

Jonathan Bradley Savitz

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EDUCATION

University of Cape Town Ph.D. Human Genetics	Cape Town, South Africa 2006
University of the Witwatersrand M.S. Neuropsychology	Johannesburg, South Africa 2001
B.S. (Hons) Clinical Psychology (First Class)	1998
B.S. Genetics & Psychology (First Class)	1997

POSITIONS

Laureate Institute for Brain Research <i>Principal Investigator</i>	Tulsa, OK 2009 – present
The University of Tulsa <i>Associate Professor (with tenure), Oxley College of Health Sciences</i>	Tulsa, OK 2017 - present
The University of Tulsa <i>Assistant Professor, Oxley College of Health Sciences</i>	Tulsa, OK 2011-present
National Institutes of Health <i>Post-Doctoral Fellow with Wayne Drevets</i> Mood and Anxiety Disorders Program, Section on Neuroimaging, NIMH	Bethesda, MD 2007-2009
University of Cape Town <i>Post-Doctoral Fellow with Dan Stein</i> Brain and Behaviour Initiative, Department of Psychiatry	Cape Town, South Africa 2006
<i>Clinical Intern in Neuropsychology with Mark Solms</i> Groote Schuur Hospital Department of Neurology	2004-2005
<i>Ph.D. Candidate with Raj Ramesar</i> Department of Human Genetics	2002-2006

FELLOWSHIPS & AWARDS

NARSAD Young Investigator Award	2015
Associate Member, American College of Neuropsychopharmacology (ACNP)	2013

Career Development Award from the NIMH	2012
NARSAD Anita C. and Robert F. Mitchell Memorial Investigator	2009
Post-Doctoral Fellow, SNMAD, NIMH	2007-2009
Post-Doctoral Fellow, Brain and Behaviour Initiative, UCT	2006
University of Cape Town Research Associateship	2004
South African Medical Research Council Local Scholarship	2002-2005
Witwatersrand University Postgraduate Merit Bursary	1998-2001
Centre for Science Development Scholarship	1998
University of the Witwatersrand Postgraduate Merit Scholarship	1998
University of the Witwatersrand Council Merit Scholarship	1997

RESEARCH GRANTS

Principle Investigator (Active)

CoBRE (P20GM121312)	\$7,493,505	2017-2022
PI for Project: Response to inflammatory challenge in major depressive disorder		
NARSAD Young Investigator Award:	\$70,000	2016-2018 NCE
Impaired Adaptive Immunity in Depression: Relationship with herpesviruses and inflammation		

Co-Investigator (Active)

R01 (NS102225)	\$1,785,448	2018-2022
The role of neuroactive kynurenine metabolites in the chronic sequelae of concussion and contact sport exposure		
R21 (NS099789)	\$246,757	2017-2019
Inflammation and kynurenine metabolites in the acute sequelae of concussion		

Principal Investigator (Past)

K01 (MH096077)	\$905,484	2012-2017
Neuroimaging abnormalities in major depressive disorder: effect of inflammation		

Janssen Pharmaceuticals:	\$829,703	2013-2016
Biomarkers in Mood		
Oklahoma Tobacco Research Center:	\$219,413	2012-2015
α 7 Nicotinic Receptor Function in Depression: The Impact of Smoking		
Oklahoma Center for the Advancement of Science and Technology:	\$150,000	2011-2013
Neuroimaging Biomarkers of Major Depression		
Oklahoma Tobacco Research Center:	\$59,542	2012-2012
Smoking, Inflammation and Neuromorphometric Abnormalities		
NARSAD Young Investigator Award:	\$60,000	2009-2010
Amygdala Response to Masked Sad and Happy Faces in Major Depressive Disorder and their First-Degree Relatives: A Genetically- Driven Subliminal Processing Bias?		
Hope for Depression Research Foundation:	\$110,000	2008-2009
Catecholamine depletion in affective illness: functional imaging and genetic correlates.		
<u>Co-Investigator (Past)</u>		
R01 (MH098099)	\$1,601,159	2012-2016
Inflammatory Transcripts, Genes and Positive Valence System Function in Anhedonia		
Stanley Medical Research Foundation:	\$659,623	2012-2015
Minocycline and Aspirin in the Treatment of Bipolar Depression		

PATENTS

U.S. provisional patent, application # US-2017-0354667-A1. Composition and Method for Treating Bipolar Disorder. Inventors: Wayne. C. Drevets, William. R. Yates, **Jonathan B. Savitz**, Sheldon H. Preskorn.

PEER-REVIEWED PUBLICATIONS

~3,300 citations, H-index 29 (Web of Science)

~5,000 citations, H-index 37 (Google Scholar)

Mean Relative Citation Ratio 3.43 (iCite)

Impact Factor for Publications in Parentheses

** Classified as highly cited in Web of Science*

FIRST/SENIOR AUTHOR PUBLICATIONS

- (1) **Savitz, J.B** and Jansen, P. (2003). The Stroop Color-Word Interference Test as an Indicator of ADHD in Poor Readers. **Journal of Genetic Psychology**. 164, 319-333. [0.5]
- (2) **Savitz, J.B** & Ramesar, R.S. (2004). Genetic Variants Implicated in Personality: A Review of the More Promising Candidates. **American Journal of Medical Genetics**. 131B, 20-32. [3.3]
- (3) **Savitz, J.**, Solms, M., Pietersen, E., Ramesar, R., Flor-Henry, P. (2004). Dissociative Identity Disorder Associated with Mania and Change in Handedness. **Cognitive and Behavioral Neurology**. 17, 233-237. [1.3]
- (4) **Savitz, J.B** & Jansen, P. (2005). Mainstream and Remedial School ADHD Boys: More Alike Than Different. **South African Journal of Psychology**. 35, 73-88. [0.6]
- (5) **Savitz, J.B.**, Solms, M., Ramesar, R.S. (2005). Neurocognitive function as an endophenotype for genetic studies of bipolar affective disorder. **NeuroMolecular Medicine**. 7, 275-286. [3.3]
- (6) **Savitz, J.**, Solms, M., Ramesar, R. (2005). Neuropsychological Deficits in Bipolar Affective Disorder: A Critical Opinion. **Bipolar Disorders**. 7, 216-235. [4.5]
- (7) **Savitz, J.**, Solms, M., Ramesar, R. (2006). The Molecular Genetics of Cognition: Dopamine, COMT, and BDNF. **Genes, Brain and Behavior**. 5, 311-328. [3.7]
- (8) **Savitz, J.**, Solms, M., Ramesar, R. (2006). Apolipoprotein E Variants and Cognition in Healthy Individuals: A Critical Opinion. **Brain Research Reviews**. 51, 125-135. [5.9]
- (9) **Savitz, J.B.** & Ramesar, R.S. (2006). Personality: Is it a viable endophenotype for genetic studies of bipolar affective disorder? **Bipolar Disorders**. 8, 322-337. [4.5]
- (10) **Savitz, J.B.**, Cupido, C.L., Ramesar, R.S. (2006). Trends in Suicidology: Personality as an Endophenotype for Molecular Genetic Investigations. **PLoS Medicine**. 3, e107. [11.9]
- (11) **Savitz J.**, van der Merwe, L., Solms, M., Ramesar, R. (2007). A Linkage and Family-Based Association Analysis of a Neurocognitive Endophenotype of Bipolar Disorder. **NeuroMolecular Medicine**. 9, 101-116. [3.3]

