

**CURRICULUM VITAE**  
**Jared William Young Ph.D. BSc (Honours)**

**PERSONAL DATA**

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**i10-index:** 117

**CURRENT EMPLOYMENT**

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2019 - present: Professor In Residence Step 3, Department of Psychiatry, University of California, San Diego.

2015 - present: Co-Director of the Neuropsychopharmacology Unit, MIRECC VISN 22, VA Research, San Diego, California.

**PREVIOUS EMPLOYMENT**

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2015 - 2019: Associate Professor In Residence, Department of Psychiatry, University of California, San Diego.

2011 – 2015: Assistant Professor, Department of Psychiatry, University of California, San Diego

2009 – 2011: Assistant Project Scientist, Department of Psychiatry, University of California, San Diego

2006 – 2009: Post Doctoral Fellow, Department of Psychiatry, University of California, San Diego with Dr. Mark A. Geyer and Dr. Dilip V. Jeste

2005 – 2006: Scientist, Organon Laboratories, Department of Psychobiology

**GRANTS AND FELLOWSHIPS**

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**Current**

National Institute of Health

Principal Investigator, NIDA R01 DA043535 “Cannabis use and the endocannabinoid system in bipolar disorder” 09/01/2017-08/31/2022

Direct: \$419,988/yr

Principal Investigator, NIDA R01DA044909 “Cross-species studies of smoking effects on cognition and neuroinflammation in HIV” 01/08/2017-31/07/2022

Direct: \$555,093/yr

Principal Investigator, NIMH UH2/UH3 MH109168 “Neurophysiological biomarkers of behavioural dimensions from cross-species paradigms” 04/01/2016-09/30-2021 in NCE

Direct: \$385,373/yr

Co-Investigator: SBIR Phase II, (Schmidle, P PI). "Continuous Bio-Sensor Monitoring to Inform Treatment of Alcohol Use Disorders".

Consultant: NIMH R01 MH121546, (Thomas, M PI), "An Adaptive Testing Platform for Optimizing RDoC Experimental Cognitive Measures": 08/14/2020 – 05/31/2025  
Direct: \$531,704

Principal Mentor: NIMH R01 Diversity Supplement for Dr. Johnny Kenton: 09/01/2020 – 08/31/2022  
Principal Investigator, NIMH R13MH126604 "Promoting Diversity, Inclusion, and Professional Development in the International Behavioral Neuroscience Society" 04/20/2021-04/19/2022  
Direct: \$20,000

Principal Investigator: NIDA R01DA051295 "Translational studies of cannabis administration, cognition, and the endocannabinoid system in HIV" 05/01/2021 – 04/30/2026  
Direct: \$691,822/yr

Principal Investigator: NIMH R01MH128869. "Immunometabolomic gene expression profiles associated with depressed mood and behavioural domains in people with HIV"  
Direct: \$499,999/yr

#### Company Grant Funding

Principal Investigator, Sunovion Pharmaceuticals "Determining the treatment efficacy of Sunovion compound for treating all aspects of bipolar disorder". 01/01/2019-12/31/2021  
Direct: \$408,000

Principal Investigator, Gilgamesh Pharmaceuticals "Effects of serotonergic agents on cognitive functioning in mice". 02/01/2020-12/31/2021  
Direct: \$213,323.12

Principal Investigator, Sunovion Pharmaceuticals "Determining the treatment efficacy of Sunovion compound for treating mania & depression behaviors-relevant to bipolar disorder". 01/01/2020-12/31/2022  
Direct: \$195,000

Principal Investigator, Heptares "Determining the impact of GPR52 compounds on treating psychiatry-relevant cognitive deficits". 01/01/2021-06/01/2023  
Direct: \$201,886.74

#### **Pending**

Principal Investigator: NIMH R01MH127192. "Delineating a parietal-anterior cingulate-claustrum circuit underlying cognitive control and attention".  
Direct: \$250,000/yr - impact score 40

#### **Completed**

Co-Investigator: NIMH R21 MH115395, (Dulawa, S PI), "Using in vivo CRISPR-Cas9 to dissect the neural circuits mediating compulsive behavior": 12/15/17-11/30/19.

Principal Investigator, Academic Senate "Delineating behavioral outcomes and neural mechanisms arising from winter-like photoperiod gestation": 05/01/2017-04/30/2018  
Direct: \$10,000/yr

Principal Investigator, NIMH R01 MH104344 "A model organism for brain circuitry and behavioral switches occurring in bipolar disorder" 07/01/2014-06/30/2018  
Direct: \$273,004/yr

- Co-Investigator (temporary PI also), NIMH R01 MH103421 "Oxytocin as a therapeutic target for schizophrenia" 04/01/2016-03/31/2020
- Co-Investigator: NIDA P50 DA026506, (Grant I PI), "Translational Methamphetamine AIDS Research Center (TMARC)" 06/01/2014-05/30/2019
- Co-Investigator: NIMH R01 MH059803, (Swerdlow, N PI), "Dopaminergic substrates of startle gating across species": 07/01/2014-06/30/2019
- Consultant support: VA Merit Review, (Horan, W PI), "Mechanisms of negative symptoms in veterans with schizophrenia": 10/01/2012-09/30/2017
- Principal Investigator: NARSAD Young Investigator Award "Speeding 'eureka': Investigating the alpha 7 nicotinic receptor as a target for pharmacological augmentation of cognitive remediation in schizophrenia": 01/29/2013 - 01/30/2015
- Principal Investigator: NIMH R21 MH101579-01, "Alpha 7 nicotinic receptor-mediated enhancement of reinforcement learning" 04/01/2014-03/31/2016
- Co-Investigator: NIMH R01 MH071916-06, (Geyer MA, Perry W PIs), "Inhibitory deficits in human and animal models of bipolar disorder": 06/01/2010-05/31/2015
- Co-Investigator: NIH R01 MH2010-0975, (Zhou, X PI), "Sp4 pathway in the modulation of sensorimotor gating and memory": 07/01/2010-06/31/2015
- NIMH R21 GRANT2010-0843, "Visuospatial priming (VSP) in rats: Development of an animal model for Tourette Syndrome" 07/01/2010-06/30/2013.
- Lundbeck Ltd: "Assessing the effects of asenapine on rodent models of mania" 01/01/2012-12/31/2014
- Lundbeck Ltd: "Assessing the efficacy of acute and chronic Brexpiprazole at attenuating the mania-like exploratory profile of dopamine transporter knockdown (KD) mice in the Behavioral Pattern Monitor (BPM), in comparison with effects on wild-type (WT) mice" 05/01/2013-04/31/2014
- Mental Illness Research, Education and Clinical Center Pala Award "Using the cross-species 5-choice continuous performance test to assess vigilance and sensory integration in patients with schizophrenia": 04/01/2012 - 03/31/2013
- OMEROS: "Assessing the efficacy of PDE inhibitors for treating an animal model of bipolar mania" 12/01/2012-11/31/2013
- Clinical and Translational Research Institute Pilot Award "Psychophysiological Effects of Nicotine Use in Schizophrenia: Parallel Human and Animal Studies": 03/01/2012 – 28/02/2013
- NIMH R21, MH00419737, "The rodent continuous performance task: Filling the vigilance translational gap": 07/01/2009-06/30/2012
- Chakra Biotech: "Behavioral phenotyping of *chagragati* mice" 05/01/2010-04/30/2012.
- NARSAD Young Investigator Award "Improving mouse sustained attention via stimulation of  $\alpha 7$  nicotinic acetylcholine receptors": 07/01/2008 - 06/30/2010.
- Clinical and Translational Research Institute Pilot Award "Neurocognitive Effects of Nicotine Use in Bipolar Disorder: Parallel Human and Animal Studies": 03/01/2011 – 28/02/2012.
- Mental Illness Research, Education and Clinical Center Pala Award "Investigating executive functioning in mice: nicotine and  $\alpha 7$  nicotinic acetylcholine receptor modulation in a Wisconsin Card Sorting Task analogue": 04/01/2008 - 03/31/2009.
- Post-Doctoral T32 Fellowship from the Stein Institute for Research on Aging: 07/01/2007-06/30/2009.
- Mental Illness Research, Education and Clinical Center Pala Grant Award, "Cognitive enhancement through stimulation of the  $\alpha 7$  nicotinic acetylcholine receptor": 04/01/2007 - 03/31/2008.

## EDUCATIONAL HISTORY

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- 2001 – 2005: Ph.D. in Psychopharmacology, Department of Neuroscience, University of Edinburgh. Thesis Title: Nicotine-induced improvement in cognition: a role for the alpha 7 nicotinic acetylcholine receptor?
- 1997 – 2001: BSc (Hons) in Psychology with Biology, University of Paisley.

