

## CURRICULUM VITA

**Mu Yang, Ph.D.**

Assistant Professor of Neurobiology in Psychiatry and Institute for Genomic Medicine  
Director, Mouse NeuroBehavior Core  
Columbia University Medical Center  
Hammer Science Building Room 611  
701 West 168 St.  
New York, NY 10032  
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### PERSONAL INFORMATION:

Birthplace: Beijing, China  
Citizenship: China  
Immigration status: Permanent resident (green card)

### ACADEMIC APPOINTMENTS

09/2016 – Present      Director, Mouse Neurobehavior Core  
Assistant Professor of Neurobiology  
Istitute for Genomic Medicine  
Columbia University Medical Center, New York

07/2012- 08/2016      Assistant Professor  
Department of Psychiatry and Behavioral Sciences  
MIND Institute  
Univeristy of Carlifornia Davis Medical Center

### EDUCATION

07/2002-06/2006      Ph.D. Psychology (Behavioral Neuroscience), University of Hawaii

08/1999-06/2002      MA, Psychology (Behavioral Neuroscience), University of Hawaii

09/1995-06/1999      BA, Psychology, Peking University, Beijing, China

### TRAINING

07/2010-06/2012      Research Fellow  
Laboratory of Behavioral Neuroscience  
National Institute of Mental Health, Bethesda, MD

07/2006-06/2010      Postdoctoral Fellow  
Laboratory of Behavioral Neuroscience  
National Institute of Mental Health, Bethesda, MD

### AWARDS AND HONORS

Mu Yang

- 2015 Freshman Seminar Teaching Award, UC Davis  
2014 Joe P. Tupin Research Award, Department of Psychiatry, UC Davis  
2011 National Institute of Health Individual Cash Reward (rating-based) for Excellent Performance.  
2010 Phelan-McDermid Syndrome Foundation Society for Neuroscience Travel Award  
2007-2010 Howard Hughes Medical Institute Student Internship Mentor Award.  
2004 International Behavioral Neuroscience Society Conference Travel Award

### **EDUCATIONAL CONTRIBUTIONS**

- 2015 Instructor. Freshman Seminar (FRS2)  
University of California Davis  
2004 – 2005 Instructor. Introduction to Biopsychology (Psy230)  
University of Hawaii at Manoa  
2003 Instructor. Psychology of Emotion (Psy324)  
University of Hawaii at Manoa  
1999 - 2001 Teaching Assistant. Introduction to Biopsychology, Physiological Psychology, Perception and Cognition, University of Hawaii at Manoa

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

Society for Neuroscience (SfN)  
International Behavioural and Neural Genetics Society (IBANGS)  
International Behavioral Neuroscience Society (IBNS)  
International Society for Autism Research (INSAR)

### **EDITORIAL BOARD MEMBERSHIP**

- 2014-present *Frontier in Behavioral Neuroscience*  
2014-present *Stress, Brain, and Behavior*  
2011 *Physiology and Behavior IBNS Special Issue*

### **PROFESSIONAL SERVICE: SCIENTIFIC SOCIETIES**

- 2016 Co-chair, Education and Training committee, International Behavioural Neuroscience Society (IBNS)  
2014 Chair, satellite symposium “Autism-like behaviors in rodent models”. Society for Neuroscience (SfN) Annual Meeting. Washington, D.C.  
2014 Chair, special symposium “Current Advances in Animal Models of Neurodevelopmental Disorders”. International Behavioral Neuroscience Society (IBNS). Las Vegas, NV.  
2011-2012 Member, Animal Use/Ethics Committee, International Behavioural Neuroscience Society (IBNS)

Mu Yang

## PROFESSIONAL SERVICE: GRANT REVIEWING

### Ad Hoc for grant review committees:

2014 National Science Centre, Poland  
2014 Israel Science Foundation, Israel  
2016 The French National Research Agency  
2016 Israel Science Foundation, Israel

## FUNDING

### Completed Research Support

UC Davis MIND Institute intellectual and developmental disabilities research center (IDDRC)  
Pilot Research Grant **U54 HD079125** 07/01/2015-06/30/2016  
*Environmental risk factors of developing cognitive and social deficits in 16p11.2 deletion mouse*  
Role: PI