- (12) **Savitz J.**, Cupido, C.L., Ramesar, R. (2007). Preliminary Evidence for Linkage to Chromosome 1q31-32, 10q23.3 and 16p13.3 in a South African Cohort with Bipolar Disorder. **American Journal of Medical Genetics.** 144, 383-387. [3.3]
- (13) **Savitz J.** van der Merwe, L., Solms, M., Ramesar, R. (2007). A Possible Cognitive Control Deficit in an Extended Afrikaner-Ancestry Pedigree with Affective Illness. **Journal of Psychiatry and Neuroscience.** 32, 116-120. [5.2]
- (14) **Savitz J.**, van der Merwe, L., Stein, D.J., Solms, M., Ramesar, R. (2007). Genotype and childhood sexual trauma moderate neurocognitive performance: A possible role for BDNF and ApoE variants. **Biological Psychiatry.** 62, 391-399. [11.4]
- (15) **Savitz J.**, van der Merwe, L., Solms, M., Ramesar, R. (2007). Lateralisation of Hand-Skill in Bipolar Affective Disorder. **Genes, Brain and Behavior.** 6, 698-705. [3.7]
- (16) **Savitz J.**, van der Merwe, L., Newman, T.K., Solms, M., Stein, D.J., Ramesar, R. (2007). The Relationship Between Childhood Abuse and Dissociation. Is it influenced by catechol-o-methyltransferase (COMT) activity? **International Journal of Neuropsychopharmacology.** 11, 149-161. [4.7]
- (17) **Savitz J.** van der Merwe, L., Stein, D.J., Solms, M., Ramesar, R. (2008). Neuropsychological Task Performance in Bipolar Spectrum Illness: Genetics, Medication, Alcohol Abuse and Childhood Trauma. **Bipolar Disorders.** 10, 479-494. [4.5]
- (18) **Savitz J.**, van der Merwe, L., Ramesar, R. (2008). Hyperthymic, Cyclothymic and Hostile Personality Traits in Bipolar Spectrum Illness: A Family Based Study. **Journal of Psychiatric Research.** 42, 920-929. [4.1]
- (19) **Savitz J.**, van der Merwe, L., Ramesar, R. (2008). Dysthymic and Anxiety-Related Personality Traits in Bipolar Spectrum Illness. **Journal of Affective Disorders.** 109, 305-311. [3.4]
- (20) * Drevets, W.C. and **Savitz J.**, with forward by Trimble, M. (2008). The Subgenual Anterior Cingulate Cortex in Mood Disorders. **CNS Spectrums.** 13, 663-681. [3.6]
- (21) **Savitz J.**, van der Merwe, L., Ramesar, R. (2008). Personality Endophenotypes for Bipolar Affective Disorder: A Family-Based Genetic Association Analysis. **Genes Brain and Behavior.** 7, 869-876. [3.7]
- (22) **Savitz J.**, van der Merwe, L., Stein D.J., Solms, M., Ramesar, R. (2009). Neuropsychological Status of Bipolar Disorder Type I: The Impact of Psychosis. **British Journal of Psychiatry.** 194, 243-251. [6.3]
- (23) * **Savitz J.** and Drevets, W.C. (2009). Bipolar and Major Depressive Disorder: Neuroimaging the Developmental Degenerative Divide. **Neuroscience and Biobehavioral Reviews.** 33, 699-771. [8.3]

- (24) * **Savitz J.** and Drevets, W.C. (2009). 5-HT_{1A} Receptor Function in Major Depressive Disorder. **Progress in Neurobiology**. 88, 17-31. [13.2]
- (25) Stein, D.J., Horn, N., Ramesar, R., **Savitz, J.** (2009). Bipolar Disorder: Emotional Dysregulation and Neuronal Vulnerability. **CNS Spectrums**. 14, 122-126. [3.6]
- (26) **Savitz J. B.** and Drevets, W.C. (2009). Imaging Endophenotypes for Major Depressive Disorder. **Neuroscience**. 164, 300-330. [3.3]
- (27) **Savitz, J.**, van der Merwe, L., Newman, T.K., Stein, D.J., Ramesar, R. (2010). Catechol-o-Methyltransferase Genotype and Childhood Trauma May Interact to Impact Schizotypal Personality Traits. **Behavior Genetics**. 40, 415-423. [2.4]
- (28) **Savitz, J.**, Nugent, A.C., Bogers, W., Liu, L., Sills, R., Luckenbaugh, D., Bain, E.E., Price, J.L., Zarate, C., Manji, H.K., Cannon, D.M., Marrett, S., Charney, D., Drevets, W.C. (2010). Amygdala Volume in Depressed Patients with Bipolar Disorder Assessed using High Resolution 3T MRI: The Impact of Medication. **NeuroImage**. 49, 2966-2976. [5.8]
- (29) **Savitz, J.B.**, Nugent, A.C., Bogers, W., Roiser, J.P., Bain, E.E., Neumeister, A., Zarate, Jr., C.A., Manji, H.K., Cannon, D.M., Marrett, S., Henn, F., Charney, D.S., Drevets, W.C. (2011). Habenula Volume in Bipolar Disorder and Major Depressive Disorder: A High Resolution MRI Study. **Biological Psychiatry**. 69, 336-343. [11.4]
- (30) **Savitz, J.**, Bonne, O., Nugent, A.C., Vythilingam, M., Bogers, W., Charney, D.S., Drevets, W.C. (2011). Habenula Volume in Post-Traumatic Stress Disorder Measured with High-Resolution MRI. **Biology of Mood and Anxiety Disorders**. 1, 7.
- (31) **Savitz, J.**, Preskorn, S.H., Teague, T.K., Drevets, D.A., Yates, W., Drevets, W.C. (2012). Minocycline and Aspirin in the Treatment of Bipolar Depression: a protocol for a proof-of-concept randomized, double-blind, placebo-controlled, 2x2, clinical trial. **BMJ Open**. 2, e000643. [2.4]
- (32) **Savitz, J.**, Nugent, A.C., Cannon, D.M., Carlson, P.J., Davis, R., Rallis-Frutos, D., Fromm, S., Herscovitch, P., Drevets, W.C. (2012). Effect of arterial cannulation stress on regional cerebral blood flow in major depressive disorder. **Scientific Reports**. 2, 308. [4.3]
- (33) **Savitz, J.** and Drevets, W.C. (2013). Neuroreceptor Imaging in Depression. **Neurobiology of Disease**. 52, 49-65. [5.0].
- (34) **Savitz, J.**, Frank, M.B, Victor, T, Bebak, M, Marino, J.H, Bellgowan, P.S, McKinney, B.A, Bodurka, J, Teague, T.K., Drevets, W.C. (2013). Inflammation and neurological disease-related genes are differentially expressed in depressed patients with mood disorders and correlate with morphometric and functional imaging abnormalities. **Brain, Behavior and Immunity**. 31, 161-171. [6.0].
- (35) **Savitz, J.**, Hodgkinson, C.A., Martin-Soelch, C., Shen, P.H., Szczepanik, J., Nugent, A., Herscovitch, P., Grace, A.A., Goldman, D., Drevets, W.C. (2013). The functional DRD3 Ser9Gly