## AWARDS AND HONORS

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- 2020:** Awarded Fellow status of the American College for Neuropsychopharmacology.
- 2018-2022:** President of the International Behavioral Neuroscience Society
- 2019:** Rising Star Award: Schizophrenia International Research Society
- 2019: Academic Senate Travel Award
- 2016:** Member of the American College for Neuropsychopharmacology.
- 2016: Academic Senate Travel Award
- 2015:** Joined the Scientific Council of the Behavioral Brain Research Foundation (formerly NARSAD)
- 2015:** Valedictorian for the National Center of Leadership in Academic Medicine, UCSD.
- 2014:** Inducted into the College of Fellows; International Behavioral Neuroscience Society
- 2013: Travel Award: International Congress On Schizophrenia Research
- 2012: Travel Award: Schizophrenia International Research Society
- 2010:** Award for outstanding research in non-clinical psychopharmacology: British Association for Psychopharmacology
- 2009: Travel Award: American College of Neuropsychopharmacology
- 2008:** Outstanding poster presentation in preclinical psychopharmacology: British Association of Psychopharmacology
- 2006-2008:** 'Top 10 cited paper 2006-2008 award for European Neuropsychopharmacology' for "Impaired attention is central to cognitive deficits observed in alpha 7 deficient mice".
- 2008: Travel Award: British Association of Psychopharmacology
- 2008: Travel Award: International Behavioral Neuroscience Society
- 2008: Travel Fellowship Award: Society of Biological Psychiatry
- 2008: Travel Award: European Behavioral Pharmacological Society
- 2005:** Best oral presentation award: UK Nicotinic Receptor Club Meeting, London, "Nicotine reverses the working memory deficit observed in mice over-expressing human caspase-3"
- 2003 & 2004: Travel Awards: British Association of Psychopharmacology.
- 2004: Grindley Grant Award: Experimental Psychology Society to attend Society for Neuroscience conference
- 2004: Travel Award: BRAIN to attend Society for Neuroscience conference

## PUBLICATIONS

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- 1) Cavanagh JF, Olguin S, Talledo JA, Kotz JE, Roberts BZ, Nungaray JA, Sprock J, Gregg D, Bhakta SG, Light GA, Swerdlow NR, **Young JW**, Brigman JL (Accepted). Amphetamine alters an EEG marker of reward processing in humans and mice. *Psychopharmacology*.
- 2) **Young JW**, Barback CV, Stolz LA, Groman SM, Vera DR, Hoh C, Kotta KK, Minassian A, Powell SB, Brody AL (Accepted). MicroPET evidence for a hypersensitive neuroinflammatory profile of gp120 mouse model of HIV. *Psychiatry Research: Neuroimaging*
- 3) Bhakta SG, Cavanagh JF, Talledo JA, Kotz JE, Benster L, Roberts BZ, Nungaray JA, Brigman JL, Light GA, Swerdlow NR, **Young JW** (2021). EEG reveals that dextroamphetamine improves cognitive control through multiple processes in healthy participants. *Neuropsychopharmacology*. (in press).
- 4) Roberts BZ, Minassian A, Halberstadt AL, He YV, Chatha M, Geyer MA, Grant I, **Young JW** (2021). HIV transgenic rats demonstrate impaired sensorimotor gating, but are insensitive to cannabinoid ( $\Delta 9$ -tetrahydrocannabinol)-induced deficits. *International Journal of Neuropsychopharmacology*. PMID: 34338765 [from work with a trainee]
- 5) Cavanagh JF, Gregg D, Light GA, Olguin SL, Sharp RF, Bismark AW, Bhakta SG, Swerdlow NR, Brigman JL, **Young JW** (2021). Electrophysiological biomarkers of behavioral dimensions from cross-species paradigms. *Translational Psychiatry*. 11(1): 482. PMID: 34535625
- 6) Walter TJ, Iudicello J, Rosario D, Franklin D, Tang B, **Young JW**, Perry W, Ellis R, Heaton RK, Grant I, Minassian A (2021). The relationships between HIV infection, history of methamphetamine use disorder, and soluble biomarkers in blood and cerebrospinal fluid. *Viruses*. 13(7): 1287. PMID: 34372493 [from work with a trainee]
- 7) Roberts BZ, He YV, Chatha M, Minassian A, Grant I, **Young JW** (2021). HIV transgenic rats demonstrate superior task acquisition and intact reversal learning in the within-session probabilistic reversal learning task. *Cognitive Affective Behavioral Neuroscience*. 21(6): 1207-1221. PMID: 34312815 [from work with a trainee]
- 8) Cope ZA, Kenton JA, Minassian A, Martin MV, Perry W, Bundgaard C, Arnt J, van Enkhuizen J, Geyer MA, **Young JW** (2021). Chronic antipsychotic treatment exerts limited effects on the mania-like behavior of dopamine transporter knockdown mice. *Behavioral Brain Research*. Accepted. PMID: 33577882 [from work with a trainee]
- 9) Walter TJ, Pocuca N, **Young JW**, Minassian A, Perry W (2021). The Effects of Cannabis on Cognition in Bipolar Disorder: A Systematic Review. *Psychiatry Research*. PMID: 33159510 [from work with a trainee]
- 10) Grottick AJ\*, MacQueen DL\*, Barnes SA, Carroll C, Sanabria EK, Bobba V, **Young JW** (2021). Convergent observations of MK-801-induced impairment in rat 5C-CPT performance across laboratories: Reversal with a D<sub>1</sub> but not nicotinic agonist. *Psychopharmacology*. 238(4): 979-990. PMID: 33404734. [from work with a trainee]
- 11) Kwiatkowski MA, Roberts BZ, van Enkhuizen J, Ji B, Zhou X, **Young JW** (2020). Chronic nicotine, but not suramin or resveratrol, partially remediates the mania-like profile of dopamine transporter knockdown mice. *European Neuropsychopharmacology*. 42: 75-86. PMID: 33191077. [from work with a trainee]
- 12) Walter TJ, **Young JW**, Milienne-Petiot M, Deben DS, Heaton RK, Letendre S, Grelotti DJ, Perry W, Grant I, Minassian A, TMARC (2020). Both HIV and Tat expression decrease prepulse inhibition with further impairment by methamphetamine. *Progress in Neuropsychopharmacology and Biological Psychiatry*. [from work with a trainee]