**University of California, Davis Research Start-Up Funds** 07/01/2015 –06/30/2017

**Tupin Research Award** (Yang, PI) 7/1/2014 – 6/30/2015  
University of California Davis Department of Psychiatry  
**Development of a novel task for testing social integration deficits in mouse models of autism**  
PI: Mu Yang, \$ 50,000/year x 1 year  
*The goal of this project is to generate a new method for evaluating social behaviors in a group of mice.*

**Simons Foundation** (Osborne, PI) 3/1/2013–12/31/2015  
Simons Foundation Autism Research Initiative  
*Characterization of brain and behavior in 7q11.23 duplication syndrome*  
PI: Lucy Osborne, University of Toronto  
Co-PI Jacqueline Crawley, \$90,000/year x 3 years  
Co-Investigator Mu Yang  
*Our role in this project is the investigation of behavioral phenotypes of 7q11.23 duplication mice.*

**Simons Foundation #204340JC** (Dolmetsch, PI) 3/1/2012 – 2/28/2015  
Simons Foundation Autism Research Initiative  
*16p11.2 Deletion Mice: Autism-Relevant Phenotypes and Treatment Discovery*  
PI Dr. Ricardo Dolmetsch, Stanford University  
Co-PI Jacqueline Crawley, \$200,000/year x 3 years  
Co-Investigator Mu Yang  
*Our role in this project is the investigation of behavioral phenotypes of 16p11.2 deletion mice.*

**Simons Foundation #94982** Buxbaum (PI) 7/1/2009-6/20/2011  
*The Role of SHANK3 in Autism Spectrum Disorders*  
Role: Co-Investigator  
The goal of this project was to conduct behavioral phenotyping of *Shank3* mutant mice.

**Pfizer Global Research Inc.** Sherr (PI) 6/1/2012 - 5/31/2013  
*Academic Collaboration Award: Gene Discovery and Neurodevelopmental Analysis in a Mouse Model of Autism*

Mu Yang

Role: Co-Investigator

The goal of this project was to identify background genes linked to autism-relevant behavioral and neuroanatomical phenotypes in the BTBR inbred strain of mice.

**NIMH IRP #MH02179**

Crawley (PI)

2007-2012

The National Institute of Mental Health Intramural Research Program supported 100% of Dr. Yang's salary through mid-2012.

## **PEER-REVIEWED PUBLICATIONS**

Jones K.L., Pride, M.C., Edmiston, E., **Yang, M.**, Silverman, J.L., Crawley, J.N, Van de Water, J. (2018) Autism-specific maternal autoantibodies produce behavioral abnormalities in an endogenous antigen-driven mouse model of autism. *Mol Psychiatry*. [Epub ahead of print]

Adhikari A., Copping N.A., Onaga B.,Pride M.C.,Coulson R.L., **Yang M.**, Yasui D.H., LaSalle J.M., Silverman J.L. (2018) Cognitive deficits in the *Snord116* deletion mouse model for Prader-Willi syndrome. *Neurobiology of Learning and Memory*.

Kazdoba TM, Leach PT, **Yang M.**, Silverman JL, Solomon M, Crawley JN. Translational Mouse Models of Autism: Advancing Toward Pharmacological Therapeutics. *Curr Top Behav Neurosci*. 2016;28:1-52.

Copping NA, Berg EL, Foley GM, Schaffler MD, Onaga BL, Silverman JL\*, **Yang M\***. Higher-order Learning Deficits and Normal Social Approach Behavior in the *Shank3B* Model of Phelan-McDermid Syndrome and Autism (2017). \*equally contributing senior authors. *Neuroscience*. 345:155-165. doi: 10.1016/j.neuroscience.2016.05.016. Epub 2016 May 14.

**Yang M.**, Lewis FC, Foley G, Sarvi, M, Crawley, JN. 16p11.2 Deletion mice display cognitive deficits in touchscreen learning and novelty recognition tasks (2015) . *Learning and Memory*. 22(12):622-32.