polymorphism (rs6280) is pleiotropic, affecting reward as well as movement. **PLoS ONE**. 8, e54108. [2.8].

(36) **Savitz, J.B.**, Rauch, S. L., Drevets, W.C. (2013). Clinical Application of Brain Imaging for the Diagnosis of Mood Disorders: The current state of play. **Molecular Psychiatry**. 18, 528-539. [13.3].

(37) **Savitz, J.**, Nugent, A.C., Bellgowan, P.S.F., Wright, N., Tinsley, R., Zarate, Jr., C.A., Herscovitch, P., Drevets, W.C. (2013). Catecholamine Depletion in First-Degree Relatives of Individuals with Mood Disorders: an [18F]Fluorodeoxyglucose Positron Emission Tomography Study. **NeuroImage: Clinical**. 2, 341-355. [4.3].

(38) **Savitz, J.**, Hodgkinson, C.A., Martin-Soelch, C., Shen, P.H., Szczepanik, J., Nugent, A., Herscovitch, P., Grace, A.A., Goldman, D., Drevets, W.C. (2013). DRD2/ANKK1 Taq1A polymorphism (rs1800497) has opposing effects on D2/3 receptor binding in healthy controls and patients with major depressive disorder. **International Journal of Neuropsychopharmacology**. 16, 2095-2101. [4.7].

(39). **Savitz, J.B.**, Price, J.L., Drevets, W.C. (2014). Neuropathological and Neuromorphometric Abnormalities in Bipolar Disorder: View from the Medial Prefrontal Cortical Network. **Neuroscience and Biobehavioral Reviews**. 42C, 132-147. [8.3].

(40). * **Savitz, J.**, Drevets, W.C., Smith, C.M., Victor, T.A., Wurfel, B.E., Bellgowan, P.S.F., Bodurka, J., Teague, T.K., Dantzer, R. (2015). Putative Neuroprotective and Neurotoxic Kynurenine Pathway Metabolites are Associated with Hippocampal and Amygdalar Volumes in Subjects with Major Depressive Disorder. **Neuropsychopharmacology**. 40, 463-471. [6.4].

(41). **Savitz, J.**, Dantzer, R., Wurfel, B.E., Victor, T.A., Ford, B.N., Bodurka, J., Bellgowan, P.S.F., Teague, T.K., Drevets, W.C. (2015). Neuroprotective kynurenine metabolite indices are abnormally reduced and positively associated with hippocampal volume in bipolar disorder. **Psychoneuroendocrinology**. 52, 200-211. [4.8].

(42). **Savitz, J.**, Drevets, W.C., Bellgowan, P.S.F., Wurfel, B.E., Ford, B.N., Victor, T.A., Teague, T.K., Dantzer, R. (2015). Reduction of kynurenic acid to quinolinic acid ratio in the remitted phase of major depressive disorder. **Brain Behavior and Immunity**. 46, 55-59. [6.0].

(43). **Savitz, J.**, Dantzer, R., Meier, T.B., Wurfel, B.E., Victor, T.A., McIntosh, S.A., Ford, B.N., Morris, H.M., Bodurka, J., Teague, T.K., Drevets, W.C. (2015). Activation of the kynurenine pathway is associated with striatal volume in major depressive disorder. **Psychoneuroendocrinology**. 62, 54-58. [4.8].

(44). Meier, T.B., Drevets, W.C., Wurfel, B.E., Ford, B.N., Morris, H.M., Victor, T.A., Bodurka, J., Teague, T.K., Dantzer, R., **Savitz, J.** (2016). Relationship between neurotoxic kynurenine metabolites and reductions in right medial prefrontal cortical thickness in major depressive disorder. **Brain Behavior and Immunity**. 53, 39-48. [6.0].

- (45). Young, K.D., Drevets, W.C., Dantzer, R., Teague, T.K., Bodurka, J., **Savitz, J.** (2016). Kynurenine Pathway Metabolites are Associated with Hippocampal Activity during Autobiographical Memory Recall in Patients with Depression. **Brain Behavior and Immunity**. 56, 335-342. [6.0].
- (46). Mechawar, N. and **Savitz, J.** (2016). Neuropathology of Mood Disorders: Do we see the stigmata of inflammation? **Translational Psychiatry**. 6, e946. [4.7].
- (47). Victor, T.A., Drevets, W.C., Misaki, M., Bodurka, J., **Savitz, J.** (2017). Sex Differences in Neural Responses to Subliminal Sad and Happy Faces in Healthy Individuals: Implications for Depression. **Journal of Neuroscience Research**. 95, 703-710. [2.5].
- (48). Meier, M.B., Lancaster, M.A., Mayer, A.R., Teague, T.K., **Savitz, J.** (2017). Abnormalities in functional connectivity in collegiate football athletes with and without a concussion history: implications and role of neuroactive kynurenine pathway metabolites. **Journal of Neurotrauma**. 34, 824-837. [5.2].
- (49). Wurfel, B.E., Drevets, W.C., Bliss, S.A., McMillin, J.R., Suzuki, H., Ford, B.N., Morris, H.M., Teague, T.K., Dantzer, R., **Savitz, J.** (2017). Serum Kynurenic Acid is Reduced in Affective Psychosis. **Translational Psychiatry**. 7, e1115. [4.7].
- (50). Suzuki, H., **Savitz, J.** (*joint first authors*), Teague, T.K., Gandhapudi, S.K., Tan, C., Misaki, M., McKinney, B.A., Irwin, M.R., Drevets, W.C., Bodurka, J. (2017). Altered Populations of Natural Killer Cells, Cytotoxic T Lymphocytes, and Regulatory T Cells in Major Depressive Disorder: Association with Sleep Disturbance. **Brain, Behavior, and Immunity**. 66, 193-200. [6.0].
- (51). Meier, T.B., Drevets, W.C., Teague, T.K., Wurfel, B.E., Mueller, S.C., Bodurka, J., Dantzer, R., **Savitz, J.** (2018). Kynurenic Acid is Reduced in Females and Oral Contraceptive Users: Implications for Depression. **Brain, Behavior, and Immunity**. 67, 59-64. [6.0].
- (52). **Savitz J**, Teague T.K., Misaki M., Macaluso M., Wurfel B.E., Meyer M., Drevets D., Yates W., Gleason O., Drevets W.C., Preskorn S.H. (2018). Treatment of Bipolar Depression with Minocycline and/or Aspirin: An adaptive, 2 X 2 double-blind, randomized, placebo-controlled, phase IIA clinical trial. **Translational Psychiatry**. In press. [4.7].
- (53). **Savitz J.** and Harrison N.A. (2018). Interoception and Inflammation in Psychiatric Disorders. **Biological Psychiatry: Cognitive Neuroscience and Neuroimaging**. In press.

