction Neuroscience Series, Department of Psychiatry, University of Utah, Salt Lake City, UT
- 2012 Love T. Neuroscience of Free Will, Annual Neuroscience Retreat, University of Michigan, Ann Arbor, MI
- 2009 Love T. The Neurochemical Correlates of Risky Personality, Neuroscience Seminar Series, University of Michigan, Ann Arbor, MI
- 2007 Love T. Stress, Sex and Dopamine Neurotransmission, Annual Neuroscience Retreat, University of Michigan, Ann Arbor, MI
- 2007 Love T. Scanning Susceptibility: The Link between Stress, Risky Personality and Neurotransmission, University of Michigan Substance Abuse Research Center, Ann Arbor, MI
- 2006 Love T. Oh so that's what that does: Introduction to Functional Neuroanatomy, University of Michigan Substance Abuse Research Center, Ann Arbor, MI
- 2006 Love T. Risky Personality and mu-Opioid Neurotransmission: a Link, Annual Neuroscience Retreat, University of Michigan, Ann Arbor, MI

TEACHING RECORD:

Courses Directed

Undergraduate

- **Praxis: Addictions (4.5 credit hours)**
Honors College, University of Utah
(Fall 2018, Spring 2019)
- **Psychology Field Experience: Neuroimaging & Behavioral Testing in Clinical Research (3 credit hours)**
Department of Psychology, University of Utah
(Spring 2017)
- **Neuroscience Field Experience: Fundamentals of fMRI (3 credit hours)**
College of Social & Behavioral Science, University of Utah
(Fall 2016, Spring 2017, Fall 2018, Spring 2018, Spring 2019, Fall 2019, Spring 2020)
- **Chemistry Field Experience: Pharmaco-fMRI (3 credit hours)**
Department of Chemistry, University of Utah
(Fall 2017)
- **Cognitive Psychology (3 credit hours)**
Department of Psychology, Graduate Student Instructor, University of Michigan
(Fall 2005)

Graduate

- **Neuroscience Field Experience, Topic: Fundamentals of Positron Emission Tomography (3 credit hours)**
College of Social Work, University of Utah
(Fall 2017, Spring 2018, Fall 2018)

Clinical Teaching

- **National Didactics Session: Sedative Use Disorder. Addiction Medicine Fellows and Faculty.**
American College of Academic Addiction Medicine (ACAAM)
(Fall 2021, Fall 2023)
- **Neuropharmacology of Addiction. Addiction Medicine & Psychiatry Fellows.**
Department of Psychiatry, University of Utah
(Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
- **Neuroscience Case Conference. PGY2/PGY3/PGY4 Residents.**
Department of Psychiatry, University of Utah
(Spring/Fall 2016, Spring/Fall 2017, Spring/Fall 2018, Spring/Fall 2019, Spring/Fall 2020, Fall 2021)
- **Brain and Behavior - Psychiatry: Substances of Abuse. Medical Students (MS2).**
School of Medicine, University of Utah
(Spring 2017, Spring 2018, Spring 2019)
- **Neurobiology of Addiction. Project ECHO (Extension for Community Healthcare Outcomes). CE Course**
Department of Psychiatry, University of Utah.
(Fall 2018)

Invited Course Lecturer

- **Substance Use Disorders Practice I: Evidence-based Principles and Therapeutic Alliance.**
College of Social Work, University of Utah
(Spring 2019, Spring 2020)
- **Neurobiology for Practice.**
College of Social Work, University of Utah
(Spring 2020)
- **Alcohol and Other Behavior Disorders in Community Settings.**
Department of Psychiatry, University of Michigan
(Spring 2015)
- **Sex Differences in Brain, Behavior and Disease.**
Department of Psychology, University of Michigan
(Summer 2014, Summer 2015)
- **Neuropharmacology: Opioids.**
Neuroscience Graduate Program, University of Michigan
(Spring 2014)
- **Neural Basis of Orofacial Pain and Function.**
School of Dentistry, University of Michigan
(Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014)

Graduate Student Committees

2021 - 2022 Chair, Maci Jacobson, University of Utah, Utah, Neuroscience Program
2019 - 2020 Member, Anne Baker, University of Utah, Utah, College of Social Work

2017 - 2019 Member, Ashley Yttredahl, Stony Brook University, New York, Department of Psychology

Trainee Supervision

Faculty

2017 - Present Javier Ballester-Gonzales, University of Utah

Graduate

2021 - Present Maci Jacobson, University of Utah

2020 - Present Matthew Thurston, University of Utah

2017 - 2020 Anne Baker, University of Utah

2015 Navya Varshney (Pharmacy)*, University of Michigan

2013 Helen Zhang (MS2)*, University of Michigan

2010 - 2011 Hamdan Azhar (Masters), University of Michigan

2010 - 2011 JJ Ubowan Saeung (Dental School Student), University of Michigan

Undergraduate

2021 - 2022 Charlie Dean, University of Utah

2021 - 2022 Jack Landmesser, University of Utah

2021 - 2022 Raleigh Sorbonne, University of Utah

2020 - 2021 Tanner Goodman, University of Utah

2020 - 2021 Zo Kronberg, University of Utah

2020 Morgan Rohner, University of Utah

2019 Valerie Yukhimova, University of Utah

2017 - 2020 Lauren Cardon*, University of Utah

2017 - 2018 Marisa Asadian, University of Utah

2017 - 2020 Sophie McQuinn*, University of Utah

2017 Brayden Jensen, University of Utah

2017 - 2018 Gus Erickson*, University of Utah

2017 Hannah Samowitz, University of Utah

2016 - 2017 Melissa Price, University of Utah

2016 - 2017 Allison Astill, University of Utah

2016 - 2017 Katleen Nieto, University of Utah

2014 - 2015 Curtis Heisel, University of Michigan

2012 Philippe de Juniac, University of Michigan

2011 - 2015 Chelsea Cummiford, University of Michigan

2011 - 2012 Jonathan Alverio, University of Michigan

2010 - 2013 Erica Heisel, University of Michigan

2009 - 2010 Kristen Schohl, University of Michigan

High School

2015 Caleb Weissman

2011 Matthew Fligel

2011 Jeffrey Xu

* Received Funding For Their Research

GRANT SUPPORT:

R44 MH113520 (Frank) 08/15/20 – 07/31/23 \$974,672
NIH/NIMH

Automating and Obtaining FDA Approval for a Digital Intervention for Depression

Summary: This SBIR Phase IIB project was focused on bringing the digital platform Cue to market as a scientifically validated digital intervention for individuals with depression. Cue automatically and continuously senses parameters of behavior and delivers behavioral change suggestions at optimal times to speed patient recovery and prevent relapse.

Role: Co-Investigator

One U for Utah Initiative (Love) 05/30/20 – 05/29/22 \$30,000
University of Utah

Neural Mechanisms and Predictors of Treatment Response in Opioid Misuse

Summary: This project examined the neurobiological mechanisms which support and predict successful treatment from co-occurring opioid misuse and chronic pain following an innovative behavioral intervention, Mindfulness-Oriented Recovery Enhancement (MORE).