**Yang M.**, Lewis FC, Foley G, Crawley, JN (2015). In Tribute to Bob Blanchard: Divergent Behavioral Phenotypes of 16p11.2 Deletion Mice Reared in Same-Genotype Versus Mixed-Genotype Cages. *Physiology and Behavior*. 146:16-28.

**Yang M.**, Mahrt, E J, Lewis, FC, Foley, G, Portmann, T, Dolmetsch, RE, Portfors, CV, Crawley, JN (2015). 16p11.2 Deletion Syndrome Mice Display Sensory Deficits and Reduced Ultrasonic Vocalizations during Social Interactions. *Autism Research*. 8(5):507-21

Portmann T, **Yang M.**, Mao R, Panagiotakos G, Ellegood J, Bader P, Dolen G, Allen BA, Fisher E, Rengarajan P, Clifford KM, Malenka RC, Shamloo M, Crawley J, and Dolmetsch RE (2014). Behavioral abnormalities and circuit defect in basal ganglia in a mouse model of 16p11.2 microdeletion syndrome . *Cell Reports*. 7(4):1077-92.

**Yang M.**, Loureiro D, Kalikhman D, Crawley JN (2013). Male mice emit distinct ultrasonic vocalizations when the female leaves the social interaction arena. *Frontiers in Behavioral Neuroscience*. 7:159. doi: 10.3389/fnbeh.2013.00159. eCollection 2013.

Jones-Davis DM\*, **Yang M\***, Rider E, Gente GD, Li J, Katz AM, Weber MD, Osburn NC, Sen S, Crawley JN, Sherr EH (2013). Quantitative trait loci for interhemispheric commissure

development and social behaviors in the BTBR T<sup>+/f</sup>/J mouse model of autism.

\*equally contributing authors. *PLoS One*. 8(4):e61829. doi: 10.1371/journal.pone.0061829.

Babineau BA, **Yang M**, Crawley JN (2013). Low home cage social behaviors in BTBR T<sup>+/f</sup>/J mice during juvenile development. *Physiology and Behavior*. 114-115:49-54.

Ey E\*, **Yang M\***, Katz AM, Leuk Woldeyohannes, Silverman JL, Leblond CS, Faure P, Torquet N, Le Sourd AM, Brose N, Crawley JN, Bourgeron T (2012). Behavioral phenotypes of mice with a deletion of the *Neurologin4* gene. \*equally contributing authors. *Genes, Brain and Behavior*. 11(8):928-41.

**Yang M**, Bozdagi O, Scattoni ML, Wöhr M, Rouillet FI, Katz AM, Abrams DN, Kalikhman D, Simon H, Woldeyohannes L, Zhang JY, Harris MJ, Saxena R, Silverman JL, Buxbaum JD, Crawley JN (2012). Reduced Excitatory Neurotransmission and Mild Autism-Relevant Phenotypes in Adolescent *Shank3* Null Mutant Mice. *Journal of Neuroscience*. 9;32(19):6525-41.

**Yang M**, Abrams DA, Zhang JY, Weber MD, Katz AM, Clarke AM, Silverman JL, Crawley JN (2012). Low sociability in BTBR is independent of partner strain. *Physiology and Behavior*. 107(5):649-62.

Babineau BA, **Yang M**, Crawley JN (2012). Mainstreaming mice. *Neuropsychopharmacology*. 37(1):300-1. Review.

**Yang M**, Silverman JL, Crawley, JN (2011) Automated three-chambered social approach task for mice. *Curr Protoc Neurosci*. 2011. Chapter 8:Unit 8.26. doi: 10.1002/0471142301.ns0826s56.

Silverman JL, **Yang M**, Turner SM, Katz AM, Bell DB, Koenig JI, Crawley JN (2010). Low stress reactivity and neuroendocrine factors in the BTBR T<sup>+/f</sup>/J mouse model of autism. *Neuroscience*. 171(4):1197-208.