- 13) Pocuca N, Walter TJ, Minassian A, **Young JW**, Geyer MA, Perry W (2020). The effects of cannabis use on cognitive function in healthy aging: A systematic scoping review. *Archives of Clinical Neuropsychology*. PMID: 33159510 [from work with a trainee]
- 14) Pocuca N, **Young JW**, MacQueen DA, Letendre S, Heaton RK, Geyer MA, Perry W, Grant I, Minassian A (2020). Sustained attention and vigilance deficits associated with HIV and a history of methamphetamine dependence. *Drug and Alcohol Dependence*. [from work with a trainee]
- 15) Kwiatkowski MK, Cope ZA, Lavadia ML, van de Cappelle CJA, Dulcis D, **Young JW** (2020). Short-active photoperiod gestation induces psychiatry-relevant behavior in healthy mice but a resiliency to such effects are seen in mice with reduced dopamine transporter expression. *Scientific Reports*. 10(1): 10217. doi: 10.1038/s41598-020-66873-2. PMID: 32576854. [from work with a trainee]
- 16) Silverman J, **Young JW**, der Avakian A, Nithianantharajah J, Rizzo S (2020). Lost in translation: At the crossroads of face validity and translational utility of behavioral assays in animal models for the development of therapeutics. *Neuroscience Biobehavioral Reviews*. 116: 452-453. PMID: 32681939.
- 17) Cope ZA, Lavadia ML, Joosen AJM, van de Cappelle CJA, Lara JC, Huval A, Kwiatkowski MK, Picciotto MR, Mineur YS, Dulcis D, **Young JW** (2020). Converging evidence that short-active photoperiod increases acetylcholine signaling in the hippocampus. *Cognitive Affective Behavioral Neuroscience*. 20(6):1173-1183 [from work with a trainee]
- 18) **Young, JW**, Roberts, BZ, Brier, M, Swerdlow, NR (2020). Amphetamine improves rat 5-choice continuous performance test (5C-CPT) irrespective of concurrent low-dose haloperidol treatment. *Psychopharmacology*. 237(7): 1959-1972. PMID: 32318751. [from work with a trainee]
- 19) Olguin, SL, Thompson, SM, **Young, JW**, Brigman, JL (2020). Moderate prenatal alcohol exposure impairs cognitive control but not attention, on a rodent touchscreen continuous performance task. *Genes Brain & Behavior*. PMID: 32144885 [from work with a trainee]
- 20) MacQueen, DA, **Young, JW** (2020). The D2-family receptor agonist bromocriptine but not nicotine, reverses NMDA receptor antagonist-induced working memory deficits in the radial arm maze in mice. *Neurobiology of Learning and Memory*. PMID 31911198. [from work with a trainee] Thompson, SL, Welch, AC, Ho, EV, Bessa, JM, Portugal-Nunes, C, Morais, M, **Young, JW**, Knowles, JA, Dulawa, SC (2019). Btd3 expression regulates compulsive-like and exploratory behaviors in mice. *Translational Psychiatry*. 9(1):222. PMID 31501410 [from work with a trainee]
- 21) Slattery, DA, **Young, JW**, (2019). Current status of the neurobiology of aggression and impulsivity. *Neuropharmacology*. 156. PMID: 31176758
- 22) **Young, JW\***, Geyer, MA, Halberstadt, AL, van Enkhuizen, J, Minassian, A, Khan, A, Perry, W, Eyler, LT (2020). Convergent neural substrates of inattention in bipolar disorder patients and dopamine transporter-deficient mice using the 5-choice CPT. *Bipolar disorder*. 22(1): 46-58 PMID: 31025493 \*=Corresponding Author
- 23) Roberts, BZ, **Young, JW\***, Cope, ZA, Hi, Y, Shilling, P, Feifel, D (2019). Oxytocin Improves Probabilistic Reversal Learning but not Effortful Motivation in Brown Norway Rats. *Neuropharmacology*. \*=Corresponding Author PMID: 30844406 [from work with a trainee]
- 24) **Young, JW\***, Cope, ZA\*, Romoli, B, Schrurs, E, Joosen, A, van Enkhuizen, J, Sharp RF, Dulcis, D (2019). Evidence for light-entrainment-induced switching between depression- & mania-relevant behaviors in mice. *Neuropsychopharmacology*. \*Co-first authorship. PMID: 30787425 [from work with a trainee]

- 25) **Young, JW**, Einat H, (2019). The importance and depth of reproducibility in rodent models of psychiatric diseases. *Pharmacology Biochemistry & Behavior*. 178. 1-2. PMID: 30777154.
- 26) Strauss GP, Ahmed, OA, **Young, JW**, Kirkpatrick, B (2018). Reconsidering the latent structure of negative symptoms in schizophrenia: A review of evidence supporting the 5 consensus domains. *Schizophrenia Bulletin*. *Epub ahead of print*. PMID: 30541136.
- 27) Milienne-Petiot, M, Higa, KK, Grim, A, Deben, D, Groenink, L, Twamley, EW, Geyer, MA, **Young, JW** (2018). Nicotine improves probabilistic reward learning in wildtype but not alpha7 nAChR null mutants, yet alpha7 nAChR agonists do not improve probabilistic learning. *European Neuropsychopharmacology*. Accepted. PMID: 30213668 [from work with a trainee]
- 28) MacQueen, DA, Minassian, A, Kenton, JA, Geyer, MA, Perry, W, Brigman, JL, **Young, JW**, (2018). Amphetamine improves mouse and human attention in the 5-choice continuous performance test (5C-CPT). *Neuropharmacology*. 138: 87-96. PMID: 29859849 [from work with a trainee]
- 29) **Young, JW\***, Cope, ZA\*, Romoli, B, Schrurs, E, Joosen, A, van Enkhuizen, J, Sharp RF, Dulcis, D (2018). Mice with reduced DAT levels recreate seasonal-induced switching between states in bipolar disorder. *Neuropsychopharmacology*. \* Authors contributed equally. PMID: 29520059. [from work with a trainee]
- 30) Kwiatkowski, MA, Helleman, G, Sugar, CA, Cope, ZA, Minassian, A, Perry, W, Geyer, MA, **Young, JW** (2018). Dopamine transporter knockdown mice in the behavioral patterns monitor: A robust, reproducible model for mania-relevant behaviors. *Pharmacology Biochemistry and Behavior*. doi: 10.1016/j.pbb.2017.12.007 [from work with a trainee]
- 31) Amitai, N, Powell, SB, **Young, JW** (2019). Phencyclidine increased while isolation rearing did not affect progressive ratio responding in rats: investigating potential models of amotivation in schizophrenia. *Behavioral Brain Research*. 364: 413-422 PMID: 29175446 [from work with a trainee]
- 32) Bismark, AW, Thomas, ML, Tarasenko, M, Shiluk, AL, Rackelman, SY, **Young, JW\***, and Light, GL (2018). Reverse translated and gold standard continuous performance tests predict global cognitive performance in schizophrenia. *Translational Psychiatry*. 8(1):80 \* denotes corresponding author. PMID: 29643355 [from work with a trainee]
- 33) Thaney, VE, Sanchez, AB, Fields, JA, Minassian, A, **Young, JW**, Maung, R, Kaul, M (2017). Transgenic mice expressing HIV-1 envelope protein gp120 in the brain as an animal model in neuroAIDS research. *Journal of Neurovirology*. 24(2): 156-167. PMID: 29075998.
- 34) Reddy, LF, Horan, WP, Barch, DM, Buchanan, RW, Gold, JM, Marder, SR, Wynn, JK, Young, JW, Green, MF (2018). Understanding the association between negative symptoms and performance on effort based decision making tasks: The importance of defeatist performance beliefs. *Schizophrenia Bulletin*. 44(6): 1217-1226 PMID: PMC6192468
- 35) Barnes, SA, **Young, JW**, Markou, A, Adham, N, Gyertyán, I, Kiss, B (2018). The Effects of the Dopamine-D<sub>2</sub> Family Receptor Partial Agonists, Cariprazine and Aripiprazole, on PCP-Induced Deficits on Attention Assessed in the 5-Choice Serial Reaction Time Task. 235(5): 1403-1414. PMID: 29473089. [from work with a trainee]
- 36) **Young, JW**, Light, GA (2018). Cross-species neurophysiological biomarkers of attentional dysfunction in schizophrenia: Bridging the translational gap. *Neuropsychopharmacology*. 43(1): 230-231. PMID: 29192660.
- 37) Bhakta, SG, Light, GA, Talledo, JA, Balvaneda, B, Hughes, E, Alvarez, A, Rana, BK, **Young, JW**, Swerdlow, NR (2017). Tolcapone-enhanced neurocognition in healthy adults: Neural basis and predictors. *International Journal of Neuropsychopharmacology*. 20(12): 979-987. PMID: 29020372. [from work with a trainee]