Role: Principal Investigator

One U for Utah Initiative (Garland) 05/30/20 – 05/29/22 \$30,000
University of Utah

Optimizing Mindfulness-Based Treatment of Opioid Misuse with Neurofeedback

Summary: This project proposed to utilize functional near infrared spectroscopy (fNIRS) neurofeedback to remediate hedonic deficits noted within persons with co-occurring opioid misuse and chronic pain.

Role: Co-Investigator

Margolis Foundation Award (Love) 12/01/19 – 11/30/21 \$80,000
Ben B. and Iris M. Margolis Foundation

Neuroimaging Predictors of Risk for Future Opioid Misuse

Summary: This project examined the behavioral and neural predictors of opioid misuse in order to characterize the neurobehavioral pathways that promote vulnerability and resilience in chronic pain.

Role: Principal Investigator

R44 AA028164 (Frank) 12/01/19 – 05/31/22 \$844,191
NIH/NIAAA

Smartphone-Based Intervention for Sleep Disturbance in Individuals Recovering from Alcohol Use Disorder

Summary: This Phase II SBIR study tested the efficacy of a mobile app, CueToSleep, to reduce the risk of relapse and increase the regularity of sleep/wake, rest/activity and other behavioral rhythms in persons diagnosed with Alcohol Use Disorder.

Role: Site-Principal Investigator

K01 AA024167 (Love) 07/01/15 – 06/30/21 \$605,969
NIH/NIAAA

Defining and manipulating social neural systems in alcohol use disorder

Summary: This proposal sought to characterize the neural mechanisms responsible for the processing of socially-relevant information in individuals with alcohol use disorder.

Role: Principal Investigator

NARSAD Young Investigator Award (Love) 01/15/18 – 01/14/20 \$70,000
Brain & Behavior Research Foundation

Sex Hormones, Social Motivation, and the Impact of Alcohol

Summary: This proposal focused on exploring how social information processing may change over the course of the menstrual cycle and the role alcohol use may play in determining responses to salient stimuli.
Role: Principal Investigator

Host Microbiome Initiative (Love/Bohnert) 06/01/15 – 05/31/17 \$8,623
University of Michigan

Investigating the Gut Microbiome in Opioid Dependence

Summary: This project proposed to collect and examine microbiome samples from persons diagnosed with opioid use disorder.

Role: Principal Investigator

R21/R33 DA020677 (Zubieta, Greenwald, Peltier) 01/01/14 – 07/01/15 \$384,158
NIH / NIDA

Development and Use of rtfMRI for Self-Control of Nicotine Craving

Summary: This project examined the use of real time functional MRI biofeedback as a treatment option for substance use disorders.

Role: Co-Investigator

UL1RR024986 (Love) 07/01/11 – 07/01/13 \$99,986
NIH / NCRR

Deciphering the role of oxytocin in motivation: an fMRI Study

Summary: This study utilized a unique neuroimaging approach (pharmacological fMRI) to examine how the neuropeptide oxytocin shapes activity within the neural circuits responsible for the processing of motivationally relevant stimuli.

Role: Post-Doctoral Scholar

R01 DA027494 (Zubieta) 09/30/09 – 02/28/15 \$345,985
NIH / NIDA

Interaction of Smoking and Chronic Pain in Neurochemical and Phenotypic Levels

Summary: These studies examined the effect of nicotine dependence, persistent low back pain and their interaction on brain neurotransmitters systems that are involved in both the reinforcing effects of nicotine and pain.

Role: Co-Investigator

T32 DA007267 (Clauw) 07/31/06 – 07/31/08 \$41,544
NIH / NIDA

Neurobiology of Vulnerability for Substance Abuse in Clinical Pain Patients

Summary: These studies sought to utilize functional measures of neural activity to study vulnerability factors associated with an increased risk to use and abuse drugs of abuse in control and chronic pain populations.

Role: Doctoral Fellow

BIBLIOGRAPHY:

Peer-Reviewed Journal Articles

Complete list in PubMed: <https://www.ncbi.nlm.nih.gov/myncbi/tiffany.love.1/bibliography/public/>

1. Griffin BJ, Coyle PT, Weber MC, Benight CC, Morison M, Maguen S, Pyne J, Duncan MS, Brady RE, Wright H, **Love T**, Langenecker SA, Smith AJ (2024). The Impact of Adjustment on Workplace Attitudes and Behaviors among Healthcare Workers during the COVID-19 Pandemic. *J Occup Environ Med*, 66(5):e153-e159.