OTHER PEER-REVIEWED PUBLICATIONS

- (1) Stein, D.J., Newman, T.K., **Savitz, J.**, Ramesar, R. (2006). Warriors versus Worriers: The Role of COMT Gene Variants. **CNS Spectrums**. 11, 745-748. [3.6]
- (2) Stein, D.J., Daniels, W., **Savitz, J.**, Harvey, B.H. (2008). Brain-Derived Neurotrophic Factor: The Neurotrophin Hypothesis of Psychopathology. **CNS Spectrums**. 13, 945-949. [3.6]
- (3) Cannon, D.M., Klaver, J.K., Gandhi, S.K., Solorio, G., Peck, S.A., Erickson, K., **Savitz, J.**, Akula, N., Eckelman, W.C., Furey, M.L., Sahakian, B.J., McMahon, F.J., Drevets, W.C. (2011). Genetic

variation in cholinergic muscarinic 2 receptor gene modulates M2 receptor binding in vivo and accounts for reduced binding in bipolar disorder. **Molecular Psychiatry.** 16, 407-418. [13.2]

(4) * Stein, J., Medland, S.E., Vasquez, A.A., Hibar, D.P., Senstad, R.E., Winkler, A.M., Toro, R., Appel, K., Bartecek, R., Bergmann, O., Bernard, M., Brown, A.A., Cannon, D.M., Chakravarty, M., Christoforou, A., Domin, M., Grimm, O., Hollinshead, M., Holmes, A.J., Homuth, G., Hottenga, J.J., Langan, C., Lopez, L.M., Hansell, N.K., Hwang, K.S., Kim, S., Laje, G., Lee, P.H., Liu, X., Loth, E., Lourdasamy, A., Maniega, S.M., Mattingsdal, M., Mohnke, S., Nho, K., Nugent, A.C., o'Brien, C., Pappmeyer, M., Pütz, B., Ramasamy, A., Rasmussen, J., Rijpkema, M., Risacher, S.L., Roddey, J.C., Rose, E.J., Ryten, M., Shen, L., Sprooten, E., Strengman, E., Teumer, A., Trabzuni, D., Turner, J., van Eijk, K., van Erp, T.G.M., van Tol, M.J., Wittfeld, K., Wolf, C., Woudstra, S., Aleman, A., Alhusaini, S., Almasry, L., Binder, E.B., Brohawn, D.G., Cantor, R.M., Carless, M.A., Corvin, A., Czisch, M., Curran, J.E., Davies, G., de Almeida, M.A.A., Delanty, N., Depondt, C., Duggirala, R., Dyer, T.D., Erk, S., Fagerness, J., Fox, P.T., Freimer, N.B., Gill, M., Göring, H.H.H., Hagler, D.J., Hoehn, D., Holsboer, F., Hoogman, M., Hosten, N., Jahanshad, N., Johnson, M.P., Kasperaviciute, D., Kent Jr., J.W., Kochunov, P., Lancaster, J.L., Lawrie, S.M., Liewald, D.C., Mandl, R., Matarin, M., Mattheisen, M., Meisenzahl, E., Melle, I., Moses, E.K., Mühleisen, T.W., Nauck, M., Nöthen, M.M., Olvera, R.L., Pandolfo, M., Pike, G.B., Puls, R., Reinvang, I., Rentería, M.E., Rietschel, M., Roffman, J.L., Royle, N.A., Rujescu, D., **Savitz, J.**, Schnack, H.G., Schnell, K., Seiferth, N., Smith, C., Steen, V.M., Valdés Hernández, M.C., Van den Heuvel, M., van der Wee, N.J., Van Haren, N.E.M., Veltman, J.A., Völzke, H., Walker, R., Westlye, L.R., Whelan, C.D., Agartz, I., Boomsma, D.I., Cavalleri, G.I., Dale, A.M., Djurovic, S., Drevets, W.C., Hagoort, P., Hall, J., Heinz, A., Jack Jr, C.R., Foroud, T.M., le Hellard, S., Macciardi, F., Montgomery, G.W., Poline, J.B., Porteous, D.J., Sisodiya, S.M., Starr, J.M., Sussmann, J., Toga, A.L., Veltman, D.J., Walter, H., Weiner, M.W., the Alzheimer's disease neuroimaging Initiative (ADNI), ePIgen consortium, ImAgen consortium, Saguenay Youth study group (sYs) Bis, J.C., Ikram, M.A., Smith, A.V., Gudnason, V., Tzourio, C., Vernooij, M.W., Launer, L.J., Decarli, C., Seshadri, S., for the CHARGE consortium, Andreassen, O.A., Apostolova, L.G., Bastin, M.E., Blangero, J., Brunner, H.G., Buckner, R.L., Cichon, S., Coppola, G., de Zubicaray, G.I., Deary, I.J., Donohoe, G., de Geus, E.J.C., Espeseth, T., Fernández, G., Glahn, D.C., Grabe, H.J., Hardy, J., Pol, H.E.A., Jenkinson, M., Kahn, R.S., McDonald, C., McIntosh, A.M., McMahon, F.J., McMahon, K.L., Meyer-Lindenberg, A., Morris, D.W., Müller-Myhsok, B., Nichols, T.E., Ophoff, R.A., Paus, T., Pausova, Z., Penninx, B.W., Potkin, S.G., Sämann, P.G., Saykin, A.J., Schumann, G., Smoller, J.W., Wardlaw, J.M., Weale, M.E., Martin, N.G., Franke, B., Wright, M.J., Thompson, P.M., for the Enhancing Neuro Imaging genetics through meta-Analysis (ENIGMA) consortium. (2012). Identification of common variants associated with human hippocampal and intracranial volumes. **Nature Genetics.** 44, 552-561. [28.0].