Bozdagi O, Sakurai T, Papapetrou D, Wang X, Dickstein DL, Takahashi N, Kajiwarra Y, **Yang M**, Scattoni ML, Harris MJ, Saxena R, Katz AM, Silverman JL, Zhou Q, Crawley JN, Hof PR, Buxbaum JD (2010). *Shank3* haploinsufficiency leads to altered synaptic development, transmission, and plasticity, as well as to social deficits. *Molecular Autism*. 1(1):15.

**Yang M**, Perry K, Weber M, Katz A, Crawley JN (2010). Social peers rescue autism-like phenotypes in adolescent mice. *Autism Research*. 4(1):17-27.

Silverman J, **Yang M**, Lord C, Crawley JN (2010). Behavioural phenotyping assays for mouse models of autism. *Nat. Rev. Neuroscience*. 11(7):490-502. Review.

**Yang M**, Clarke AM, Crawley JN (2009). Postnatal lesion evidence against a primary role for the corpus callosum in mouse sociability. *Eur J Neurosci*. 29(8):1663-77.

**Yang M**, Michael D. Weber, Crawley JN. Light phase testing of social behaviors: not a problem (2008). *Frontiers in Neuroscience*. 2(2):186-91. Review.

Chadman KK, **Yang M**, Crawley JN. Criteria for validating mouse models of psychiatric diseases (2009). *Am J Med Genet B Neuropsychiatr Genet*. 150B (1):1-11. Review.

**Yang M**, Scattoni ML, Zhodzishsky V, Chen T, Caldwell H, Young SW, McFarlane HG, Crawley JN (2007). Social approach behaviors are similar on conventional versus reverse lighting cycles, and in replications across cohorts, in BTBR T+ tf/J, C57BL/6J, and vasopressin receptor 1B mutant mice. *Frontiers in Behavioral Neuroscience*. **1**, 1-9.

**Yang M**, Zhodzishsky V, Crawley JN (2007). Social deficits in BTBR T+tf/J mice are unchanged by cross-fostering with C57BL/6J mothers. *International Journal of Developmental Neuroscience*. 25(8):515-21.

McFarlane HG, Kusek GK, **Yang M**, Phoenix JL, Bolivar VJ, Crawley JN (2008). Autism-like behavioral phenotypes in BTBR T+tf/J mice. *Genes Brain Behav*. 7(2):152-63.

**Yang M**, Farrokhi C, Vasconcellos A, Blanchard RJ, Blanchard DC (2006) Central infusion of ovine CRF (oCRF) potentiates defensive behaviors in CD-1 mice in the mouse defense test battery (MDTB). *Behav Brain Res*. 171(1):1-8.

Markham CM, **Yang M**, Blanchard DC, Blanchard RJ (2006) Effects of d-amphetamine on defensive behaviors related to fear and anxiety. *Pharmacol Biochem Behav*. 2006 Apr;83(4):490-9.

Blanchard RJ, Griebel G, Farrokhi C, Markham C, **Yang M**, Blanchard DC (2005) AVP v1b selective antagonist SSR149415 blocks aggressive behaviors in hamsters. *Pharmacol Biochem Behav*. 80(1):189-94.

Wall PM, Blanchard RJ, **Yang M**, Blanchard DC (2004) Differential effects of infralimbic vs. ventromedial orbital PFC lidocaine infusions in CD-1 mice on defensive responding in the mouse defense test battery and rat exposure test. *Brain Res*. 1020(1-2):73-85.

Wall PM, Blanchard DC, Markham C, **Yang M**, Blanchard RJ (2004). Infralimbic D1 receptor agonist effects on active memory/attention, anxiety, and anti-predator defense in CD-1 mice. *Behav Brain Res*. 152(1):67-79.

Farrokhi C, Blanchard DC, Griebel G, **Yang M**, Gonzales C, Markham C, Blanchard RJ (2004). Effects of the CRF1 antagonist SSR125543A on aggressive behaviors in hamsters *Pharmacology Biochemistry and Behavior* 77(3):465-9.

Hubbard DT, Blanchard DC, **Yang M**, Markham CM, Gervacio A, Chun-I L, Blanchard RJ (2004) Development of defensive behavior and conditioning to cat odor in the rat. *Physiol Behav*. 80 (4): 525-30.