- 38) Milliene-Petiot M, Minassian, A, Groenink, L, **Young, JW**, (2017). Blockade of dopamine D1-family receptors attenuates the mania-like hyperactive, risk-preferring, and high motivation behavioral profile of mice with low dopamine transporter levels. *Journal of Psychopharmacology*. 31(10): 1334-1346. PMID: 28950781. [from work with a trainee]
- 39) MacQueen, DA, Minassian, A, Henry, BL, Geyer, MA, **Young, JW**, Perry, W (2017). Amphetamine modestly improves Conner's Continuous Performance Test performance in healthy adults. *Journal of the International Neuropsychological Society*. 24(3): 283-293, PMID: 29032769 [from work with a trainee]
- 40) Cope, ZA, Minassian, A, Kreitner, D, MacQueen, DA, Milienne-Petiot, M, Geyer, MA, Perry, W, **Young, JW** (2017). Modafinil improves attentional performance in healthy non-sleep deprived humans at doses not inducing hyperarousal across species. *Neuropharmacology*. 125: 254-262. PMID 28774856 [from work with a trainee]
- 41) Bismark, AW, Thomas, ML, Tarasenko, M, Shiluk, AL, Rackelmann, SY, **Young, JW\***, Light, GA (2017). Relationship between effortful motivation and neurocognition in schizophrenia. *Schizophrenia Research*. 193:69-76 PMID: 28673753 [Corresponding author; from work with a trainee]
- 42) Bhakta, SG, **Young, JW**, (2017). The 5 Choice Continuous Performance Test (5C-CPT): A novel tool to assess cognitive control across species. *Journal of Neuroscience Methods*.
- 43) Pletnikov, M, **Young, JW**, Hall, FS, Kent, S, Brigman, JL (2017) Introduction to the special issue from the 2015 meeting of the International Behavioral Neuroscience Society. *Neuroscience Biobehavioral Reviews*. 76(B). 185-186.
- 44) Kirlic, N, **Young, JW**, Aupperle, RL (2017). Animal to human translational paradigms relevant for approach avoidance conflict decision making. *Neuroscience Biobehavioral Reviews*. 96: 14-29.
- 45) Barnes, SA, Der Avakian, A, **Young, JW** (2017). Preclinical models to investigate mechanisms of negative symptoms in schizophrenia. *Schizophrenia Bulletin*. 43(4): 706-711. PMID: PMC5472160. [from work with a trainee]
- 46) Higa, KK, Grim, A, Kamenski, ME, van Enkhuizen, J, Zhou, X, Li, K, Naviaux, JC, Wang, L, Naviaux, R, Geyer, MA, **Young, JW** (2017). Nicotine withdrawal-induced inattention is absent in alpha7 nAChR knockout mice. *Psychopharmacology*. 234(9), 1573-1586. PMID 28243714 [from work with a trainee]
- 47) Milienne-Petiot, M, Geyer, MA, Arnt, J, **Young, JW**, (2018). Brexpiprazole reduces hyperactivity, impulsivity, and risk-preference behavior in mice with dopamine transporter knockdown – a model for mania. *Psychopharmacology*. PMID 28160035 [from work with a trainee]
- 48) Higa, KK, **Young, JW**, Ji, B, Nichols, DE, Geyer, MA, Zhou, X (2017). Striatal dopamine D1 receptor suppression impairs reward-associative learning. *Behavioral Brain Research*. Corresponding Author. PMID 28143767 [from work with a trainee]
- 49) Khan, A, de Jong, LAW, Kamenski, ME, Higa, KK, Lucero, JD, **Young, JW**, Behrens, MM, Powell, SB (2017). Adolescent GBR12909 exposure induces oxidative stress, disrupts parvalbumin-positive interneurons, and leads to hyperactivity and impulsivity in mice. *Neuroscience*. 345: 166-175. [from work with a trainee]
- 50) **Young, JW\***, Bismark\*, AW, Sun, Y, Zhang, W, McIlwain, M, Grootendorst, I, Light, GA (2017). Neurophysiological characterization of attentional performance dysfunction in schizophrenia patients in a reverse-translated task. *Neuropsychopharmacology*. 42(6). 1338-1348. \* contributed equally. [from work with a trainee]



- 51) **Young, JW**, Winstanley, C, Brady, AM, Hall, FS (2017). Research Domain Criteria versus DSM V: How does this debate affect attempts to model corticostriatal dysfunction in animals? *Neuroscience Biobehavioral Reviews*. 76(Pt B): 301-316. PMID 27826070
- 52) Cope, ZA, **Young, JW**, (2017). The five-choice continuous performance task (5C-CPT): A cross-species relevant paradigm for the assessment of vigilance and response inhibition in rodents. *Current Protocols in Neuroscience*. 78:9.56. 1-9:56. [from work with a trainee]
- 53) Milienne-Petiot, M, Kesby, JP, Graves, M, van Enkhuizen, J, Semenova, S, Minassian, A, Geyer, MA, **Young, JW**, (2017). The effects of reduced dopamine transporter function and chronic lithium on motivation, probabilistic learning, and neurochemistry in mice: Modeling bipolar mania. *Neuropharmacology*. 113(Part A): 260-270. PMID 27732870 [from work with a trainee]
- 54) Cope, ZA, Halberstadt, AL, van Enkhuizen, J, Flynn, AD, Breier, M, Swerdlow, NR, Geyer, MA, **Young, JW**, (2016). Premature responses in the 5-choice serial reaction time task reflect rodents' temporal strategies: Evidence from no-light and pharmacological challenges. *Psychopharmacology*. 233(19-20): 3513-3525. PMID 27534540 [from work with a trainee]
- 55) Halberstadt, AL, Sindhunata, I, Scheffers, K, Flynn, AD, Sharp, RF, Geyer, MA, **Young, JW**, (2016). Effect of 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors on temporal discrimination by mice. *Neuropharmacology*. 107: 364-375. PMID: 27020041 [from work with a trainee]
- 56) Landgraf, D, Joiner, WJ, McCarthy, MJ, Kiessling, S, Barandas, R, **Young, JW**, Cermakian, N, and Welsh, DK (2016). The mood stabilizer valproic acid opposes the effects of dopamine on circadian rhythms. *Neuropharmacology*. 107:262-270. [from work with a trainee]
- 57) Pillidge, J, Porter, AJ, **Young, JW\***, Stanford, SC\* (2016). Methylphenidate has different effects on specific aspects of behavior of NK1R<sup>-/-</sup> ('knockout') mice and their wildtypes in the 5-choice continuous performance test. *Journal of Psychopharmacology*. 30(9): 837-847. [\*Co-Senior author; from work with a trainee]
- 58) Higa, KK, **Young, JW**, Geyer, MA (2016). Wet or dry: Translatable "water mazes" for mice and humans. *Journal of Clinical Investigations*. 126(2): 477-479. [Corresponding author; from work with a trainee]
- 59) Cope, ZA, Powell, SB, **Young, JW** (2015). Modeling neurodevelopmental cognitive deficits in tasks with cross-species translational validity. *Genes, Brain and Behavior*. 15(1): 27-44. [from work with a trainee]
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- 139) Perry, W, Minassian, A, Paulus, MP, **Young, JW**, Kincaid, MJ, Ferguson, E, Henry, BL, Masten, V, Sharp, RF, and Geyer, MA, (2009). A reverse-translational study of dysfunctional exploration in psychiatric disorders: from mice to men. *Archives of General Psychiatry*. **66**(10): 1072-1080. PMID: PMC2897252.
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- 146) **Young, JW**, Finlayson, K, Spratt, C, Marston, HM, Crawford, N, Kelly, JS, and Sharkey, J, (2004). Nicotine improves sustained attention in mice: Evidence for the involvement of the alpha 7 nicotinic acetylcholine receptor. *Neuropsychopharmacology*, 29: 891-900.

## OTHER PUBLICATIONS

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- 1) **Young, JW**, Geyer, MA (2017). Animal models of bipolar disorder: An Update. *Encyclopaedia of Behavioral Neuroscience*. Elsevier
- 2) MacQueen, DA, **Young, JW\***, Cope, ZA (in press). Cognitive phenotypes for biomarker identification in mental illness: Forward and reverse translation. *Current Topics in Behavioral Neurosciences*.
- 3) **Young, JW**, Anticevic, A, Barch, DM, (2017). Cognitive and Motivational Neuroscience of Psychiatric Disorders.

- 4) Hall, FS, **Young, JW**, & Der Avakian, A (eds) Negative Affective States in Cognitive Impairments in Nicotine Dependence. Academic Press.
- 5) **Young, JW**, Minassian, A, Geyer, MA (2016). Locomotor profiling from rodents to the clinic and back again. Robbins, TW and Sahakian, B (eds). Current Topics in Behavioral Neurosciences; Translational Neuropsychopharmacology.
- 6) van Enkhuizen, J, **Young, JW** (2015). Nicotine withdrawal and attentional deficit studies across species: Conflation with attentional dysfunction in psychiatric patients. Hall, FS, Young, JW, & Der Avakian, A (eds) Negative Affective States in Cognitive Impairments in Nicotine Dependence.
- 7) **Young, JW**, Amitai, N, and Geyer, MA, (2012). Behavioral animal models to assess pro-cognitive treatments for schizophrenia. Geyer, MA, and Gross, G (eds) Handbook of Experimental Pharmacology, Volume on Novel Antischizophrenia Treatments. Springer, Heidelberg, (213):39-79.
- 8) **Young, JW**, and Geyer, MA, (2011). Using behavioral patterns across species in mood disorder research. Gould, T, (ed) Mood and anxiety related phenotypes. Springer
- 9) **Young, JW**, and Risbrough, V, (2009). Animal Models of Successful Aging. Depp, C, and Jeste DV, (eds). Handbook Successful Cognitive and Emotional Aging. American Psychiatric Publishing Inc.
- 10) **Young, JW**, and Geyer, MA, (2011). Animal Models of Bipolar Disorder. Koob, G, Thompson, RF, and Le Moal, M, Encyclopaedia of Behavioral Neuroscience. Elsevier.
- 11) **Young JW**, Zhou X, Geyer MA, (2010) Animal models of schizophrenia. In: Swerdlow N (ed) Behavioral Neurobiology of Schizophrenia and Its Treatment. Current Topics in Behavioral Neuroscience. Springer, Heidelberg. 4:391-433.
- 12) **Young, JW**, Geyer, MA, and the TURNS preclinical committee (2007) Report on putative preclinical models of the MATRICS battery <http://www.turns.ucla.edu/preclinical-TURNS-report-2006b.pdf>