2. **Love TM**, Shabalin A, Kember R, Docherty A, Zhao H, Gelernter J, Baker A, Dubroff J, Hartwell E, Zubieta JK, Kranzler HR (2022). Unique and Joint Associations of Polygenic Risk for Major Depression and Opioid Use Disorder with Endogenous Opioid System Function. *Neuropsychopharmacology*, 47(10):1784-1790.
3. Baker AK, Ericksen LC, Koppelmans V, Mickey BJ, Martucci KT, Zubieta JK, **Love TM**. Altered Reward Processing and Sex Differences in Chronic Pain. *Front Neurosci*. 2022;16:88984
4. Ballester-Gonzales J, Baker A, Martikainen IK, Koppelmans V, Zubieta JK, **Love TM** (2022). Risk for Opioid Misuse in Chronic Pain Patients is Associated with Endogenous Opioid System Dysregulation. *Translational Psychiatry*, 12(1):20.
5. Smith AJ, Shoji K, Griffin BJ, Sippel LM, Dworkin ER, Wright HM, Morrow E, Locke A, **Love TM**, Langenecker SA, Benight CC (2022). Social Cognitive Resilience Mechanisms Among Healthcare Workers. *Social Psychiatry and Psychiatric Epidemiology*, 26;1-12.
6. Smith AJ, Wright H, Griffin BJ, Ehman AC, Shoji K, **Love TM**, Morrow E, Locke A, Call M, Kerig PK, Olf M, Benight CC, Langenecker SA (2021). Mental Health Risks Differentially Associated with Immunocompromised Status among Healthcare Workers and Family Members at the Pandemic Outset. *Brain Behav Immun*, 15.
7. Langenecker SA, Schreiner MW, Thomas LR, Besette KL, DelDonno SR, Jenkins LM, Easter RE, Stange JP, Pocius SL, Dillahunt A, **Love TM**, Phan KL, Koppelmans V, Paulus M, Lindquist MA, Caffo B, Mickey BJ, Welsh RC (2021). Using network parcels and resting state networks to estimate correlates of mood disorder and related research domain criteria constructs of reward responsiveness and inhibitory control. *Biol Psychiatry Cogn Neurosci Neuroimaging*, 7(1):76-84.
8. Wright HM, Griffin BJ, Shoji K, **Love TM**, Langenecker SA, Benight CC, Smith AJ (2021). Pandemic-related mental health risk among front line personnel. *J Psychiatr Res*, 137, 673-680.
9. Warthen KG, Boyse-Peacor A, Jones KG, Sanford B, **Love TM**, Mickey BJ (2020). Sex differences in the human reward system: convergent behavioral, autonomic and neural evidence. *Soc Cogn Affect Neurosci*, 15(7), 789-801.
10. Hsu DT, Sankar A, Malik MA, Langenecker SA, Mickey BJ, **Love TM** (2020). Common neural responses to romantic rejection and acceptance in healthy adults. *Soc Neurosci*, 15(5), 571-583.
11. Sankar A, Yttredahl AA, Fourcade EW, Mickey BJ, **Love TM**, Langenecker SA, Hsu DT (2019). Dissociable Neural Responses to Monetary and Social Gain and Loss in Women With Major Depressive Disorder. *Front Behav Neurosci*, 13, 149.
12. Langenecker SA, Mickey BJ, Eichhammer P, Sen S, Elverman KH, Kennedy SE, Heitzeg MM, Ribeiro SM, **Love TM**, Hsu DT, Koeppe R, Watson SJ, Akil H, Goldman D, Burmeister M, Zubieta JK (2019). Cognitive Control as a 5-HT1A-based Domain that is Disrupted in Major Depressive Disorder. *Front Psychol*, 10:691.
13. Berent-Spillson A, Kelley AS, Persad CC, **Love T**, Frey KA, Reame NE, Koeppe R, Zubieta JK, Smith YR (2018). Postmenopausal hormone treatment alters neural pathways but does not improve verbal cognitive function. *Menopause*, 25(12), 1424-1431.
14. **Love TM** (2018). The impact of oxytocin on stress: the role of sex. *Curr Opin Behav Sci*, 23, 136-142.
15. Yttredahl AA, McRobert E, Sheler B, Mickey BJ, **Love TM**, Langenecker SA, Zubieta JK, Hsu DT (2018). Abnormal emotional and neural responses to romantic rejection and acceptance in depressed women. *J Affect Disord*, 234, 231-238.
16. **Love TM**, Cranford JA, Burmeister M, Wojnar M, Zucker RA, J Brower K (2018). Oxytocin Genotype Moderates the Impact of Social Support on Psychiatric Distress in Alcohol-Dependent Patients. *Alcohol Alcohol*, 53(1), 57-63.
17. Mickey BJ, Heffernan J, Heisel C, Peciña M, Hsu DT, Zubieta JK, **Love TM** (2016). Oxytocin modulates hemodynamic responses to monetary incentives in humans. *Psychopharmacology (Berl)*, 233(23-24), 3905-3919.

18. Martikainen IK, Nuechterlein EB, Pecina M, **Love TM**, Cummiford CM, Green CR, Stohler CS, Zubieta JK (2015). Chronic Back Pain Is Associated with Alterations in Dopamine Neurotransmission in the Ventral Striatum. *J Neurosci*, 35(27), 9957-65.
19. Pecina M, **Love T**, Stohler CS, Goldman D, Zubieta JK (2015). Effects of the Mu opioid receptor polymorphism (OPRM1 A118G) on pain regulation, placebo effects and associated personality trait measures. *Neuropsychopharmacology*, 40(4), 957-65.
20. Hsu DT, Sanford BJ, Meyers KK, **Love TM**, Hazlett KE, Walker SJ, Mickey BJ, Koeppe RA, Langenecker SA, Zubieta JK (2015). It still hurts: altered endogenous opioid activity in the brain during social rejection and acceptance in major depressive disorder. *Mol Psychiatry*, 20(2), 193-200.
21. Weiland BJ, Heitzeg MM, Zald D, Cummiford C, **Love T**, Zucker RA, Zubieta JK (2014). Relationship between impulsivity, prefrontal anticipatory activation, and striatal dopamine release during rewarded task performance. *Psychiatry Res*, 223(3), 244-52.
22. DaSilva AF, Nascimento TD, DosSantos MF, Lucas S, van Holsbeeck H, DeBoer M, Maslowski E, **Love T**, Martikainen IK, Koeppe RA, Smith YR, Zubieta JK (2014). Association of mu-Opioid Activation in the Prefrontal Cortex with Spontaneous Migraine Attacks - Brief Report I. *Ann Clin Transl Neurol*, 1(6), 439-444.
23. Nascimento TD, DosSantos MF, Lucas S, van Holsbeeck H, DeBoer M, Maslowski E, **Love T**, Martikainen IK, Koeppe RA, Smith YR, Zubieta JK, DaSilva AF (2014). mu-Opioid activation in the midbrain during migraine allodynia - brief report II. *Ann Clin Transl Neurol*, 1(6), 445-50.
24. Pecina M, Martinez-Jauand M, **Love T**, Heffernan J, Montoya P, Hodgkinson C, Stohler CS, Goldman D, Zubieta JK (2014). Valence-specific effects of BDNF Val66Met polymorphism on dopaminergic stress and reward processing in humans. *J Neurosci*, 34(17), 5874-81.
25. **Love TM** (2014). Oxytocin, motivation and the role of dopamine. *Pharmacol Biochem Behav*, 119, 49-60.
26. DaSilva AF, Nascimento TD, **Love T**, DosSantos MF, Martikainen IK, Cummiford CM, DeBoer M, Lucas SR, Bender MA, Koeppe RA, Hall T, Petty S, Maslowski E, Smith YR, Zubieta JK (2014). 3D-neuronavigation in vivo through a patient's brain during a spontaneous migraine headache. *LID - 10.3791/50682 [doi]*. *J Vis Exp*, (88).
27. DosSantos MF, Martikainen IK, Nascimento TD, **Love TM**, DeBoer MD, Schambra HM, Bikson M, Zubieta JK, DaSilva AF (2014). Building up analgesia in humans via the endogenous mu-opioid system by combining placebo and active tDCS: a preliminary report. *PLoS ONE*, 9(7), e102350.
28. Hsu DT, Sanford BJ, Meyers KK, **Love TM**, Hazlett KE, Wang H, Ni L, Walker SJ, Mickey BJ, Korycinski ST, Koeppe RA, Crocker JK, Langenecker SA, Zubieta JK (2013). Response of the mu-opioid system to social rejection and acceptance. *Mol Psychiatry*, 18(11), 1211-7.
29. Martikainen IK, Pecina M, **Love TM**, Nuechterlein EB, Cummiford CM, Green CR, Harris RE, Stohler CS, Zubieta JK (2013). Alterations in endogenous opioid functional measures in chronic back pain. *J Neurosci*, 33(37), 14729-37.
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31. Pecina M, Mickey BJ, **Love T**, Wang H, Langenecker SA, Hodgkinson C, Shen PH, Villafuerte S, Hsu D, Weisenbach SL, Stohler CS, Goldman D, Zubieta JK (2013). DRD2 polymorphisms modulate reward and emotion processing, dopamine neurotransmission and openness to experience. *Cortex*, 49(3), 877-90.
32. Pecina M, Azhar H, **Love TM**, Lu T, Fredrickson BL, Stohler CS, Zubieta JK (2013). Personality trait predictors of placebo analgesia and neurobiological correlates. *Neuropsychopharmacology*, 38 (4), 639-46.