**Yang M**, Augustsson H, Markham CM, Hubbard D, Webster D, Blanchard DC, Blanchard RJ (2004) Rat-exposure: a model of mouse defensive behaviors. *Physiology and Behavior* 81(3):465-73.

Wall PM, Blanchard DC, **Yang M**, Blanchard RJ (2003). Infralimbic D2 receptor influences on anxiety-like behavior and active working memory/attention in CD-1 mice. *Prog Neuropsychopharmacol Biol Psychiatry*. 27(3): 395-410.

Blanchard DC, Markham CM, **Yang M**, Hubbard D, Madarang E, Blanchard RJ (2003) Failure to produce conditioning with low-dose trimethylthiazoline or cat feces as unconditioned stimuli. *Behav Neurosci* 117(2):360-8.

Blanchard DC, Li CI, Hubbard D, Markham CM, **Yang M**, Takahashi LK, Blanchard RJ (2003) Dorsal preamillary nucleus differentially modulate defensive behaviors induced by different threat stimuli. *Neuroscience Lett.* 345(3): 145-148.

Blanchard RJ, **Yang M**, Li CI, Gervacio A, Blanchard DC (2001) Cue and context conditioning of defensive behaviors to cat odor stimuli. *Neurosci Biobehav Rev* 2001 Dec; 25(7-8):587-95.

#### **BOOK CHAPTERS:**

1. **Yang M**, Silverman J, Crawley JN (2011) Three-chambered social approach task for mice. *Current Protocols in Neuroscience*. Chapter 8:Unit8.26.
2. **Yang M**, Scattoni ML, Chadman CC, Silverman JL, Crawley JN (2011) Behavioral evaluation of genetic mouse models of autism. In: *Autism Spectrum Disorders*, Editors David Amaral, Geraldine Dawson, and Daniel Geschwind. Oxford University Press.
3. **Yang M**, Crawley JN (2009), Simple behavioral assessment of mouse olfaction. *Current Protocols in Neuroscience* 8:24.1.
4. Blanchard DC, **Yang M**, Hebert MA, Blanchard RJ (2007) Defensive behaviors. In: *Encyclopedia of Stress*. Editor George Fink. Academic Press, San Diego.
5. Blanchard DC, **Yang M**, Hebert MA, Blanchard RJ (2009) Defensive behaviors. In: *Stress Consequences: Mental, Neuropsychological and Socioeconomic*. Editor George Fink. Academic Press, San Diego.
6. Kazdoba TM, Leach PT, **Yang M**, Silverman JL, Solomon M, Crawley JN (2016). *Translational Mouse Models of Autism: Advancing Toward Pharmacological Therapeutics*. In: *Translational Neuropsychopharmacology (Current Topics in Behavioral Neurosciences)*. Editors Trevor Robbins and Susanne Dathe. Springer-Verlag, Berlin, Germany.

#### **AD HOC REVIEWER FOR SCIENTIFIC JOURNALS:**

*Autism Research*  
*Behavioural Brain Research*  
*Biological Psychiatry*  
*BMC Neuroscience*  
*Brain Research*  
*Cell*  
*Experimental Neurology*  
*Frontiers in Behavioral Neuroscience*  
*Gene, Brain and Behavior*  
*Human Molecular Genetics*  
*Molecular Autism*  
*Neuropeptides*

*Neuropharmacology*  
*Neuroscience Biobehavioral Reviews*  
*Neurotoxicology and Teratology*  
*Neurochemistry International*  
*Journal of Autism and Developmental Disorders*  
*Journal of Integrative Neuroscience*  
*Journal of Neuroscience*  
*Journal of Neurochemistry*  
*Journal of Neuroscience Research*  
*Journal of Psychopharmacology*  
*Pharmacology Biochemistry and Behavior*  
*Physiology and Behavior*  
*PLoSOne*  
*Progress in Neuropsychopharmacology & Biological Psychiatry*  
*Scientific Reports*  
*Translational Psychiatry*  
*IMFAR 2015 conference abstracts*