## INVITED LECTURES

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- 1) Mt. Sinai, 2021 “Using cross-species translational tasks to identify neural mechanisms underlying bipolar mania”, hosted by Prof. Hirofumi Morishita.
- 2) Drexel University, 2021 “Determining the impact of HIV-relevant proteins & substance use that contribute to cognitive and behavioural dysfunction using rodent models”.
- 3) University of Texas, Houston, 2021 “Cross-species translational tools to determine mechanisms & potential treatments for bipolar disorder.
- 4) Addiction Special Interest Group, 2020, “Interdisciplinary Research Fellowship in NeuroAids”
- 5) Interdisciplinary Research Fellowship in NeuroAids, 2020, “Pre-clinical to clinical translation”
- 6) Randolph Macon College, 2020, “Modelling bipolar disorder in mice”
- 7) University of Texas, Houston, 2020 “Cross-species translational tools determining mechanisms & potential treatments for bipolar disorder.
- 8) MIRECC motivation reward, 2020, “Translational studies investigating motivational deficits in people with schizophrenia”
- 9) Mount Sinai, March 2020, “Cross-species translational tools identify mechanisms & potential treatments for bipolar disorder
- 10) University of Southern California, 2019, “Forward- and reverse-translational studies to understand and treat cognitive deficits in psychiatric disorders.
- 11) University of Strathclyde, April 2018, “Enhancing cognition in psychiatry – utilizing a cross-species translational approach”, hosted by Dr. Shuzo Sakata



- 12) Interdisciplinary Research Fellowship in NeuroAids, April 2018 “Modeling neuropsychiatric aspects of HIV – rodent/human translational research”, hosted by Dr. Mariana Cherner
- 13) University of Amsterdam, April 2018, “Translational Research Revealing Mechanisms Contributing to Switching Between States in Bipolar Disorder”, hosted by Dr. Tommy Pattij
- 14) University of Utrecht, April 2018, “Enhancing cognition – a cross-species translational approach for psychiatric conditions”, hosted by Dr. Lucianne Groenink
- 15) Stony Brook University, February 2018 “Cross-species translational research to identify novel targets for cognitive dysfunction in psychiatric conditions”, hosted by Dr. Anissa Abi Dhargam
- 16) Temple University, October 2017, “Translational studies investigating mechanisms underlying bipolar disorder: Mania and Cycling”, hosted by Dr. Deborah Bangasser.
- 17) Takeda Pharmaceuticals, July 2017, “Using cross-species tools in bipolar research to delineate underlying neural mechanisms and identify potential therapeutics”, hosted by Dr. Hida Tsuneaki.
- 18) Translational Methamphetamine AIDS Research Center (TMARC), June 2017, “Cannabis use and the endocannabinoid system in bipolar disorder”, hosted by Professor Igor Grant.
- 19) University of Houston, Neuroscience Program talk, June 2017, “Using cross-species translational research to delineate the neural mechanisms underlying bipolar disorder”, hosted by Professor Terri Kosten.
- 20) Vietnam Era Twin Study of Aging (VETSA) Program talk, May 2017, “Tools for cross-species assessment in Dementia”, hosted by Dr. William Kremen.
- 21) Neuroscience Graduate Program Retreat, May, 2017 “Translational research revealing mechanisms contributing to switching between states in bipolar disorder”, hosted by Dr. Tim Gentner.
- 22) University of New Mexico, October, 2016 “Narrowing the translational divide to generate pro-cognitive therapeutics for psychiatric disorders”, hosted by Dr. Jonathan Brigman.
- 23) Psychiatry Hillcrest Retreat, September 2016 “Translational studies on psychiatry-related behaviors using gene X environmental interaction studies”, hosted by Dr. Suzi Hong.
- 24) T32 Fellowship Training Program, (2016) “A model organism for mania – studies using cross-species translational paradigms”, hosted by Dr. Betty Shih.
- 25) University of Chicago, February 2016 “From Bedside to bench and back again: Translational research in bipolar disorder”, hosted by Prof. Harriet de Wit.
- 26) MIRECC Retreat, June 2015 “Behavioral Plasticity: Dopaminergic- and nicotinic-induced improvement in mouse learning”, hosted by Prof. Michael Green.
- 27) UCSF Grand Rounds, February 2015 "A model organism for mania - studies using cross-species translational paradigms leading to a proposed mechanism underlying cycling between states", hosted by Dr. Eva Ihle.
- 28) Arena Pharmaceuticals, January 2015 "Developing treatments for cognitive deficits in schizophrenia: The challenge of translation", hosted by Dr. Andrew Grottick.
- 29) University of Manchester, April 2014 "Challenging prescribed dogma: Developing a cross-species test of vigilance, the 5-choice continuous performance test", hosted by Professor Jo Neill.
- 30) Janssen Research & Development, March, 2014 "Cross-species validation of reduced dopamine transporter function as a model for bipolar mania", hosted by Dr. Thomas Steckler.
- 31) UCSB Department of Psychology, January, 2014 "Challenging dogma: Development of the 5-choice continuous performance test", hosted by Prof. Skirmantas Janusonis.
- 32) SFN SIU Chapter, Southern Illinois University, October, 2013 “Dopaminergic and cholinergic interactions for reward-associative learning: Toward developing pro-cognitive therapeutics, hosted by Prof. Gregory Rose.

- 33) Biomedical and Clinical Research Seminar, UCSD, March, 2013 “Translational clinical and mechanistic studies of attention”, hosted by Prof. Mitch Diccianni.
- 34) Department of Neuroscience, University of New Mexico, February, 2012, “Applying cross-species translational testing to model bipolar mania”, hosted by Dr. Jonathon Brigman.
- 35) The Scripps Research Institute, La Jolla, June 2011, “Assessing vigilance across species using the continuous performance test: From mice and rats to humans”, hosted by Professor Larry Parsons.
- 36) Department of Psychiatry, VA Los Angeles, December 2010, “Assaying behaviour in rodents”, hosted by Professor William Horan.
- 37) Department of Psychiatry, UCSD, October 2010, “Manic mice, how can you tell?”, hosted by Professor David Welsh.
- 38) Seminar for Biological Psychiatry and Neuroscience Fellows, UCSD, August 2010, “Testing nicotine-induced enhancement of attention in mice”, hosted by Dr. Eric Turner.
- 39) NARSAD, San Diego, May 2010, “Healthy minds across America: Town and Gown”, hosted by Professor Ming Tsuang and Dr. Gregory Light.
- 40) Department of Psychology, UCSD, August 2008, “Cognitive testing in rodents: designing rodent analogues of human tasks”, hosted by Adam Aaron.
- 41) UCSD Psychiatry Faculty Symposium, April 2008 “The rodent continuous performance test: Filling the vigilance translational gap”, hosted by Dr. Gregory Light.
- 42) Stein Institute for Research on Aging, UCSD, December 2007, “Modelling successful cognitive aging in animals”, hosted by Professor Dilip Jeste.
- 43) UCSD PGY3 Course on Ambulatory Psychopharmacology, August 2007, “Translational Psychopharmacology”, hosted by Dr. Sidney Zissok.
- 44) Division of Physiology and Pharmacology, University of Strathclyde, May 2007 “Forward and reverse translational models: animals in the MATRICS, humans in the open field”, hosted by Professor Judith Pratt.
- 45) School of Life Sciences, University of Bradford, May 2007 “Human Behavioral Pattern Monitor – A reverse translational approach to Bipolar disorder”, hosted by Professor Jo Neill.
- 46) Department of Psychiatry, UCSD, August 2006, “The 5-choice serial reaction-time task; testing rodents”, hosted by Professor Athina Markou.
- 47) Department of Neuroscience, University of California Los Angeles, May 2006 “Effects of manipulating nicotinic acetylcholine receptors on mouse cognition”, hosted by Professor J David Jentsch.
- 48) Centre for Neuroscience, University of Edinburgh, February 2006 “Use of the MATRICS as a translational tool: Animal modelling of cognition”, hosted by Prof. Richard G Morris.
- 49) Division of Physiology and Pharmacology, University of Strathclyde, September 2005, “Cognitive effects of genetic and pharmacological manipulation of the alpha 7 nicotinic acetylcholine receptor”, hosted by Professor Judith Pratt.
- 50) Janssen and Janssen in Antwerp, August 2005, “Investigating the contribution of nicotinic acetylcholine receptors to cognition utilising both pharmacological and genetic manipulations”, hosted by Dr. Thomas Steckler.
- 51) Department of Psychiatry, GlaxoSmithkline in Harlow, June 2005, “The investigation of nicotinic acetylcholine receptors in cognition: Utilising both pharmacological and genetic manipulations”, hosted by Dr. Darrell Pemberton.