33. Burghardt PR, **Love TM**, Stohler CS, Hodgkinson C, Shen PH, Enoch MA, Goldman D, Zubieta JK (2012). Leptin regulates dopamine responses to sustained stress in humans. *J Neurosci*, 32(44), 15369-76.
34. Berent-Spillson A, Persad CC, **Love T**, Sowers M, Randolph JF, Zubieta JK, Smith YR (2012). Hormonal environment affects cognition independent of age during the menopause transition. *J Clin Endocrinol Metab*, 97(9), E1686-94.
35. **Love TM**, Enoch MA, Hodgkinson CA, Pecina M, Mickey B, Koeppe RA, Stohler CS, Goldman D, Zubieta JK (2012). Oxytocin gene polymorphisms influence human dopaminergic function in a sex-dependent manner. *Biol Psychiatry*, 72(3), 198-206.
36. Mickey BJ, Sanford BJ, **Love TM**, Shen PH, Hodgkinson CA, Stohler CS, Goldman D, Zubieta JK (2012). Striatal dopamine release and genetic variation of the serotonin 2C receptor in humans. *J Neurosci*, 32(27), 9344-50.
37. Hsu DT, Mickey BJ, Langenecker SA, Heitzeg MM, **Love TM**, Wang H, Kennedy SE, Pecina M, Shafir T, Hodgkinson CA, Enoch MA, Goldman D, Zubieta JK (2012). Variation in the corticotropin-releasing hormone receptor 1 (CRHR1) gene influences fMRI signal responses during emotional stimulus processing. *J Neurosci*, 32(9), 3253-60.
38. Shafir T, **Love T**, Berent-Spillson A, Persad CC, Wang H, Reame NK, Frey KA, Zubieta JK, Smith YR (2012). Postmenopausal hormone use impact on emotion processing circuitry. *Behav Brain Res*, 226(1), 147-53.
39. DosSantos MF, **Love TM**, Martikainen IK, Nascimento TD, Fregni F, Cummiford C, Deboer MD, Zubieta JK, Dasilva AF (2012). Immediate effects of tDCS on the mu-opioid system of a chronic pain patient. *Front Psychiatry*, 3, 93.
40. DosSantos MF, Martikainen IK, Nascimento TD, **Love TM**, Deboer MD, Maslowski EC, Monteiro AA, Vincent MB, Zubieta JK, DaSilva AF (2012). Reduced basal ganglia mu-opioid receptor availability in trigeminal neuropathic pain: a pilot study. *Molecular Pain*, 8, 74.
41. Smith YR, Bowen L, **Love TM**, Berent-Spillson A, Frey KA, Persad CC, Reame NK, Koeppe RA, Zubieta JK (2011). Early initiation of hormone therapy in menopausal women is associated with increased hippocampal and posterior cingulate cholinergic activity. *J Clin Endocrinol Metab*, 96 (11), E1761-70.
42. Berent-Spillson A, **Love T**, Pop-Busui R, Sowers M, Persad CC, Pennington KP, Eyvazaddeh AD, Padmanabhan V, Zubieta JK, Smith YR (2011). Insulin resistance influences central opioid activity in polycystic ovary syndrome. *Fertil Steril*, 95(8), 2494-8.
43. Mickey BJ, Zhou Z, Heitzeg MM, Heinz E, Hodgkinson CA, Hsu DT, Langenecker SA, **Love TM**, Pecina M, Shafir T, Stohler CS, Goldman D, Zubieta JK (2011). Emotion processing, major depression, and functional genetic variation of neuropeptide Y. *JAMA Psychiatry (Formerly Arch Gen Psychiatry)*, 68(2), 158-66.
44. Prossin AR, **Love TM**, Koeppe RA, Zubieta JK, Silk KR (2010). Dysregulation of regional endogenous opioid function in borderline personality disorder. *Am J Psychiatry*, 167(8), 925-33.
45. Berent-Spillson A, Persad CC, **Love T**, Tkaczyk A, Wang H, Reame NK, Frey KA, Zubieta JK, Smith YR (2010). Early menopausal hormone use influences brain regions used for visual working memory. *Menopause*, 17(4), 692-9.
46. **Love T**, Smith YR, Persad CC, Tkaczyk A, Zubieta JK (2010). Short-term hormone treatment modulates emotion response circuitry in postmenopausal women. *Fertil Steril*, 93(6), 1929-37.
47. **Love TM**, Stohler CS, Zubieta JK (2009). Positron emission tomography measures of endogenous opioid neurotransmission and impulsiveness traits in humans. *JAMA Psychiatry (Formerly Arch Gen Psychiatry)*, 66(10), 1124-34.

48. Persad CC, Zubieta JK, **Love T**, Wang H, Tkaczyk A, Smith YR (2009). Enhanced neuroactivation during verbal memory processing in postmenopausal women receiving short-term hormone therapy. *Fertil Steril*, 92(1), 197-204.
49. Hutsler JJ, **Love T**, Zhang H (2007). Histological and magnetic resonance imaging assessment of cortical layering and thickness in autism spectrum disorders. *Biol Psychiatry*, 61(4), 449-57.
50. Smith YR, **Love T**, Persad CC, Tkaczyk A, Nichols TE, Zubieta JK (2006). Impact of combined estradiol and norethindrone therapy on visuospatial working memory assessed by functional magnetic resonance imaging. *J Clin Endocrinol Metab*, 91(11), 4476-81.
51. Jung RE, Yeo RA, **Love TM**, Petropoulos H, Sibbitt WL Jr, Brooks WM (2002). Biochemical markers of mood: a proton magnetic resonance spectroscopy study of normal human brain. *Biol Psychiatry*, 51(3), 224-9.