(5) Bis JC, DeCarli C, Smith AV, van der Lijn F, Crivello F, Fornage M, Debette S, Shulman JM, Schmidt H, Srikanth V, Schuur M, Yu L, Choi SH, Sigurdsson S, Verhaaren BF, DeStefano AL, Lambert JC, Jack CR Jr, Struchalin M, Stankovich J, Ibrahim-Verbaas CA, Fleischman D, Zijdenbos A, den Heijer T, Mazoyer B, Coker LH, Enzinger C, Danoy P, Amin N, Arfanakis K, van Buchem MA, de Bruijn RF, Beiser A, Dufouil C, Huang J, Cavalieri M, Thomson R, Niessen WJ, Chibnik LB, Gislason GK, Hofman A, Pikula A, Amouyel P, Freeman KB, Phan TG, Oostra BA, Stein JL, Medland SE, Vasquez AA, Hibar DP, Wright MJ, Franke B, Martin NG, Thompson PM; Enhancing Neuro Imaging Genetics through Meta-Analysis Consortium (incl. **Savitz, J.**), Nalls MA, Uitterlinden AG, Au R, Elbaz A, Beare RJ, van Swieten JC, Lopez OL, Harris TB, Chouraki V, Breteler MM, De Jager PL, Becker JT,

Vernooij MW, Knopman D, Fazekas F, Wolf PA, van der Lugt A, Gudnason V, Longstreth WT Jr, Brown MA, Bennett DA, van Duijn CM, Mosley TH, Schmidt R, Tzourio C, Launer LJ, Ikram MA, Seshadri S; Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. (2012). Common variants at 12q14 and 12q24 are associated with hippocampal volume. **Nature Genetics**. 44, 545-551. [28.0].

(6) Pandey, A., Davis, N.A., White, B.C., Pajewski, N.M., **Savitz, J.**, Drevets, W.C., McKinney, B.A. (2012). Epistasis network centrality analysis yields pathway replication across two GWAS cohorts for bipolar disorder. **Translational Psychiatry**. 2, e154. [4.7].

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- (13). Misaki, M., Suzuki, H., **Savitz, J.**, Drevets, W., Bodurka, J. (2016). Individual Variations in Nucleus Accumbens Responses Associated with Major Depressive Disorder Symptoms. **Scientific Reports**. 6, 21227. [4.3].
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- abnormalities in bipolar disorder: An MRI analysis of 6,503 individuals from the ENIGMA-Bipolar Disorder Working Group. **Molecular Psychiatry**. In press. [13.2].
- (15). Le, T.T., Simmons, W.K., Misaki, M., Bodurka, J., White, B.C., **Savitz, J.**, McKinney, B.A. (2017). Differential privacy-based evaporative cooling feature selection and classification with relief-F and random forests. **Bioinformatics**. 15, 2906-2913. [7.3].
- (16). Cho, H.J., **Savitz, J.**, Dantzer, R., Teague, T.K., Drevets, W.C., Irwin, M.R. Sleep Disturbance and Kynurenine Metabolism in Depression. **Journal of Psychosomatic Research**. 99, 1-7. [2.8].
- (17). He, H., Sui, J., Du, Y., Yu, Q., Dongdong, L., Drevets, W.C., **Savitz, J.B.**, Yang, J., Victor, T.A., Calhoun, V.D. (2017). Co-altered Functional Networks and Brain Structure in Unmedicated Patients with Bipolar and Major Depressive Disorders. **Brain Structure and Function**. 222, 4051-4064. [4.7].
- (18). Victor, T.A., Khalsa, S.S., Simmons, W.K., Feinstein, J.S., **Savitz, J.**, Aupperle, R.L., Yeh, H., Bodurka, J., Paulus, M.P. (2018). The Tulsa 1000: A naturalistic study protocol for multi-level assessment and outcome prediction in a large psychiatric sample. **BMJ Open**. In press. [2.4].
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BOOK CHAPTERS

- (1) **Savitz, J.** and Drevets, W.C. (2009). Neuroimaging Studies of Bipolar Depression: Therapeutic Implications. In: **Bipolar Depression: Molecular Neurobiology, Clinical Diagnosis and Pharmacotherapy**. Manji, H.K. and Zarate, Jr., C.A. (Eds). Basel: Birkhauser, Inc. pp. 117-144.
- (2) **Savitz, J.B.** and Drevets, W.C. (2009). Brain Circuits in Major Depressive Disorder and Bipolar Disorder. In: **Kaplan and Sadock's Comprehensive Textbook of Psychiatry (Ninth Edition)**. Sadock, B.J., Sadock, V.A., Ruiz, P. (Eds). Baltimore: Lippincott Williams & Wilkins. pp. 1675-1686.
- (3) **Savitz, J.** and Drevets W.C. (2010). Neuroimaging and Neuropathological Findings in Bipolar Disorder. In: **Behavioral Neurobiology of Bipolar Disorder and its Treatment**. Manji, H.K. and Zarate, C. (Eds). Springer-Verlag. pp. 202-225.

- (4). **Savitz, J.**, Simpson, J.R., Drevets, W.C. (2012). Neuroimaging in Affective Disorders: Applications in Clinical Research and Forensic Psychiatry. In Simpson J.R., (Ed.), **Neuroimaging in Forensic Psychiatry: From the Clinic to the Courtroom**. Ealing, UK: John Wiley & Sons Ltd.
- (5). **Savitz, J.**, Morris, H.M., Drevets, W.C. (2016). Neuroimaging Studies of Bipolar Depression: Therapeutic Implications. In: **Bipolar Depression: Molecular Neurobiology, Clinical Diagnosis and Pharmacotherapy (Second Edition)**. Manji, H.K. and Zarate, Jr., C.A. (Eds). Basel: Birkhauser, Inc. In press.
- (6). **Savitz, J.** (2016). Role of kynurenine metabolism pathway activation in major depressive disorders. In: **Inflammation-Associated Depression: Evidence, Mechanisms, and Clinical Implications**. R. Dantzer, L. Capuron (Eds). Springer-Verlag. In press.
- (7). Macaluso M., Krams M., **Savitz, J.**, Drevets, W.C., Preskorn S.H. (2017). Phase I Trials: From Traditional to Newer Approaches. In: **Translational Medicine in CNS Drug Development Handbook**. Nomikos, G. (Ed). Amsterdam: Elsevier. In Press.
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SELECTED CONFERENCE ABSTRACTS/POSTERS