## **INVITED KEYNOTE LECTURES**

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- 1) IBNS, June 2014 "Cross-species translational studies of bipolar disorder", hosted by Prof. Stephen Kent.
- 2) UCSD Psychiatry Faculty Symposium, April, 2012 "Development and cross-species translational validation of the 5-choice continuous performance test: revealing neural mechanisms, identifying potential therapeutics", hosted by Dr. Christine Smith.

## **INVITED SYMPOSIA TALKS**

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- 1) WCBR 2022 "Trusting in Translation"
- 2) WCBR 2022 "Impact of Cannabinoids on Risky Decision-Making in Mice with Reduced Dopamine Transporter Expression: Implications for Bipolar Disorder"
- 3) ACNP 2021 "Cannabinoid Modulation of Hyper-Reward Responsivity and Hyper-exploration in Mice with Reduced Dopamine Transporter Expression Model of Bipolar mania: Revealing Mechanisms from Clinical Observations"
- 4) SOBP 2020, "Potential for Endocannabinoid-induced attenuation of bipolar-relevant behaviors in mice with reduced dopamine transporter expression"
- 5) EBPS, April 2019 "Translational studies on effortful motivation in schizophrenia and bipolar disorder"
- 6) SIRS, April 2019 "Utilizing cross-species translational tasks assessing effortful motivation to identify potential therapeutics for negative symptoms in schizophrenia"
- 7) Pavlovian Society, October 2019 "The progressive ratio breakpoint schedule of reinforcement: A translational springboard toward understanding effortful motivation abnormalities in psychiatric disorders."
- 8) SRNT, May 2019 "Investigating the neural basis of nicotine withdrawal-induced attentional deficits"
- 9) WCBR, February 2020 "Sex differences in the behavioral effects of gestational stress induced by a winter-like photoperiod".
- 10) Touchscreen Symposium 2021 "Theta power electroencephalographic biomarker of 5-choice continuous performance test (5C-CPT) in both humans and mice"
- 11) IBNS June 2018 "Convergent neural biomarkers to bridge the species divide in behavioural neuroscience for psychiatric research", hosted by Prof. John Bruno.
- 12) IBNS, June 2018 "Impact of nicotine on aberrant reward processing in a mouse model of HIV", hosted by Dr. Vinay Parikh.
- 13) SOBP, May 2018 "Behavioral assessment of Clock mutant mice; consistencies and contrasts with bipolar disorder", hosted by Prof. Colleen McClung.
- 14) Pavlovian Society, October 2017 "Attentional assessment across species reveal putative mechanisms, biomarkers, and treatments for clinical populations", hosted by Dr. Deborah Bangasser.
- 15) IBNS, June 2017 "Reproducibility of reduced dopamine transporter functioning recreating bipolar mania-relevant behaviour", hosted by Dr. Jill Silverman
- 16) IBNS, June 2017 "Modafinil improves cognition in humans without inducing hyperactivity", hosted by Prof. Barry Waterhouse.
- 17) WCBR 2017 "Neural basis of nicotine withdrawal-induced attentional deficits – necessity of alpha7 nAChRs for inattention but not response inhibition, hosted by Dr. Vinay Parikh.

- 18) Molecular Psychiatry 2016 “Seasonal photoperiod length-induced switching between bipolar-like states in genetically-susceptible mice”, hosted by Prof Colleen McClung.
- 19) Society for Neuroscience 2016 “Amphetamine-induced improvement in rat 5-choice continuous performance test (5C-CPT) in poor performers”, hosted by Dr. Adrienne Mueller.
- 20) IBNS, June 2016 “Reducing neuronal transcription factor Sp4 alters glutamatergic/NMDA receptor function and behaviors relevant to serious mental illness”, hosted by myself.
- 21) IBNS, June 2015 “Reducing dopamine transporter expression in mice recreates a mania-like behavioral profile”, hosted by Dr. Scott Hall.
- 22) ACNP, December 2014 " Reducing dopamine transporter expression reproduces patterns of inattention and risk taking seen in manic bipolar patients", hosted by myself.
- 23) SFN, November 2014 " Nicotine improves probabilistic learning via enhancing reward-associative learning , an effect attenuated in alpha 7 nAChR null mutants: A mechanism for alpha 7 nAChR agonist effects on negative symptoms in schizophrenia?", hosted by Prof. Collins.
- 24) IBNS, June 2014 "Investigating the neural basis of nicotine withdrawal-induced attentional deficits", hosted by Dr. Scott Hall.
- 25) IBNS, June 2014 "Good money after bad: Using mouse and human gambling tasks to explore why bipolar patients chase risk", hosted by Dr. Stan Floresco.
- 26) SIRS, April 2014 "Isolating poor attention, reward learning, and amotivation in the Sp4 hypomorphic mouse model of schizophrenia: GLYT1 inhibitors treat only inattention", hosted by Prof. Mark A. Geyer.
- 27) Cognition Satellite to SIRS, April 2014 " GLYT1 inhibition attenuates the attentional deficits of a mouse model of schizophrenias measured in the 5C-CPT", hosted by Prof. Phillip Harvey.
- 28) IBNS, June 2013 “Dopaminergic influences on learning via positive and negative feedback”, hosted by Dr. Jonathon Brigman.
- 29) ICOSR Cognition Satellite, April 2013 “Dopaminergic influences on probabilistic learning via affecting responses to reward and punishment”, hosted by Prof. Phillip Harvey.
- 30) IBNS, June 2012 “What are these things called working memory: Translational pitfalls in developing pro-cognitive treatments”, hosted by Dr. Eva Ihle.
- 31) IBNS, June 2012 “Reduced Dopamine Transporter Function: A Model of Mania with Cross-species Translational Validity”, hosted by Dr. Eimeira Padilla.
- 32) SIRS, April 2012 “The enduring challenge of modelling negative symptoms in schizophrenia in animals”, hosted by Professor John Waddington.
- 33) ACNP, December 2011 “Modelling negative symptoms of schizophrenia in rodents”, hosted by Professor Stephen Marder.
- 34) ACNP, December 2011 “Dopamine transporter knockdown mice exhibit within-session risk learning deficits in a mouse Iowa Gambling Task consistent with Bipolar mania patients”, hosted by Professor William Carlezon.
- 35) CNTRICS, April 2011 “Species differences in cognitive testing”, hosted by Drs. Holly Moore and Cameron Carter.
- 36) IBNS, June 2011 “Delayed ‘eureka’ of alpha 7 nicotinic acetylcholine receptor knockout mice”, hosted by Dr. Jonathon Brigman.
- 37) ICOSR, cognitive satellite, April 2011, “Impaired vigilance of patients with schizophrenia in a human/rodent 5-choice continuous performance test (5C-CPT)”, hosted by Professor Phillip Harvey.
- 38) BAP, July 2010 “Exploration broadens one’s horizons: Insights from the cross-species test the Behavioral Pattern Monitor”, hosted by Professor Nicol Ferrier

- 39) BAP, July 2010 “The  $\alpha 7$  nicotinic acetylcholine receptor agonist PNU 282987 does not improve vigilance in mice as assessed in the 5C-CPT: Contrasts with nicotine”, hosted by Professor Jorgen Scheel-Kruger
- 40) CNTRICS, April 2010 “Genetic models of psychiatric disorders”, hosted by Dr. Deanna Barch.
- 41) TPGEN, March 2010 “Reduced D4 expression in mice produce a vigilance deficit consistent with ADHD patients, as assayed in the 5C-CPT”, hosted by Dr. Hugh Marston.
- 42) ACNP, December 2009 “Cross-species translational research in vigilance; the 5C-CPT”, hosted by Dr. David Feifel.
- 43) MIRECC, September 2009 “Developing tasks with cross-species translation validity to investigate neuropsychiatric disorders”, hosted by Professor. Steven Marder.
- 44) EBPS, September 2009 “Assaying vigilance in mice; the 5-choice continuous performance test”, hosted by Dr. Theodora Duka.
- 45) IBNS, June 2009 “Measuring impulsivity; separating response inhibition and motor impulsivity”, hosted by Dr. Sylvie Granon.
- 46) SOBP, May 2009 “Approaches to translation between human and animal studies of bipolar disorder and its treatment”, hosted by Dr. Thomas Gould.
- 47) ICOSR, March 2009 “Preclinical assessment of vigilance in rats and mice: Translational validity for the continuous performance test”, hosted Dr. Mark A. Geyer.
- 48) IBNS, June 2008 “The mouse 5-choice Continuous Performance Test of attention/vigilance”, hosted by myself.
- 49) IBNS, June 2008 “Assessing attention/vigilance in mice, the 5C-CPT”, hosted by Dr. Victoria Risbrough.
- 50) MIRECC, October 2007 “The rodent continuous performance task: designing a rodent analogue of a human task”, hosted by Professor David Braff.
- 51) Drug Discovery, September 2007 “Validation in animal models of cognition”, hosted by Dr. Rudy Schreiber.
- 52) IBNS, June 2007 “Hypersensitivity of Dopamine Transporter Knockdown mice to the effects of the Dopamine Transport Inhibitor GBR 12909”, hosted by Professor Francisco Guimares.
- 53) BAP, July 2006 “Cognitive Enhancement with antipsychotic treatment: A pipedream?”, chaired by Professor Jo Neill.
- 54) 2<sup>nd</sup> UK Nicotinic Receptor Club Meeting, London, May 2005 “Nicotine reverses the working memory deficit observed in mice over-expressing human caspase-3”, chaired by Dr. James Kew.