Scientific Abstracts

Oral Presentations

1. Love T (2020). Reward Processing in Chronic Pain Varies by Sex and Opioid Use, Annual Meeting of the American College of Neuropsychopharmacology, Virtual.
2. Love T (2019). Oxytocin Effects on Stress & Reward: Neuroimaging Findings, Annual Winter Conference on Brain Research, Aspen, CO
3. Love T (2019). Influence of Oxytocin on Social Reward Processing in Alcohol Use Disorder, Annual Research Society on Alcoholism Scientific Meeting, Minneapolis, MN
4. Love T (2016). Impact of Social Support on Psychiatric Symptom Severity is Moderated by Oxytocin Genotype in Alcohol Dependent Patients, Research Society on Alcoholism, New Orleans, LA
5. Love T (2014). Neuroimaging Database Implementation. Brainhack Conference, Ann Arbor, MI
6. Love T (2013). Pre-treatment μ -opioid receptor (MOR) availability in vivo differentially predicts analgesic response to verum and sham acupuncture in chronic pain patients. Society for Acupuncture Research 2013 International Conference, Ann Arbor, MI.
7. Love T, Zubieta JK (2010). Dopamine-Opioid Interactions in Attachment Style & Impulsivity Traits. Annual Society of Biological Psychiatry Conference, New Orleans, LA
8. Love T (2010). Individual Differences in Dopaminergic Stress Responsiveness in Humans: Impact of Sex and Genetic Variation. Annual Winter Conference on Brain Research, Breckenridge, CO
9. Love T (2017). Alcohol: Social Support, Genetics, & Applicability to Treatment. Addictions Update, Salt Lake City, UT

Posters

1. Thurston MD, Erickson LC, Mickey BJ, **Love T** (2023). Oxytocin Differentially Modulates Reward System Responses to Social versus Non-Social Incentives. Annual Meeting of Organization for Human Brain Mapping, Montreal, Canada.
2. Thurston MD, Musso L, Konrad A, Maliske L, Förster K., Erickson LC, Kanske P, and **Love TM**. (2022). Social Affective States on fMRI of Anticipation and Feedback in Non-Social versus Social Incentives. Annual Meeting of Organization for Human Brain Mapping, Glasgow, SCT, UK.
3. Thurston MD, Erickson LC, Koppelmans V, Mickey B, **Love T** (2021). Social Reward Dysfunction in Patients with Alcohol Use Disorder. Annual Society of Biological Psychiatry Meeting, Virtual.
4. **Love T**, Shabalain A, Kember R, Docherty A, Zhou H, Gelernter J, Baker A, Hartwell E, Dubroff J, Zubieta JK, Kranzler H (2021). Associations Between Endogenous Opioid System Functioning and Polygenic Risk for Major Depression and Opioid Use Disorder. Annual American College of Neuropsychopharmacology, San Juan, Puerto Rico.
5. Smith AJ, Griffin B, Wright H, Shoji K, **Love T**, Kerig P, Olf M, Benight C, Langenecker S (2021). Stress-related mental health risks differentially associated with pandemic stressors at the outset of the pandemic. Annual Conference of the International Society for Traumatic Stress Studies, Virtual.
6. Smith AJ, Shoji K, Griffin BJ, **Love TM**, Benight CC, Langenecker SA (2021). Resilience Mechanisms Among Healthcare Workers Across the First Three Months of the Pandemic. Annual Society of Biological Psychiatry Meeting, Virtual.
7. **Love T**, Cardon L, Koppelmans V, Mickey B, Zubieta JK (2020). Incentive Processing in Chronic Pain Patients Varies by Sex and Opioid Use. Annual Society of Biological Psychiatry Meeting, Virtual.
8. Mickey B, Warthen K, Boyse-Peacor A, Jones K, Sanford B, **Love T** (2020). Behavioral, Autonomic, and Neural Evidence of Sex Differences in the Human Reward System. Annual Society of Biological Psychiatry Meeting, Virtual.

9. Ericksen L, Koppelmans V, Zubieta JK, **Love TM** (2019). Impact of Chronic Pain on Neural Responses to Monetary Reward and Loss. Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy.
10. Warthen KG, Jones KG, Boyse-Peacor A, Sanford B, **Love TM**, Mickey BJ (2019). Sex differences in the reward system: Neural, autonomic, and behavioral responses in healthy humans. Annual Society of Biological Psychiatry Meeting, Chicago, IL.
11. **Love TM**, Mickey B, Ericksen LC, Koppelmans V, Ballester J, Zubieta JK (2018). VTA Responses to Reward Altered in Chronic Pain: Effect of Sex. Annual American College of Neuropsychopharmacology, Hollywood, FL.
12. Ballester-Gonzalez J, Koppelmans V, Zubieta JK, **Love T** (2018). Higher amygdala mu-opioid receptor availability in chronic pain patients at risk for opioid misuse. Annual Society of Biological Psychiatry Meeting, New York, NY.
13. Hsu DT, **Love TM**, Elverman KH, Walker SJ, Mickey BJ, Zubieta JK, Langenecker SA (2017). Suicidal ideation is associated with reduced endogenous opioid release during social rejection and acceptance. Annual American College of Neuropsychopharmacology, Hollywood, FL.
14. **Love TM**, Cranford J, Zucker RA, Brower K (2016). The Effect of Social Support on Quality of Life is Moderated by Oxytocin Genotype in Alcohol Use Disorder. Annual American College of Neuropsychopharmacology, Hollywood, FL.
15. Weisenbach S, Pruitt P, Pecina M, Sikora M, **Love T**, Avery E, Zubieta, JK, Welsh R (2016). Multimodal Assessment of the Positive Valence Network in Major Depressive Disorder. Annual American College of Neuropsychopharmacology, Hollywood, FL.
16. Yttredahl AA, Sanford BJ, Hazlett KE, **Love TM**, Mickey BJ, Koeppe RA, Crocker JK, Langenecker SA, Zubieta JK, Hsu DT (2016). Might as well face it, we're addicted to love: Endogenous opioid release in the subgenual cingulate cortex influences emotional responses to social acceptance through the nucleus accumbens. Annual Meeting at the Society for Social Neuroscience, San Diego, CA.
17. Mickey BJ, Heffernan J, Heisel C, Pecina M, Hsu DT, Zubieta JK, **Love TM** (2016). Intranasal Oxytocin Modulates Neural Responses to Incentive Stimuli in Humans. Annual American Society of Clinical Psychopharmacology Meeting, Scottsdale, AZ.
18. Yttredahl A, Sanford BJ, McRobert E, Sheler B, Mickey BJ, **Love T**, Welsh RC, Langenecker SA, Zubieta JK, Hsu DT (2016). Social Anhedonia? Happiness Following Social Reward is Mediated by the Nucleus Accumbens in Health, but not Depressed Women. Annual Society of Biological Psychiatry Meeting, Atlanta, GA.
19. Malik MA, Yttredahl AA, Sanford BJ, McRobert E, Sheler B, Mickey BJ, **Love TM**, Welsh RC, Langenecker SA, Zubieta JK, Hsu DT (2016). Gender Differences in Social Rejection and Acceptance: An fMRI Study. Annual Society of Biological Psychiatry Meeting, Atlanta, GA.
20. **Love T**, Heffernan J, Hsu D, Mickey B (2016). Oxytocin influences the time course of reward-related brain activity. Annual Society of Biological Psychiatry Meeting, Atlanta, GA.
21. Fourcade EW, Yttredahl AA, Sanford BJ, McRobert E, Sheler B, Mickey BJ, **Love TM**, Langenecker SA, Zubieta JK, Hsu DT (2016). What matters more? Neural processing of monetary loss and social rejection in depressed vs. healthy women. Annual Society of Biological Psychiatry Meeting, Atlanta, GA.
22. **Love T**, Heffernan J, Hsu D, Mickey B (2015). Differential Effects of Oxytocin on Social and Monetary Reward Processing. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
23. Hsu DT, Mickey BJ, Langenecker SA, Heitzeg MM, **Love TM**, Wang H, Kennedy SE, Pecina M, Shafir T, Hodgkinson CA, Enoch MA, Goldman D, Zubieta JK (2015). Allelic Variation in the Corticotropin-Releasing Hormone Receptor 1 (CRHR1) Gene Influences fMRI Signal Responses to Emotional Stimuli. Annual Society of Biological Psychiatry Meeting, Toronto, Canada.

