

## **Mindy Waite, M.S., Ph.D., CAAB, CPDT-KA**

Curriculum Vitae  
December, 2019  
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### **EDUCATION**

- 2003-2007     **B.S., Genetics**, University of Wisconsin – Madison
- 2007-2012     **Ph.D., Molecular Biology**, University of Michigan – Ann Arbor  
Advisor: Donna Martin, MD, PhD. Donita B. Sullivan Research Professor in Pediatrics,  
Professor in Human Genetics.
- 2015-2019     **M.S., Behavior Analysis**, Marquette University  
Advisor: Tiffany Kodak, PhD, BCBA-D. Assistant Professor in Psychology.

### **HONORS/AWARDS**

#### **Awards**

- 2003-2007     University of Wisconsin-Madison Dean's Honors List
- 2006             Henry Steenbock Scholarship, University of Wisconsin
- 2011             Rackham Student Gov. President's Award, University of Michigan Graduate Student Gov.
- 2011             UM Health System Making a Difference Award, University of Michigan
- 2011             Student Service Award, University of Michigan Cellular & Molecular Biology

#### **Research Support Awards**

- 2006             Hilldale Undergraduate Research Fellowship, University of Wisconsin
- 2008             Cellular & Molecular Biology Fellowship Award, University of Michigan
- 2009             Rackham Graduate Student Research Grant, University of Michigan Graduate School
- 2010             Regents' Fellowship Award for CMB, University of Michigan Regents
- 2010             Spring/Summer Research Grant Award, University of Michigan
- 2011             Rackham Graduate Student Research Grant, University of Michigan
- 2011             Rackham Predoctoral Fellowship Award, University of Michigan Graduate School
- 2019             Scheik Travel Award, Marquette University
- 2019             Marian Breland-Bailey Award, Applied Animal Behavior Special Interest Group

### **PROFESSIONAL POSITIONS**

#### **Animal Behavior Professionals, LLC**

- 2018 -             **Canine Behavior Consultant and Trainer** Milwaukee, WI  
Provide in-home behavior consultation and training services for clients and their canines.

#### **Best Paw Forward** Pewaukee, WI

- 2015 - 2018     **Group Canine Training Instructor and Behavior Consultant**  
Lead instructor for canine training classes, including Puppy, Basic Manners, Puppy Agility,  
and Agility. Focus on teaching clients basic learning principles and training techniques.  
Provide in-home consultation for obedience training or canine behavioral issues.

### **Professional/Service Experiences**

2009 - 2011	Student Rep., UM Cellular & Molecular Biology Prog. Committee	Ann Arbor, MI
2010 - 2011	Treasurer/Interim VP, Rackham (Graduate) Student Government	Ann Arbor, MI
2011	Representative, Student Advocates for Graduate Education	Ann Arbor, MI
2016	Lead, Speaker Selection Committee, Interdisciplinary Forum for Applied Animal Behavior Conference	Phoenix, AZ
2016 -	Reviewer, Journal of Patient-Centered Research	Milwaukee, WI
2018 -	Public Day Coordinator, Animal Behavior Society	Various
2019 -	Co-director, Certified Applied Animal Behaviorist Podcasts	Milwaukee, WI
2020	Reviewer, Animal Behavior Society Student Research Grants	Milwaukee, WI

### **Professional Memberships**

2009 - 2012	Member, Society for Neuroscience
2014 - 2016	Member, Pet Professional Guild
2014 -	Member, Animal Behavior Society
2016 -	Member, Behavior Education Network
2017 -	Member, Wisconsin Association for Behavior Analysis
2017 -	Member, Applied Behavior Analysis International; Applied Animal Behavior Special Interest Group
2019 -	Member, Certified Applied Animal Behaviorists (Animal Behavior Society)

## **RESEARCH AND RELEVANT EXPERIENCE**

### **Research Experience**

2004 - 2007	<b>Undergraduate Research, Molecular &amp; Cellular Pharm.</b> <i>Advisor: Emery Bresnick, PhD</i> Study purpose was to identify the mechanism by which the HDAC inhibitor, Trichostatin A (TSA), inhibits NF-E2 expression in developing blood cells. These studies identified downstream genes regulated by TSA.	<i>University of Wisconsin</i>
2007 - 2012	<b>Doctoral Research, Cellular &amp; Molecular Biology</b> <i>Advisor/PI: Donna Martin, MD, PhD</i> Study to identify the mapping and requirements for the transcription factor, <i>Pitx2</i> , in mouse brain development. Results indicated that <i>Pitx2</i> is required for multiple aspects of brain development, including cellular migration, differentiation, and axonal development. These requirements are isoform-specific and cell-autonomous.	<i>University of Michigan</i>
2016 – 2019	<b>Master's Research, Behavior Analysis</b> <i>Advisor/PI: Tiffany Kodak, PhD, BCBA-D</i> Study to determine the efficacy of the functional analysis at identifying the function of mouthing behavior in companion canines to identify function-based interventions. Results suggest that the functional analysis can determine the function of mouthing behavior and inform efficacious, targeted interventions.	<i>Marquette University UW-Milwaukee</i>
2019 -	<b>Principal Investigator, Behavior Analysis</b> Research program focusing on the application of behavior analytic principles and procedures to improve companion animal behavior in order to maximize welfare for animals and their families.	<i>UW-Milwaukee</i>