**INVITED LECTURES:**

1. National Institute of Health Office of Animal Care and Use, “Mouse Models of Autism-relevant Phenotypes”, April 2009, Bethesda, Maryland.
2. National Institute of Mental Health Scientific Retreat, “Social Peers Rescue Autism-like Phenotypes in Adolescent Mice”. September 2009, Gettysburg Pennsylvania.
3. International Behavioral Neuroscience Society annual meeting, “Social and environmental factors relevant to the development of sociability in inbred mice” May 2011, Steamboat Springs, Colorado.
4. Ultrasonic vocalizations and social behaviors in mouse models of autism (Co-presented with Crawley JN and Silverman JL). Mouse ultrasonic communication workshop. April, 2012, Institut Pasteur, Paris, France.
5. Mouse Models of Autism (Co-presented with Jacqueline N. Crawley and Jill L. Silverman). MIND Institute Research Seminar Series. November, 2012. University of California Davis, California.
6. 16p11.2 deletion syndrome mice display ultrasonic vocalization deficits during social interactions. Society for Neuroscience (SfN) Annual Meeting. November, 2014, Washington, D.C.
7. 16p11.2 deletion syndrome mice display ultrasonic vocalization deficits during social interactions. Biological Psychiatry Seminar Series. January, 2015 UC Davis.
8. 16p11.2 Deletion mice display cognitive deficits in touchscreen learning and novelty recognition tasks . International Meeting for Autism Research (IMFAR), May 2015, Salt Lake, Utah.



Mu Yang

9. Ultrasonic vocalization in mice: uses and limitations. Society for Neuroscience (SfN) Annual Meeting. Chicago, IL October 2015.
10. Mouse Models of Human Disorders: Uses and Limitations. Kallyope, New York, June 2017.
11. Mouse Models of Human Disorders: Uses and Limitations. Rutgers New Jersey Medical School, New Jersey, November 2018.
12. Behavioral phenotyping of mouse models of human disorders. New York Psychiatric Institute, New York, April 2019.

#### CONFERENCE PRESENTATIONS:

Blanchard, R.J.; Nikulina, J.; Kaawaloa, N.; Tamashiro, K.; **Yang, M.**; Gervacio, A; Blanchard, D. C. Alcohol Modulation of Cocaine's Defense Effects in the Mouse Defense Test Battery. Society for Neuroscience Annual Meeting, New Orleans, November, 2000.

Markham, C.M.; **Yang, M.**; Gervacio, A; Blanchard, R.J.; Blanchard, D.C. Amphetamine potentiates panic-like flight responses in laboratory animals. Society for Neuroscience Annual Meeting, New Orleans, November, 2000.

**Yang, M.**; Kaawaloa, J.N.; Markham, C.M.; Tamashiro, K.L.K.; Blanchard, R.J.; Blanchard, D.C. MDTB produces anxiolytic-like effects in mice treated with high dose cocaine and tested in the plus maze. Society for Neuroscience Annual Meeting, New Orleans, November, 2000.

**Yang, M.**; Blanchard, R.J.; Li, C.; Gervacio, A.; and Blanchard, D.C. Cue and context conditioning of defensive behaviors to cat odor stimuli. Society for Neuroscience Annual Meeting, San Diego, November, 2001.

Li, C.; **Yang, M.**; Markham, C.M.; Blanchard, D.C.; Blanchard, R.J. The effects of acute 7-OH-DPAT in mice in the mouse defense test battery. Society for Neuroscience Annual Meeting, San Diego, November, 2001.

Blanchard, R.J.; Markham, C.M.; **Yang, M.**; Blanchard, R.J. Effects of Testosterone "Clamp" on agonistic and dominance indices in VBS. Society for Neuroscience Annual Meeting, San Diego, November, 2001.

Markham, C.M.; Hubbard, D. T.; **Yang, M.**; Blanchard, R.J.; Blanchard, D. C. Unconditioned Fear and Contextual Conditioning of Rats exposed to Synthetic and Natural Predator Odors. Society for Neuroscience Annual Meeting, Orlando, November, 2002.