24. Patron VG, Nuechterlein E, **Love T**, Phan KL, Weisenbach S, Heffernan J, Zubieta JK (2015). Hypoactivation of Key Emotion Processing Regions during Facial Affect Perception in Chronic Pain Patients. Annual Society of Biological Psychiatry Meeting, Toronto, Canada.
25. Weisenbach S, Pecina M, Avery E, Pruitt P, Heffernan J, Mickey B, **Love T**, Zubieta JK (2015). Internal Motivational Incentive Variation Predicts Activation during Anticipation and Receipt of Monetary Reward during Major Depressive Disorder. Annual Society of Biological Psychiatry Meeting, Toronto, Canada.
26. Heffernan J, Avery E, Chang E, **Love T**, Zubieta JK, Pecina M (2015). The Neural Correlates of Expectations of Fast-acting Antidepressant Effects in Patients with Major Depression. Annual Society of Biological Psychiatry Meeting, Toronto, Canada.
27. Pruitt P, Pecina M, **Love T**, Mickey B, Avery E, Diaz V, Zubieta JK (2015). Anticipatory Incentive Response, μ -opioid receptors and antidepressant treatment response. Annual Society of Biological Psychiatry Meeting, Toronto, Canada.
28. Yttredahl AA, Sanford BJ, McRobert E, Sheler B, Mickey BJ, **Love TM**, Welsh RC, Langenecker SA, Zubieta JK, Hsu DT (2015). He likes me, he likes me not: differences in the neural processing of positive and negative social feedback in depressed and healthy women. Annual Society for Neuroscience Conference, Washington, DC.
29. **Love TM**, Heffernan J, Mickey B, Heisel C, Pecina M, Hsu DT, Zubieta JK (2014). Oxytocin administration modulates mesoaccumbal activity in response to non-social reward. Annual American College of Neuropsychopharmacology Conference, Phoenix, AZ.
30. **Love TM**, Cranford J, Zucker RA, Brower K (2014). Oxytocin genotype moderates the relationship between social support and psychiatry symptom severity. Annual Society of Biological Psychiatry Meeting, San Francisco, CA.
31. Hsu D, Sanford B, Meyers K, **Love T**, Hazlett K, Walker S, Mickey B, Koeppe R, Langenecker S, Zubieta JK (2014). Endogenous Opioid, Neuroendocrine, and Behavioral Responses to Social Rejection and Acceptance in Major Depressive Disorder. Annual American College of Neuropsychopharmacology Conference, Phoenix, AZ.
32. Nascimento TD, DosSantos MF, Lucas S, Deboer M, Van Holsbeeck H, Maslowski E, **Love T**, Martikainen I, Koeppe R, Smith Y, Zubieta JK, Danciu TE, DaSilva AF (2014). Activation of μ -Opioid System During Spontaneous Migraine Headache and Allodynia. AADR Annual Meeting & Exhibition, Charlotte, NC.
33. DosSantos MF, Martikainen IK, Nascimento TD, **Love T**, Deboer MD, Zubieta JK, DaSilva AF (2014). Human μ -Opioid Mechanisms in Placebo and Active tDCS Analgesia. AADR Annual Meeting & Exhibition, Charlotte, NC.
34. Nascimento TD, DosSantos MF, Lucas S, Van Holsbeeck H, DeBoer M, Maslowski E, **Love T**, Martikainen IK, Koeppe IK, Smith YR, Zubieta J, DaSilva AF (2014). High Endogenous M -Opioid Activation In The Prefrontal Cortex And Midbrain During Spontaneous Migraine And Allodynia. International Association for the Study of Pain, World Congress of Pain Meeting. Buenos Aires, Argentina.
35. DosSantos MF, Martikainen IK, Nascimento TD, **Love TM**, DeBoer MD, Schambra HM, Bikson M, Zubieta JK, DaSilva AF. "Placebo and Active tDCS Analgesia: Shared and Dissimilar Endogenous Opioid Mechanisms" International Association for the Study of Pain, World Congress of Pain Meeting. Buenos Aires, Argentina.
36. **Love TM**, Enoch MA, Goldman D, Hodgkinson C, Zubieta JK (2013). OXY genotype predicts anticipatory responses to reward. Annual Society of Biological Psychiatry Meeting, San Francisco, CA.
37. Glaser YG, **Love TM**, Burmeister M, Zucker RA, Zubieta JK, Heitzeg MM (2013). Effects of the oxytocin gene variant in children and adolescents at high risk for alcoholism. Annual Scientific Meeting of the Research Society on Alcoholism, Orlando, FL.

38. Nuechterlein E, Martikainen I, **Love TM**, Cummiford CM, Zubieta JK (2013). Differences in endogenous opioid system function in chronic pain patients receiving opioid medication. Annual Society of Biological Psychiatry Meeting, San Francisco, CA.
39. Pruitt P, Pecina M, Stern E, **Love T**, Mickey B, Avery E, Diaz V, Weisenbach S, Zubieta JK (2013). Neural response to uncertainty as a predictor of placebo effect in depression. Annual Society of Biological Psychiatry Meeting, San Francisco, CA.
40. Hsu DT, Sanford BJ, Meyers KK, Hazlett KE, **Love TM**, Mickey BJ, Koeppe RA, Crocker JK, Langenecker SA, Zubieta JK (2013). μ -Opioid system activation predicts BOLD responses to social rejection and acceptance: A combined PET and fMRI study. Annual Society for Neuroscience Conference Washington, DC.
41. Hsu DT, Sanford BJ, Meyers K, Hazlett KE, **Love T**, Mickey BJ, Langenecker S, Zubieta JK (2013). Being Liked Increases Social Motivation, but Not in Depressed Individuals: A μ -Opioid Positron Emission Tomography (PET) Study of the Ventral Striatum. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
42. Pecina M, **Love T**, Hodgkinson CA, Goldman D, Stohler C, Zubieta JK (2013). Implications of the Human Mu Opioid Receptor (OPRM1 A118G) Polymorphism in the Neurobiology of Stress and Placebo Responses. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
43. Petti A, Kessler D, Heitzeg M, Langenecker S, **Love T**, Silk K, Zubieta JK, Sripada C, Mickey BJ (2013). Abnormalities of Two Distributed Brain Networks in Major Depression. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
44. DosSantos MF, Martikainen IK, Nascimento TD, **Love TM**, Deboer MD, Zubieta JK, DaSilva AF (2013). Placebo tDCS induces acute changes in the endogenous mu-opioid system. International Headache Congress, Boston, MA.
45. Nascimento TD, **Love T**, DosSantos MF, Martikainen IK, Cummiford CM, DeBoer M, Koeppe RA, Hall T, Petty S, Maslowski E, Smith YR, Zubieta JK, DaSilva AF (2013). Impact of a spontaneous migraine attack in the endogenous mu-opioid system in vivo. International Headache Conference, Boston MA.
46. **Love TM**, Cummiford C, Mickey B, Heffernan J, Chang E, Zubieta JK (2012). Naltrexone modulates anticipatory responses to reward. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
47. Cummiford CM, **Love TM**, Koeppe R, Zubieta JK (2012). Regional analysis of naltrexone effects on mu-opioid availability in vivo. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
48. Akbar N, Zubieta J, **Love T**, Clauw D, Harris R (2012). Differential acute effects of real and sham acupuncture on mu-opioid receptor availability in treatment naive and conditioned chronic pain patients. International Research Congress on Integrative Medicine and Health Meeting, Portland, OR.
49. Weisenbach SL, **Love T**, Fredrickson BL, Stohler CS, Zubieta JK (2012). The role of dopaminergic systems in psychological well being: a multimodal neuroimaging study. Annual Society of Biological Psychiatry Meeting, Philadelphia, PA.
50. Mickey BJ, Andrews A, Cummiford C, Guduri S, **Love T**, Silk KR, Zubieta JK (2012). Subgenual cingulate abnormalities in borderline personality disorder: comparison to major depression disorder. Annual Society of Biological Psychiatry Meeting, Philadelphia, PA.
51. Cummiford C, Langenecker SA, **Love T**, Silk KR, Zubieta JK (2012). Alterations in impulse control circuitry in borderline personality disorder. Annual Society of Biological Psychiatry Meeting, Philadelphia, PA.
52. **Love T**, Cummiford C, Heisel E, Silk K, Zubieta JK (2012). Increased endogenous opioid system responses to pain in borderline personality disorder. Annual Society of Biological Psychiatry Meeting, Philadelphia, PA.