## **PROFESSIONAL ACTIVITIES**

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- 2021: Study Group Chair ACNP “Challenges and Opportunities for Translational Research and Clinical Strategies Within the LGBTQIA2S+ Community”
- 2020: Panel Chair SOBP “Comorbidity of cannabis use in bipolar disorder – public crisis or opportunity for treatment development”
- 2019: Panel Chair EBPS “Putting the effort in: translational models of the allocation and application of effort and its role in psychiatric illness”
- 2018-2022: President of the International Behavioral Neuroscience Society (IBNS)
- 2018-present: Member of the Committee on Educational Policy (CEP), UCSD
- 2017: Panel Chair SOBP “Discovery and Evaluation of Neural Translational Measures for Improving Therapeutic Discovery for Mental Disorders”

- 2016: Co-Symposium Chair Molecular Psychiatry “Identification of mechanisms and circuitry that contribute to the development and treatment of bipolar disorder”.
- 2016-2019: Education and Training Committee member for IBNS
- 2016-present: Member of the Graduate Program Education Committee, UCSD
- 2015-present: Member of the Neurosciences Graduate Program (NGP), UCSD.
- 2015-present: Member of the Admissions Committee of the UCSD NGP.
- 2015-present: Member of the Scientific Council of the Brain and Behavioral Research Foundation
- 2015:2015: Studied in the National Center of Leadership in Academic Medicine (NCLAM)
- 2014-2017: Education and Training Committee member for ACNP
- 2013-2014: Chair of the Program Committee for IBNS
- 2012-2013: Co-chair of the Program Committee for IBNS
- 2008-2009: Student Council representative member for IBNS
- 2011-2014: Program Committee Member for IBNS
- 2013-2016: USA Council representative member for IBNS
- 2006-2008: Member of the Treatment Units for Research on Neurocognition and Schizophrenia preclinical subcommittee
- 2008-2010: Consultant for Pfizer Nutrition
- 2013-2014: Consultant for Amgen
- 2014: Symposium Chair ACNP "Neural circuitry contributing to mood, impulsivity, and decision making in bipolar and other inhibitory disorders: Studies from imaging and genetics, to pharmacology and model organisms"
- 2014: Symposium Co-Chair SIRS "Translational studies isolating cognitive dysfunction and amotivation in schizophrenia and related disorders"
- 2013: Symposium Chair IBNS “A translational perspective on the neural circuitry of learning and decision making via positive and negative feedback”
- 2012: Symposium Chair IBNS “Psychiatry and Cognition”
- 2011: Symposium Chair IBNS “Examining the genetic and neural components of cognitive flexibility using mice”
- 2009: Symposium Chair ICOSR “Preclinical tasks applicable to the MATRICS cognitive Test Battery”
- 2008: Symposium Chair IBNS “Animal modelling of cognition: With relevance to schizophrenia”
- Senior Editor** for Neuropharmacology (2016-present), International Journal of Neuropsychopharmacology (2017-present).
- Editorial Review Boards** for Cognitive and Affective Behavioral Neuroscience (2015-present), Frontiers in Psychopharmacology (2009-present), Frontiers in Neuropharmacology (2012-present), Neuropharmacology (2011-present), and World Journal of Psychiatry (2011-present), Guest Editor for Neuroscience Biobehavioral Reviews (2014-present), Behavioral Brain Research (2014-present), and Physiology and Behavior (2012).
- Journal Reviewer** for the following journals Behavioral Brain Research (2009); Behavioral Pharmacology (2008); Behavioral Neuroscience (2010); Biological Psychiatry (2008); Brain Imaging and Behavior (2015); Brain Sciences (2016); British Journal of Pharmacology (2008); Chemical Senses (2007); Brain, Behavior, and Immunology (2016), Brain Sciences (2016); Cognitive, Affective and Behavioral Neuroscience (2008); Current Opinion in Investigational Drugs (2007); European Journal of Neuroscience (2007); European Journal of Pharmacology (2008); eNeuro (2020); European Neuropsychopharmacology (2011); International Journal of Developmental Neuroscience (2011); International Journal of Neuropsychopharmacology (2008); Journal of Psychopharmacology (2008); Journal of Neuroscience (2014); Learning and Memory (2014); Metabolic Brain Disease (2016); Molecular and Cellular Neuroscience (2009); Neurobiology of Disease (2012); Neurochemistry International (2009); Neuropharmacology

(2009); Neuropsychopharmacology (2006); Neuroscience (2010); Neuroscience Biobehavioral Reviews (2007); Pharmacology Research & Perspectives (2013); Physiology and Behavior (2006); Pharmacology, Biochemistry and Behavior (2008); PNAS (2017); Psychiatry Research (2009); Psychopharmacology (2007); Revista Brasileira de Psiquiatria (2013); Schizophrenia Bulletin (2009), Schizophrenia Research (2012), Scientific Reports (2016).

**Grant Reviewer** for AATRM (2010), Alkermes (2019); Spain; ANR (2014), France; NCRG (2012 & 2013), USA; Early Career Reviewer for Center for Scientific Review (2013-present), MIRECC (2010-present); Milken Institute (2021); NARSAD Young & Independent Investigator Awards (2016-present); USA; NIH NNRS Study Section Ad Hoc Reviewer (2017), PMDA Ad Hoc Reviewer (2017-2019), PMDA Study Section (2019-2024), USA. OSG, (2013), Poland; MRC South Africa (2012), Wellcome Trust, UK (2014).

**UCSD Committee Service:** Psychiatry Chairman's Diversity Committee (2012-present); Diversity subcommittees include LGBT and Gender (2014-present); Graduate Program Education Committee (2013-present), Vice Chair of the Graduate Program Education Committee (2016-present), Neuroscience Graduate Program (2015-present), Academic Senate (2016-present), Senior Faculty Committee (2013-present).

## **PROMOTION OF DIVERSITY**

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My entire life I have had a strong sense for the need of equality. Coming from Scotland, that has not always meant the same as those as I experienced living in the United States of America. Indeed, as an immigrant to the US, as a first generation university graduate (a term I had not heard before coming to the US), and as a part of the LGBTQIA+ community, I gained a greater appreciation for the need of equality. Since joining UCSD Faculty, I became part of the UC-wide award-winning Psychiatry Chair's Diversity Committee (since 2012), playing a very active role in several subcommittees including Gender, Cultural Celebration, LGBTQIA+, and Climate Surveys. I aided in organizing and presenting workshops including the Implicit Bias Workshop. As President of the International Behavioral Neuroscience Society (IBNS), I took the opportunity as my first year as President-Elect to lead an Ad Hoc Committee on Ethics and Diversity. Prior to that year (2018), we neither had a code of conduct for the Society and its meeting, nor a means to promote diversity in this international society. While we began modestly, we highlighted the problems of not having this equal level of commitment from the Society and in 2019 began a full committee, where I recruited numerous other members to take prominent roles. This work has culminated in applying, and being granted, NIMH R13 support for IBNS to improve diversity and inclusivity within the Society.