Blanchard, D. C.; Li, C. I.; Hubbard, D.; **Yang, M.**; Markham, C.; Takahashi, L. K. Dorsal preammylary nucleus lesions reduce defense to cat or cat odor with minimal effect on elevated plus maze anxiety. Society for Neuroscience Annual Meeting, Orlando, November, 2002.

**Yang, M.**; Markham, C.; Hubbard, D.; Blanchard, D. C.; Blanchard, R. J. Rat-Exposure: A New Naturalistic Model of Anxiety for Mice. Society for Neuroscience Annual Meeting, Orlando, November, 2002.

Blanchard, R. J.; Griebel, G.; Gully, D.; Serradeil-le Gal, C.; Markham, C.; **Yang, M.**; Blanchard, D. C. Effects of the V1b receptor antagonist, SSR149415 and the CRF1 receptor antagonist, SSR125543A in the VBS suggest antidepressant-like activity. Society for Neuroscience Annual Meeting, Orlando, November, 2002.

Wall, P. M.; Blanchard, R. J.; **Yang, M.**; Blanchard, D. C. Infralimbic D2 receptor influences on spontaneous alternation and anxiety in CD-1 mice. Society for Neuroscience Annual Meeting, Orlando, November, 2002.

Wall, P. M.; Blanchard, R. J.; **Yang, M.**; Blanchard, D. C. Differential effects of infralimbic vs. medial orbital PFC lidocaine infusions in CD-1 mice on defensive responding in the mouse defense test battery and rat exposure test. Society for Neuroscience Annual Meeting, New Orleans, November, 2003.

Blanchard, R.J.; Griebel, G; **Yang, M.**; Markham, C. M.; Farrokhi, C. F.; Blanchard, D. C. The AVP v1b receptor antagonist ssr149415 reduces aggressive behaviors in hamsters. Society for Neuroscience Annual Meeting, New Orleans, November, 2003.

Markham, C. M.; Griebel, G.; Farrokhi, C. F.; **Yang, M.**; Hubbard, D. T.; Blanchard, R. J.; Blanchard, D. C. The CRF1 receptor antagonist ssr125543a reduces aggressive behaviors in hamsters. Society for Neuroscience Annual Meeting, New Orleans, November, 2003.

**Yang, M.**; Augustsson, H.; Markham, C.; Blanchard, D. C.; Blanchard, R. J. Behavioral differences in four strains of mice in the rat exposure test (RET). Society for Neuroscience Annual Meeting, San Diego, November, 2004.

Blanchard, D.; **Yang, M.**; Markham, C. M.; Farrokhi, C. F.; Pentkowski, N. S.; Blanchard, R. J.; Griebel, G. Diazepam and buspirone effects in C57BL/6J mice in the rat exposure test (RET). Society for Neuroscience Annual Meeting, San Diego, November, 2004.

Farrokhi, C. F.; **Yang, M.**; Wall, P. M.; Blanchard, D. C.; Spiess, J.; Blanchard, R. J. Effects of the CRF antagonist astressin on defensive behaviors. Society for Neuroscience Annual Meeting, San Diego, November, 2004.

**Yang, M.**; Farrokhi, C.; Markham, C.; Spiess, J.; Blanchard, R. J.; Blanchard, D. C. Effects of icv injection of ovine CRF on defensive behaviors in the mouse defense test battery in CD-1 mice. Society for Neuroscience Annual Meeting, Washington DC, November, 2005.

Litvin, Y.; Blanchard, D. C.; Pentkowski, N.; **Yang, M.**; Blanchard, R. J. A pinch or a lesion: consequences of biting in mice. Society for Neuroscience Annual Meeting, Washington DC, November, 2005.

**Yang, M.**; Stocker, H.; Blanchard, R.J.; Blanchard, D.C. Effects of centrally administered crf2 antagonist antisauvagine-30 on mouse defensive behaviors. Society for Neuroscience Annual Meeting, Atlanta, November, 2006.

**Yang, M.;** Zhodzishsky, V.; Crawley, J.N. Social deficits in the BTBR mouse model of autism are unaffected by cross-fostering with a different maternal strain. Society for Neuroscience Annual Meeting, San Diego, November, 2007.