- (1) **Savitz, J.**, van der Merwe, L., Stein, D.J., Solms, M., Ramesar, R. (2008). Bipolar I patients with and without a history of psychosis are most clearly differentiated by degree of working memory impairment. Annual Conference of the **Society of Biological Psychiatry (SOBP)**. Washington, DC.
- (2) **Savitz, J.**, Neumeister, A., Nugent, A., Bogers, W., Goldman, D., Drevets, W. (2008). Subgenual prefrontal cortex volume in affective illness: The impact of the serotonin transporter gene length polymorphism. Annual Conference of the **Society of Biological Psychiatry (SOBP)**. Washington, DC.
- (3) **Savitz, J.**, Drevets, W., Nugent, A., Bogers, W., Solomon, G., Wright, N., Bonne, O. (2008). Increased left subgenual prefrontal cortex and decreased right amygdala volumes in post-traumatic stress disorder. Annual conference of the **Society for Neuroscience**. Washington, DC.
- (4) **Savitz, J.**, Nugent, A., Bogers, W., Liu, A., Sills, R., Bain, E., Price, J., Zarate, C., Manji, H., Cannon, D., Marrett, S., Charney, D., Drevets, W. (2008). Amygdala volume in bipolar disorder assessed using high resolution 3T MRI: The impact of medication. Annual conference of the **American College of Neuropsychopharmacology (ACNP)**. Scottsdale, AZ.
- (5) **Savitz, J.**, Drevets, W., Bogers, W., Wright, N., Luckenbaugh, D., Nugent, A., Bonne, O. (2009). Increased subgenual anterior cingulate and infralimbic cortex volume in PTSD. Annual conference of the **Organization of Human Brain Mapping (OHBM)**. San Francisco, CA.
- (6) **Savitz, J.**, Nugent, A., Cannon, D., Carlson, P., Neumeister, A., Davis, R., Tinsley, R., Voak, D., Wright, N., Fromm, S., Herscovitch, P., Drevets, W. (2009). The effect of pain and stress on regional cerebral blood flow in patients with major depressive disorder and healthy controls: an ^{15}O - H_2O PET

study. Annual conference of the **American College of Neuropsychopharmacology (ACNP)**. Hollywood, FL.

(7). **Savitz, J.**, Liu, X., Neumeister, A., Nugent, A.C., Cannon, D.M., Akula, N., Bogers, W., Zarate, Jr., C.A., Charney, D.S., McMahon, F.J., Drevets, W.C. (2010). Infralimbic and Subgenual Anterior Cingulate Cortex Volumes in Healthy and Affectively Ill Carriers of the *Met* Allele of the BDNF Val66Met Variant. Annual conference of the **American College of Neuropsychopharmacology (ACNP)**. Miami, FL.

(8). **Savitz, J.**, Nugent, A., Neumeister, A., Bogers, W., Price, J., Cannon, D., Drevets, W. (2011). Persistent remission of unmedicated patients with major depressive disorder associated with larger subcallosal gyrus volumes. **Biological Psychiatry**. 69, 174S.

(9). **Savitz, J.**, Frank, B., McKinney, B., Teague, T.K., Drevets, W.C. (2012). Increased PBMC expression of inflammation and neurological disease-associated genes correlates with anhedonia, the BOLD response to masked happy faces and subgenual anterior cingulate cortex volume in patients with primary mood disorders. Annual conference of the **Psychoneuroimmunology Research Society (PNIRS)**. San Diego, CA.

(10). Misaki, M., **Savitz, J.**, Zotev, V., Phillips, R., Yuan, H., Young, K.D., Drevets, W.C., Bodurka, J. (2013). Novel combination of T1- and T2-weighted MRI images forenhancing structural contrast Annual conference of the **International Society for Magnetic Resonance in Medicine**. Salt Lake City, UT.

(11). **Savitz, J.**, Tan, C., Taylor, A.A., Drevets, W.C., Teague, T.K. (2013). Abnormalities in regulatory T cells and natural killer cells in major depressive disorder. Annual conference of the **American Association of Immunologists (AAI)**. Honolulu, HI.

(12). Victor, T., Bellgowan, P., Bodurka, J., Drevets, W., **Savitz, J.** (2013). BOLD Response to Masked Sad and Happy Faces in Healthy Subjects with a Family-History of Depression. Annual conference of the **Organization of Human Brain Mapping (OHBM)**. Seattle, WA.

(13). Victor, T., **Savitz, J.**, Bellgowan, P., Bodurka, J., Drevets, W. (2013). Neuroimaging Correlates of Implicit Emotional Processing Biases in Major Depressive Disorder. Annual conference of the **Organization of Human Brain Mapping**. Seattle, WA.

(14). **Savitz, J.**, Drevets, W.C., Victor, T.A., Bodurka, J., Teague T. K., Dantzer, R. (2013). Neuroprotective Kynurenine Pathway Metabolites are Associated with Larger Hippocampal and Amygdalar Volumes in Patients with Major Depressive Disorder. Annual conference of the **American College of Neuropsychopharmacology**. Hollywood, FL.

(15). He, H., Sui, J., Yu, Q., Du, Y., Vergara, V., Victor, T., Drevets, W., **Savitz, J.**, Calhoun, V.D. (2014). Analysis of functional network connectivity in bipolar and unipolar depression patients. Annual conference of the **Organization of Human Brain Mapping (OHBM)**. Hamburg, Germany.