53. Mickey BJ, Sanford BJ, **Love T**, Shen PH, Hodgkinson C, Stohler CS, Goldman D, Zubieta JK (2012). Genetic variation of the 5HT_{2C} receptor modulates human striatal dopaminergic activation to stress. MICHR Annual Research Education Symposium: Ann Arbor, MI.
54. **Love T**, Scott D, Goldman D, Hodgkinson C, Enoch MA, Zubieta JK (2012). Neural responses to reward associated with oxytocin (OXT) gene polymorphisms. MICHR Annual Research Education Symposium: Ann Arbor, MI.
55. DaSilva AF, Nascimento TD, **Love T**, DosSantos MF, Martikainen IK, De Boer M, Cummiford CM, Fregni F, Smith YR, Maslowski E, Zubieta JK (2012). Endogenous mu-opioid system as a research and therapeutic target in migraine. Annual Meeting of the American Neurological Association, Boston, MA.
56. Marsh CA, Berent-Spillson A, **Love T**, Pop-Busui R, Persad CC, Zubieta JK, Smith YR (2012). Limbic Activation with Emotional Processing Associated with Central Opioid Activity in Polycystic Ovary Syndrome. Annual Scientific Meeting of the Society for Gynecologic Investigation, San Diego, CA.
57. DosSantos MF, Martikainen IK, Nascimento TD, **Love TM**, Deboer MD, Khatib LN, Zubieta JK, DaSilva AF (2012). Reduced μ -Opioid Receptor Availability in Nucleus Accumbens in Trigeminal Neuropathic Pain. International Association for the Study of Pain, World Congress of Pain Meeting. Milan, Italy.
58. Nascimento TD, DosSantos MF, Martikainen IK, **Love TM**, PhD, Cummiford CM, Deboer MD, Khatib LN, Smith YR, Zubieta JK, DaSilva AF (2012). Molecular Profile of a Migraine Attack: Impact in The Endogenous Opioidergic System. International Association for the Study of Pain, World Congress of Pain Meeting. Milan, Italy.
59. Hsu DT, **Love TM**, Sanford BJ, Wang H, Meyers KK, Hazlett KE, Ni L, Walker SJ, Korycinski ST, Koeppe RA, Crocker JK, Langenecker SA, Zubieta JK (2011). Social rejection activates endogenous opioid systems. Annual American College of Neuropsychopharmacology Conference, Waikoloa, Hawaii.
60. Mickey BJ, Andrews A, Cummiford C, Guduri S, **Love T**, Silk KR, Zubieta JK (2011). Subgenual cingulate abnormalities in borderline personality disorder: Comparison to major depressive disorder. Annual American College of Neuropsychopharmacology Conference, Waikoloa, Hawaii.
61. Hsu DT, Mickey BJ, Langenecker SA, Heitzeg MM, **Love TM**, Wang H, Kennedy SE, Pecina M, Shafir T, Hodgkinson CA, Enoch MA, Goldman MA, Goldman D, Zubieta JK (2011). Variations in the corticotropin-releasing hormone receptor gene (rs110402) influence BOLD signal responses during emotional stimulus processing. Annual Society for Neuroscience Conference, Washington DC.
62. **Love T**, Cummiford C, Silk K, Zubieta JK (2011). Exaggerated neural responses to reward anticipation in borderline personality disorder. Annual Human Brain Mapping Conference, Quebec, Canada.
63. Zubieta JK, **Love T**, Peciña M, Stohler CS (2011). Endogenous opioid system modulation of motivation circuitry. Annual College on Problems of Drug Dependence Meeting, Hollywood, FL.
64. Mickey BJ, Cummiford CM, Guduri S, **Love T**, Silk K, and Zubieta JK (2011). Cortical emotion processing and depression in women with borderline personality disorder. Annual Society of Biological Psychiatry Meeting, San Francisco, California.
65. Smith YR, Reame N, Persad C, Berent A, Wang H, Frey KA, Koeppe RA, Bowen L, **Love T**, Zubieta JK (2011). Early initiated menopausal hormone therapy linked to increased cholinergic activity. Annual Meeting for the Society for Gynecologic Investigation, Miami, FL.
66. **Love T**, Stohler CS, Zubieta JK (2011). Nucleus accumbens anticipatory responses to reward are associated with stress-induced dopaminergic activity. Annual American College of Neuropsychopharmacology Conference, Miami, FL.
67. DaSilva AF, **Love T**, DosSantos MH, Martella A, Enoch MA, Hodgkinson C, Goldman D, Stohler C, and Zubieta JK. BDNF Val66Met Affects Dopaminergic Pathways Associated with Human Trigeminal Pain Experience. Annual American Headache Society Meeting. Los Angeles, CA.
68. Pecina M, Mickey B, Wang H, **Love T**, Hong PS, Langenecker S, Hsu D, Shafir T, Villafuerte S, Wright S, Goldman D, Zubieta JK (2010). Dopamine D2 receptor polymorphism modulates prefrontal function