**Yang, M.;** Clarke, A.; Crawley, J.N. Corpus callosum reduction does not induce autism-like social deficits or repetitive behaviors in mice. Society for Neuroscience Annual Meeting, Washington DC, November, 2008.

**Yang, M.;** Perry, K.; Weber, M.; Crawley, J.N. Early Behavioral Intervention with Juvenile C57BL/6J Cagemates Improves Sociability in the BTBR Mouse Model of Autism. International Society for Autism Research Annual Meeting, Chicago, 2009.

Wohr, M.; **Yang, M.;** Rouillet, F. I.; Crawley, J.N. Mouse Ultrasonic Vocalization Analyses to Model Communication Deficits in Autism. International Society for Autism Research Annual Meeting, Chicago, 2009.

**Yang, M.;** Katz, A.M.; Weber, M.; Crawley, J. N. Influence of Partner Cues On Social Behaviors in the BTBR Mouse Model of Autism International Society for Autism Research Annual Meeting, Philadelphia, 2010.

**Yang, M.;** Scattoni, M.L.; Harris, M. J.; Katz, A. M.; Saxena, R.; Turner, S. M.; Woldeyohannes, L.; Rouillet, F. I.; Silverman, J. L.; Bozdagi, O.; Sakurai, T.; Buxbaum, J. D.; Crawley, J. N. Selective deficits in social interactions in Shank3 mutant mice. Society for Neuroscience Annual Meeting, San Diego, November, 2010.

Katz, A. M.; Woldeyohannes, L.; **Yang, M.;** Silverman, J. L.; Crawley, J. N. Neonatal and juvenile behavioral phenotypes in mice carrying a deletion of the neuroligin-4 gene. Society for Neuroscience Annual Meeting, San Diego, November, 2010.

**Yang M.;** Scattoni, M.L.; Katz, A.K.; Abrams, D.N.; Harris, M.J.; Saxena, R.; Simon, H.; Zhang, J. Y.; Wöhr, M.; Rouillet, F.I.; Silverman, J.L.; Bozdagi, O.; Sakurai, T.; Buxbaum, J.D.; Crawley, J.N. Evaluation of phenotypes relevant to autism and Phelan-McDermid Syndrome in Shank3 mutant mice. Phelan-McDermid Syndrome Symposium, New York, NY, March, 2011

**Yang, M.;** Abrams, D.N.; Zhang, J.Y.; Simon, H.A.; Katz, A.M.; Harrism M.J.; Saxena, R.; Wohr, M.; Scattoni, M.L.; Silverman, J.L.; Bozdagi, O.; Sakurai, T.; Buxbaum, J.D.; Crawley, J.N. Evaluation of phenotypes relevant to autism and Phelan-McDermid Syndrome in Shank3 mutant mice. Society for Neuroscience Annual Meeting, Washington D.C., November, 2011.

Jones-Davis, D.M.; **Yang, M.;** Rider, E.; Sen, S.; Crawley, J.N.; Sherr, E. Identification of loci associated with autism-relevant behavioral traits in the BTBR strain of mouse. Society for Neuroscience Annual Meeting, Washington D.C., November, 2011.

Babineau, B.A.; **Yang, M.;** Crawley, J.N. Home cage observations of interactions between low sociability BTBR T+tf/J juvenile mice reared with high sociability C57BL/6J juvenile mice. Society for Neuroscience Annual Meeting, Washington D.C., November, 2011.

**Yang, M.;** Kalikhman, D.L.; Loureiro, D.; Portmann, P.; Dolmetsch, R.E.; Crawley, J.N. Evaluation of autism-relevant phenotypes in a mouse model of 16p11.2 deletion syndrome. Society for Neuroscience Annual Meeting, New Orleans, November 2012.

Portmann, P.; Panagiotakos, G.; Mao, R.; Bader, P.; Dolen, G.; Grueter, B.A.; Miller, M.A.; **Yang, M.;** Crawley, J.N.; Malenka, R.; Shamloo, M.; Dolmetsch, R.E. A mouse model for the human chromosome 16p11.2 copy number variation. Society for Neuroscience Annual Meeting, New Orleans, November 2012.

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