I am also part of the Diversity & Inclusivity Task Force with the American College for Neuropsychopharmacology. We had great successes this year, with specific items I pushed for was that the LGBTQIA2S+ community – underrepresented in the College and STEM in general – is now a group part of the Diversity Invitation Bank, Travel Awards etc.. We held a LGBTQIA2S+-focused study group highlighting the role of the community in science with advice on how best to conduct research and aid clinicians, in addition to a full LGBTQIA2S+ panel, really creating a safe-space in the College for the first time. This study group has been requested as a Commentary for Neuropsychopharmacology journal. Finally, I spearheaded the adoption of inclusivity work within the Consortium for Translational Research In Neuropsychopharmacology (CTRIN), work and statements for which appear throughout our website. Beyond this outward facing work, within the laboratory I have also worked to foster inclusivity. While my door has been always been open to anyone from any background, taking on international mentees, those of the LGBTQIA2S+ community, I have worked within Diversity programs at both UCSD and NIH. For example, I have sponsored two students from the Scholars in Translational and Academic Research (STARs),

program at UCSD, Loren Lavadia and Daniella Yidi. Loren enjoyed her 6-week program with us so much we took her on initially as a volunteer, then as a paid intern, completing a Post-Bac in Boston, and now applying to MD/PhD programs. Additionally, I obtained Diversity Supplemental funding for Dr. Johnny Kenton, to work on our R01 on bipolar disorder and the endocannabinoid system, and recently supported a similar application from Dr. Alannah Miranda. I am proud of the foundation that we have worked to create, but I recognize far more needs to be done. .

Bangasser, D., Carr, G., **Kentner, A.C.**, Young, JW. (2020). Analysis of gender diversity in IBNS leadership from 2002-2019. International Behavioral Neuroscience Meeting [Virtual Meeting].

Carr, G., Rincón-Cortés, M., Bangasser, D., Donaldson, T.S., Sangha, S., Kent, S., Young, JW., van Wagner, M., **Kentner, A.C.** (2020). Analysis of gender diversity in IBNS leadership from 2002-2019. International Behavioral Neuroscience Meeting [meeting cancelled due to COVID19].

Rincón-Cortés, M., Bangasser, D., Donaldson, T.S., Carr, G., Sangha, S., Kent, S., Young, JW., van Wagner, M., **Kentner, A.C.** (2020). Analysis of gender diversity in IBNS speakers, conference chairs, and awardees from 2015-2019. International Behavioral Neuroscience Meeting [meeting cancelled due to COVID19].

Each of the information generated appears on the IBNS website [www.ibnsconnect.org](http://www.ibnsconnect.org)

## TEACHING EXPERIENCE

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2019-present: Teaching Minor Prop (NEU G 280) class for the Neuroscience Graduate Program

2016: Taught Advanced Research Methods Laboratory (NEUR410W) at USD for the Department of Psychology.

2010, 2012, 2014, 2016, 2018, & 2020: Lectured for Neuropsychopharmacology course (NEU277) at UCSD for MD/PhD students, on “Animal Models of Behavior” and “The search for cognition enhancers”, Spring Quarter, providing questions and grading responses for students.

2009: UCSD Neurosciences Bootcamp program in which 1<sup>st</sup> year graduate students underwent two weeks of intensive research training.

2004: Teaching Assistant in 3<sup>rd</sup> year undergraduate Brain and Behaviour course in Department of Neuroscience, University of Edinburgh.

### Post-Doctoral Supervisor for:

- Dr. Adam L Halberstadt, 09/2007-07/2012 (Co-Supervisor)
  - K01-MH100644: “Role of the prefrontal cortex in serotonergic modulation of interval timing”
- Dr. Anthony J. Rissling, 09/2009-01/2013 (Co-Supervisor)
- Dr. Samuel Barnes, 04/2012-present (Pastoral Mentor)
- Dr. Nurith Amitai, 05/2011-12/2014 (Direct Supervisor)
- Dr. Andrew Bismark, 09/2014-07/2017 (Direct Supervisor)
  - NARSAD Young Investigator Award: “Reward Learning and Effortful Behavior as Predictors of Response to Targeted Cognitive Training in Schizophrenia.”
- Dr. Zackary Cope, 02/2015-06/2019 (Direct Supervisor)
  - T32 Post Doctoral Fellow: “Are TH+ cells in the periventricular hypothalamus necessary and sufficient for the induction of a mania-relevant behavioral profile in mice?”
- Dr. David MacQueen III, 08/2015-07/2018 (Direct Supervisor)



- MIRECC Pala: “Interactive Effects of NMDAR Hypofunction and Nicotine on a Translational Test of Attention”
- Dr. Johnny Kenton, 07/2020-present (Direct Supervisor)
- Dr. Michael Noback, 09/01/2021-present (Direct Supervisor)

**Postgraduate Ph.D. Supervisor for:**

- Jordy van Enkhuizen, UCSD/University of Utrecht, 03/2011-04/2014 (Direct supervisor)
  - MIRECC Pala award: “One mouse model for both bipolar depression and mania? The Clock mutant mice”
- Kerin Higa, Department of Neurosciences, UCSD, 01/2012-07/2017 (Direct Co-supervisor)
  - F31-MH109218: “Mitochondrial dysfunction in mice carrying the human DISC1-Boymaw fusion gene”
- Morgane Miliene-Petiot, UCSD/University of Utrecht, 09/2014-04/2018 (Direct supervisor)
- Molly Kwiatkowski, Department of Neurosciences, MSTP, UCSD, 11/2016-05/2020 (Direct supervisor)

**Postgraduate Ph.D. Rotational Supervisor for.**

- Kerin Higa, Department of Neurosciences, UCSD, 12/2011-03/2012 (Direct Supervisor)
- Geoffrey Diehl, Department of Neurosciences, UCSD, 09/2012-12/2012 (Direct Supervisor)
- Norah Koblesky, Department of Neurosciences, UCSD, 10/2014-12/2014 (Direct Supervisor)
- Caroline Sferrazza, Department of Neurosciences, UCSD, 12/2015-03/2016 (Direct Supervisor)
- Louise Stolz, Department of Neurosciences, UCSD, 12/2020-03/2021 (Direct Supervisor)

**Doctoral Thesis Committee Member:**

- Matthew Schalles, Department of Cognitive Sciences, UCSD, 11/2011-07/2014.

**Minor Prop Committee Member:**

- Nuttida Rungratsameetaweemana, Department of Neuroscience, UCSD, 12/2015.
- Amy Long, Department of Neuroscience, UCSD, 03/2018
- Christian Cazares, Department of Neuroscience, UCSD, 03/2018

**Research advisor for the following students:**

- Andrew K.L. Goey, Postgraduate Student in Pharmacy, University of Utrecht, 08/2006-03/2007
- Elizabeth A. West, Postgraduate Student in Georgetown University, 06/2007-08/2007.
- Klaas Koistra, Postgraduate Student in Pharmacy, University of Utrecht, 08/2007-02/2008
- Jordy van Enkhuizen, Postgraduate Student in Pharmacy, University of Utrecht, 08/2008-02/2009
- Isadore S. Tarantino, Undergraduate student, UCSD, 01/04/2010 – 06/07/2010
- Morgane Petoit, Postgraduate Student in Pharmacy, University of Utrecht, 01/04/2010-7/12/2010
- Brian Grootendorst, Postgraduate student in Pharmacy, University of Utrecht, 06/2012-01/2013
- Mary Graves, MARC undergraduate student, UCSD, 09/2013 – 06/2014
- Loren Lavadia, STARS undergraduate student, UCSD, 06/2015 – 08/2018
- Daniella Yidi, STARS undergraduate student, UCSD, 06/2015 – 07/2015
- Thu Nguyen, Postgraduate student in Pharmacy, University of Utrecht, 09/2013-03/2014
- Aniek Joosen, Postgraduate Student in Pharmacy, University of Utrecht, 08/2015-01/2016
- Debbie Deben, Postgraduate Student in Pharmacy, University of Utrecht, 09/2015-02/2016
- Chuck van den Capelle, Postgraduate Student in Pharmacy, University of Utrecht, 04/2017-10/2018
- Joris Herrings, Postgraduate Student in Pharmacy, University of Utrecht, 09/2021-02/2021

**SOCIETY MEMBERSHIPS**

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2008-present: European Behavioural Pharmacological Society

2018-present: Society of Biological Psychiatry

2018-present: Schizophrenia International Research Society

2012-present: American College for Neuropsychopharmacology (Committee Membership: Education & Training and Minority Task Force)

2003-present: British Association for Psychopharmacology

2002-present: British Neuroscience Association

2006-present: Society for Neuroscience

2006-present: International Behavioral Neuroscience Society (Committee Membership: Ethics and Diversity Committee; Program Chair/co-Chair, Education & Training, Nominations, Diversity Founding Chair, Finances, current President).

2019-present: College for International Neuropsychopharmacology.