- and connectivity during reward and emotion processing. Annual American College of Neuropsychopharmacology Conference, Miami, FL.
69. Mickey BJ, Zhou Z, Hsu DT, Langenecker SA, **Love TM**, Peciña M, Shafir T, Hodgekinson CA, Goldman DJ, Zubieta JK. (2010). Neural Responses to Affective Stimuli are Modulated by NPY Genotype. Annual Meeting of the Society of Biological Psychiatry, New Orleans, LA.
 70. DaSilva AF, **Love T**, DosSantos MH, Martella A, Enoch MA, Hodgkinson C, Goldman D, Stohler C, and Zubieta JK (2010). BDNF Val66Met Affects Dopaminergic Pathways Associated with Human Trigeminal Pain Experience. IADR General Session. Barcelona, Spain.
 71. Wright S, **Love T**, Fredrickson B, Stohler C, Zubieta JK (2010). Psychological well-being and life satisfaction predict dopamine release during a stressor and the activation of motivational networks during expectation of punishment in healthy males. Annual American College of Neuropsychopharmacology Conference, Miami, FL.
 72. Hsu DT, Mickey BJ, Langenecker SA, Heitzeg MM, **Love TM**, Wang H, Kennedy SE, Peciña M, Tal Shafir T, Hodgkinson CA, Enoch MA, Goldman D, Zubieta JK (2010). Blood-oxygenation-level dependent signal responses to emotional stimuli depend on variations in rs110402 within the corticotropin-releasing hormone receptor gene. Annual American College of Neuropsychopharmacology Conference, Miami, FL.
 73. Pecina M, Mickey B, Wang H, Shen P, **Love T**, Shafir T, Goldman D, Zubieta JK. (2010). DRD2 polymorphisms predicts individual differences in DLPFC during a reward anticipation task. Annual Human Brain Mapping Conference, Barcelona, Spain.
 74. Wright S, Mickey B, **Love T**, Wang H, Langenecker S, Zubieta JK (2010). Reward anticipation activation is associated with activation during emotion processing. Annual Human Brain Mapping Conference, Barcelona, Spain.
 75. **Love T**, Heitzeg M, Stohler CS, Zubieta JK (2009). Associations between elements of recent life stress and dopaminergic system activity: a [11C] raclopride study. Annual Human Brain Mapping Conference, San Francisco, CA.
 76. Mickey B, Zhou Z, **Love T**, Hodgkinson C, Goldman D, Zubieta JK (2009). NPY genotype predicts affective response to a pain stressor. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
 77. Smith YR, **Love T**, Persad CC, Tkaczyk A, Zubieta JK (2009). Neuroactivation of emotional response circuitry by short-term hormone treatment in postmenopausal women. Annual Meeting for the Society for Gynecologic Investigation, Glasgow, Scotland.
 78. Burghardt PR, **Love T**, Britton SL, Gerard-Koch L, Watson SJ, Zubieta JK, Akil H (2009). Overlapping neural systems regulate mood and metabolism. Annual American College of Neuropsychopharmacology Conference, Hollywood, FL.
 79. Prossin A, Silk K, **Love T**, Zubieta JK (2008). Dysregulation of emotion processing in Borderline Personality Disorder: The role of the endogenous opioid system. Annual American College of Neuropsychopharmacology Conference, Scottsdale, AZ.
 80. Prossin AR, Silk KR, **Love T**, Zubieta JK (2008). Evidence of endogenous opioid system dysregulation in borderline personality disorder. Annual Society of Biological Psychiatry Conference, Washington, DC.
 81. Evans C, **Love T**, Ducci F, Goldman D, Stohler C, Zubieta JK (2007). MAO-A gene polymorphism effects on an fMRI Go-NoGo task and relationship with personality traits associated with drug abuse vulnerability. Annual Human Brain Mapping Conference Chicago, IL.
 82. **Love T**, Scott D, Stohler C, Zubieta JK (2007). Sex differences in striatal dopamine release in response to pain: a [11C] raclopride study. Annual Human Brain Mapping Conference Chicago, IL.
 83. **Love T**, Venkataraman G, Stohler C, Zubieta JK (2007). Recent life stress modulates [11C] raclopride binding in healthy men. Annual Society of Biological Psychiatry Conference, San Diego, CA.

84. Mickey, BJ, Kennedy SE, **Love TM**, Zubieta JK (2007). Serotonin 1A receptor availability in Major Depression: Relation to episode severity, chronicity of illness, comorbid anxiety and response to medication. Annual Society of Biological Psychiatry Conference, San Diego, CA.
85. Smith YR, **Love T**, Persad CC, Tkaczyk A, Nichols, T, Zubieta JK (2006). Functional MRI study of postmenopausal hormone therapy: Effects on visuospatial working memory. American Society for Reproductive Medicine Meeting, New Orleans, LA.
86. Eichhammer P; Kennedy SE, **Love TM**, Koeppe RA, Sand P, Zubieta JK (2006) 5-HTTLPR genotype influences 5-HT1A receptor binding in depression. World Congress on Psychiatric Genetics, Cagliari, Italy
87. Kennedy SE, **Love TM**, Stohler CS, Zubieta JK (2005). Personality Trait Impulsiveness is associated with the stress-induced activation of μ -opioid receptor mediated neurotransmission. Annual Society for Neuroscience Conference, Washington, DC.
88. Kennedy SE, **Love TM**, Murphy-Weinberg V, Koeppe RA, Kilbourn MR, Young EA, Zubieta JK (2005). Reduced 5-HT1A receptor binding in unmedicated major depression and modulation following citalopram treatment. Annual Society of Biological Psychiatry Meeting, Atlanta, GA.
89. Kennedy SE, **Love TM**, Ribeiro S, Murphy-Weinberg V, Koeppe RA, Kilbourn MR, Young EA, Zubieta, JK (2005). Reduced 5-HT1A receptor binding in unmedicated major depression and modulation following SSRI treatment. Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada.
90. **Love TM**, Bueller JA, Kennedy SE, Stohler CS, Zubieta JK (2005). Stress-induced activation of the μ -opioid system and trait impulsiveness: a positive relationship. Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada.
91. Jung RE, **Love T**, Yeo RA, Chiulli SJ, Sibbitt WL, & Brooks WM (2001). Mood, biochemistry, and cognition: A proton MR spectroscopy study of normal human brain. Annual International Neuropsychological Society Conference, Chicago, IL.
92. Jung RE, **Love T**, Zamora LL, Petropoulos H, Yeo RA, Chiulli SJ & Brooks WM (2000). Biochemical Markers of Mood: A proton MR spectroscopy study of normal brain. Annual Rotman Research Institute Conference: The Frontal Lobes, Toronto, Canada.

TECHNICAL SKILLS:

Programming Languages

Python, C/C++, R, Matlab, Unix shell scripting (bash, csh), SQL, Visual Basic, HTML, Javascript

MRI Technologist

3+ years of experience operating 3.0 T GE Signa scanner. Familiar with Philips Ingenia, Siemens Prisma operation.