- (16). He, H., Sui, J., Yu, Q., Du, Y., Vergara, V., Victor, T., Drevets, W., **Savitz, J.**, Calhoun, V.D. (2014). Fusion of FNC and structural MRI: an application to bipolar and unipolar depression disorders. Annual conference of the **Organization of Human Brain Mapping (OHBM)**. Hamburg, Germany.
- (17). **Savitz, J.**, Drevets, W.C., Victor, T.A., Bodurka, J., Teague T. K., Dantzer, R. (2014). Neuroprotective and neurotoxic kynurenine pathway metabolites are associated with hippocampal and amygdalar volumes in depression. **Bipolar Disorders**. 16, 41.
- (18). **Savitz, J.**, Drevets, W.C., Victor, T.A., Smith, C.A., Wurfel, B., Bellgowan, P.S.F., Bodurka, J., Teague T. K., Dantzer, R. (2014). CCL2 is associated with hippocampal and amygdala volume in females with major depressive disorder. Biannual conference of the **International College of Neuropsychopharmacology (CINP)**. Vancouver, Canada.
- (19). Wurfel, B., Drevets, W.C., Bliss, S.A., Teague, T.K., McMillin, J.R., Ford, B.N., Victor, T.A., Bodurka, J., Dantzer, R., **Savitz, J.** (2015). Kynurenic acid to quinolinic acid ratio is decreased in affective psychosis. Annual Conference of the **American Psychiatric Association (APA)**. Toronto, Canada.
- (20). Wurfel, B., Drevets, W.C., Bliss, S.A., Teague, T.K., McMillin, J.R., Ford, B.N., Victor, T.A., Bodurka, J., Dantzer, R., **Savitz, J.** (2015). Kynurenic acid to quinolinic acid ratio in serum is decreased in affective psychosis. Annual Conference of the **Society of Biological Psychiatry (SOBP)**. Toronto, Canada.
- (21). Victor, T.A., **Savitz, J.**, Suzuki, H., Misaki, M., Drevets, W.C., Bodurka, J. (2015). Anterior cingulate and amygdala response to subliminal positive stimuli in major depressive disorder. Annual Conference of the **Organization of Human Brain Mapping (OHBM)**. Honolulu, HI.
- (22). **Savitz, J.**, Victor, T., Teague, T.K., Ford, B., Bodurka, J., Dantzer, R., Drevets, W. (2015). Emotional processing biases may be accentuated in depressed subjects with elevated CRP levels. Thematic meeting: “Stress, inflammation and depression: focus on novel psychotropic drug targets”. **International College of Neuropsychopharmacology (CINP)**. Dublin, Ireland.
- (23). **Savitz, J.B.**, Teague, T.K., Wurfel, B.E., Meyer, M., Macaluso, M., Drevets, D., Yates, W., Gleason, O., Drevets, W.C., Preskorn, S.H. (2015). Treatment of bipolar depression with minocycline and/or aspirin: an adaptive, double-blind, randomized, placebo-controlled trial. Annual Conference of the **American College of Neuropsychopharmacology (ACNP)**. Hollywood, FL.
- (24). Meier, T., Lancaster, M., Mayer, A., Teague, T.K., **Savitz, J.** (2016). Altered resting state functional connectivity in football players is associated with neuroactive kynurenine pathway metabolites. Annual conference of the **National Neurotrauma Society (NNS)**. Lexington, KY.
- (25). Cho, H.J., **Savitz, J.**, Dantzer, R., Teague, T.K., Drevets, W.C., Irwin, M.R. (2016). Sleep Disturbance and Kynurenine Metabolism in a Group of Currently Depressed, Previously Depressed, and Never Depressed Subjects. Annual conference of the **Psychoneuroimmunology Research Society (PNIRS)**. Brighton, UK.

- (26). Misaki, M., **Savitz, J.**, Suzuki, H., McKinney, B., Drevets, W., Bodurka, J. (2017). Low accumbens BOLD response to anticipated reward or loss associated with depression during inflammation. Annual Conference of the **Organization of Human Brain Mapping (OHBM)**. Vancouver, Canada.
- (27). Ford, B.N., Yolken, R.H., Dickerson, F.B., Teague, T.K., Irwin, M.R., Paulus, M.P., **Savitz, J.** (2017). Increased Measles Seronegativity in Adults with Major Depressive Disorder. Annual conference of the **Psychoneuroimmunology Research Society (PNIRS)**. Galveston, TX.
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SELECTED TALKS

- (1). **Savitz, J.B.** and Jansen, P. Symptom Domains in Attention Deficit Hyperactivity Disorder (ADHD) neuropsychological Task Performance. **South African Association of Learning and Educational Disabilities (SAALED)** annual conference. Cape Town, 15th September, 2000.
- (2). **Savitz, J.** Genetics of Bipolar Disorder. **Laboratory of Neurogenetics (LNG), NIAAA**. Rockville, MD, February, 2005.
- (3). **Savitz, J.**, Drevets, W., Nugent, A., Bogers, W., Solomon, G., Wright, N., Bonne, O. Increased left subgenual prefrontal cortex and decreased right amygdala volumes in post-traumatic stress disorder. **Society for Neuroscience (SfN)** annual conference. Washington DC, 18th November, 2008.
- (4). **Savitz, J.** The Immunological Basis of Mood Disorders. Department of Psychiatry, Grand Rounds. **University of Oklahoma College of Medicine**, Tulsa, OK. 1st May, 2013.
- (5). **Savitz, J.** The Immunological Basis of Mood Disorders. Department of Psychiatry, Grand Rounds. **University of Kansas School of Medicine**, Wichita, KS. 10th October, 2013.
- (6). **Savitz, J.** Immune function in depression: association with neuroimaging abnormalities. Department of Psychology Colloquium Series. **University of Alabama, Birmingham**, AL. 22nd January 2014.
- (7). **Savitz, J.** Immunological and Neuroimaging Abnormalities in Depression: a unifying hypothesis. Department of Psychiatry, Grand Rounds. **University of Cincinnati**, Cincinnati, OH. 19th February 2014.
- (8). **Savitz, J.** Neuroprotective and neurotoxic kynurenine metabolites are associated with hippocampal and amygdalar volumes in depression. **International Society of Bipolar Disorders (ISBD)** annual conference. Seoul, South Korea. 20th March, 2014.
- (9). **Savitz, J.** Depression and "inflammation": what can we see with neuroimaging? Department of Symptom Research, **University of Texas, M.D. Anderson Cancer Center**. 25th March, 2014.
- (10). **Savitz, J.** Depression and "inflammation": what can we see with neuroimaging? Department of Psychiatry, **University of Pittsburgh**, Pittsburgh, PA. 9th April, 2014.

- (11). **Savitz, J.** Kynurenine pathway imbalance in mood disorders: association with neuromorphometric abnormalities. Department of Psychiatry. **University of Texas Health Sciences Center**, Houston, TX. 29th April, 2014.
- (12). **Savitz, J.** Association between kynurenine-pathway metabolites and gray matter volumes of the hippocampus and amygdala in patients with bipolar disorder. **American Society of Clinical Psychopharmacology** annual meeting. Hollywood, FL. 17th June, 2014.
- (13). **Savitz, J.** The tryptophan-kynurenine metabolic pathway in mood disorders: what can we see with neuroimaging? **International Society for Tryptophan Research (ISTRY)** conference. Grand Rapids, MI. 18th September, 2015.
- (14). **Savitz, J.** Kynurenine pathway, immune system, and brain imaging in affective and psychotic disorders. **Stanley Medical Research Foundation** annual meeting. Baltimore, MD. 2nd December, 2015.
- (15). **Savitz, J.** Relationship between microglial/macrophage-derived neurotoxic kynurenine metabolites and hippocampal structure and function in depression. **Society of Biological Psychiatry (SOBP)** annual conference. Atlanta, GA. 12th May, 2016.
- (16). **Savitz, J.** Do neuroactive kynurenine metabolites affect brain structure and function in depression? **Psychoneuroimmunology Research Society (PNIRS)** annual conference. Brighton, England. 9th June, 2016.
- (17). **Savitz, J.** Treatment of bipolar disorder with minocycline and/or aspirin: an adaptive, double-blind, randomized, placebo-controlled clinical trial (NCT01429272). **International Society of Bipolar Disorders (ISBD)** annual conference. Amsterdam, The Netherlands. 14th July, 2016.
- (18). **Savitz, J.** Relationship between neurotoxic kynurenine metabolites and hippocampal structure in bipolar disorder. **International Society of Bipolar Disorders (ISBD)** annual conference. Amsterdam, The Netherlands. 14th July, 2016.
- (19). **Savitz, J.** Relationship between neurotoxic kynurenine metabolites and hippocampal structure and function in depression. **SALSI Neuroscience Symposium: Translational Neuroimmunology**. San Antonio, TX., 22nd July, 2016.
- (20). **Savitz, J.** Depression and Inflammation: Etiology, Mechanism, and Treatment. Department of Psychiatry, Grand Rounds. **University of Arkansas Medical School**. Little Rock, AR. January, 12th 2017.
- (21). **Savitz, J.** Neuroimmunology of Depression. **Oklahoma Center for Neuroscience, OUHSC**. Oklahoma City, OK. March 9th, 2017.
- (22). **Savitz, J.** Immune Dysregulation in Depression. **NIAAA Laboratory of Neurogenetics**. Rockville, M.D. April 10th, 2017.
- (23). **Savitz, J.** Immunophenotyping the mood disorder spectrum. **International Society of Bipolar Disorders (ISBD)** annual conference. Washington, DC. 6th May, 2017.

SERVICE

Professional Societies

Associate Member, American College of Neuropsychopharmacology (ACNP) 2013-2017
Member, Psychoneuroimmunology Research Society (PNIRS) 2016-

Editorial Work

Associate Editor of *Neuroscience Letters* 2015-

Ad Hoc Reviewer

NIH Panels: Biobehavioral Mechanisms of Emotion, Stress and Health (MESH) 2016
Biobehavioral Research Awards for Innovative New Scientists (BRAINS) 2017
National Cancer Institute Special Emphasis Panel (ZCA1 SRO-Q) 2018

Journals (selected): Acta Psychiatrica Scandinavica • American Journal of Psychiatry • Archives of General Psychiatry • Biological Psychiatry • Bipolar Disorders • Brain, Behavior and Immunity • British Journal of Psychiatry • Cerebral Cortex • Depression and Anxiety • Human Brain Mapping • International Journal of Neuropsychopharmacology • JAMA Psychiatry • Journal of Abnormal Psychology • Journal of the American Academy of Child and Adolescent Psychiatry • Journal of Neurology, Neurosurgery and Psychiatry • Journal of Psychiatry and Neuroscience • Lancet Psychiatry • Molecular Psychiatry • NeuroImage • Neuropsychology • Neuropsychologia • Neuropsychopharmacology • Neuroscience and Biobehavioral Reviews • Psychological Medicine • Psychological Review • Psychoneuroendocrinology • Psychopharmacology • Schizophrenia Research • Translational Psychiatry

• “Outstanding Reviewer” for *Brain, Behavior, and Immunity*, 2015.

Grants: Austrian Science Fund (FWF) • Chief Scientists’ Office, Scotland • Geneva University Hospitals and Faculty of Medicine Research Foundation • Health Research Board, Ireland • KU Leuven, Belgium • National Initiative Brain and Cognition, The Netherlands • National Research, Development and Innovation Office, Hungary • Ontario Mental Health Foundation, Canada • Prinses Beatrix Fonds, The Netherlands • PSI Foundation, Canada • Research Foundation – Flanders, Belgium • Swiss National Science Foundation

External Tenure Reviews: Department of Psychiatry, University of Illinois, Chicago 2017

PhD Theses (external examiner): University of Cape Town 2013

University Service:

College of Health Sciences Representative in The University of Tulsa Senate	2016-2017
Chair, Oxley College of Health Sciences Tenure Committee, The University of Tulsa	2017

Public Lectures:

- (1). The inflamed brain. **Healthy Brains for a Healthy Oklahoma Lecture Series.** Tulsa, OK, 27th October, 2016.
- (2). The inflamed brain. **Healthy Brains for a Healthy Oklahoma Lecture Series.** Tulsa, OK, 26th October, 2017.

MENTORING OF STUDENTS AND POST-DOCTORAL FELLOWS

Karin Lewis-Thomas, BA (Hons), University of Cape Town	2003
Talia Saben, BA (Hons), University of Cape Town	2003
Janine Meyer, BS (Med) (Hons), University of Cape Town	2006
Chelsey Smith, Ph.D, postdoctoral fellow, Laureate Institute for Brain Research	2013-2014
Siva Gandhapudi, Ph.D, postdoctoral fellow, The University of Oklahoma, Tulsa	2014-2015
Amritha Harikumar, undergraduate student, The University of Tulsa	2014-2015
Caroline Ibrahim, undergraduate student, TURC scholar, The University of Tulsa	2015-2016
Maria Nadeem, undergraduate student, TURC scholar, The University of Tulsa	2015-2017
Bart Ford, B.S., graduate student, Biology Department, The University of Tulsa	2015-

TEACHING

OU-TU School of Community Medicine	Tulsa, OK
Facilitator, M.D. Program, “Patients, Physicians, and Society 1”	2015-2017
University of Oklahoma College of Medicine	Oklahoma City and Tulsa, OK
Ad Hoc Lecturer	2010-2017
Neuroimmunology and Neuroinflammation course	
Genetics of Mood Disorders (Psychiatry Resident Program)	
Immunological Basis of Mood Disorders (Psychiatry Resident Program)	

National Institutes of Health

Ad Hoc Lecturer

Post-Baccalaureate Intra-Mural Training Awardees Program

Bethesda, MD

2007-2008

University of Cape Town

Tutor, MBChB (M.D.) Program

Cape Town, South Africa

2004

University of the Witwatersrand

Tutor

Statistics and Statistics and Research Methodology II, Department of Psychology

Johannesburg, South Africa

1998, 2000-2001