## Teaching Experience

- 2009 **Teaching Assistant** (Graduate Student Instructor) *University of Michigan*  
Course: Organogenesis (CDB 680)  
Instructor: Deborah Gumucio, PhD
- 2010 - 2011 **Undergraduate Honors Thesis Instructor** *University of Michigan*  
Instructed undergraduate student in basic lab research and molecular biology concepts.
- 2018 - **Associate Lecturer** *UW-Milwaukee*  
Instructed undergraduate students in applied behavior analysis principles and procedures. Includes a laboratory component focusing on operationally defining and intervening on a behavior, summarized into an APA-formatted report.

## PUBLICATIONS/PRESENTATIONS

### Dissertation

*Title:* Pleiotropic and Isoform-Specific Functions of PITX2 in Brain Development.

*Committee:* Donna Martin, MD, PhD; Gregory Dressler, PhD; Sue O'Shea, PhD; Phillip Gage, PhD; Robert Thompson, PhD.

### Thesis

*Title:* Developing Functional Analysis-informed Interventions to Reduce Mouthing in Dogs

*Committee:* Tiffany Kodak, PhD, BCBA-D; Jeffrey Tiger, PhD, BCBA-D; Carla Lagorio, PhD.

### Peer-reviewed Publications

1. **Waite MR**, Skidmore JM, Billi AC, Martin JF, Martin DM. (2011). GABAergic and glutamatergic identities of developing midbrain Pitx2 neurons. *Developmental Dynamics*. 240(2), 333-46. PubMed PMID: [21246650](#); PubMed Central PMCID: [PMC3079949](#).
2. Skidmore JM, **Waite MR**, Alvarez-Bolado G, Puelles L, Martin DM. (2012). A novel TaulacZ allele reveals a requirement for Pitx2 in formation of the mammillothalamic tract. *Genesis*, 50, 67-73. PubMed PMID: [21898763](#).
3. **Waite MR\***, Skaggs K\*, Kaviany P, Skidmore JM, Causeret F, et al. (2012). Distinct populations of GABAergic neurons in mouse rhombomere 1 express but do not require the homeodomain transcription factor PITX2. *Molecular and Cellular Neuroscience*, 49, 32-43. PubMed PMID: [21925604](#); PubMed Central PMCID: [PMC3244529](#).  
\*Indicates co-authorship
4. **Waite MR**, Skidmore JM, Micucci JA, Shiratori H, Hamada H, et al. (2013). Pleiotropic and isoform-specific functions for Pitx2 in superior colliculus and hypothalamic neuronal development. *Molecular and Cellular Neuroscience*, 52, 128-39. PubMed PMID: [23147109](#); PubMed Central PMCID: [PMC3540135](#).
5. **Waite MR**, Martin DM. (2015) Axial level-specific regulation of neuronal development: lessons from PITX2. *Journal of Neuroscience Research*, 93(2), 195-8. PubMed PMID: [25124216](#).
6. **(under review) Waite MR**, Kodak TM. Developing functional analysis-informed interventions to reduce mouthing in dogs.
7. **(under review) Waite MR**, Harman M, Kodak, TM. Frequency and demographics of mouthing behavior in companion dogs in the United States.

## Presentations

1. **Waite MR**, Billi AC, Skidmore JM, Martin DM. Dual GABAergic and glutamatergic identities of developing midbrain *Pitx2* neurons. University of Michigan CMB Retreat, Kellogg Biological Station, 2012; Hickory Corners, MI.
2. **Waite MR**, Billi AC, Skidmore JM, Martin DM. Dual GABAergic and glutamatergic identities of developing midbrain *Pitx2* neurons. University of Michigan Mouse Club, University of Michigan, 2010; Ann Arbor, MI.
3. **Waite MR**, Skidmore JM, Kaviany P, Martin, JF Martin, DM. Pleiotropic and isoform-specific functions of PITX2 in the developing midbrain. University of Michigan Cellular & Molecular Biology Symposium, University of Michigan, 2010; Ann Arbor, MI.
4. **Waite MR**, Skidmore JM, Kaviany P, Martin, JF Martin, DM. Pleiotropic and isoform-specific functions of PITX2 in the developing midbrain. University of Michigan Stem Cell Club, University of Michigan, 2011; Ann Arbor, MI.
5. **Waite MR**, Skidmore JM, Kaviany P, Martin, JF Martin, DM. Pleiotropic and isoform-specific functions of PITX2 in the developing midbrain. University of Michigan Pediatrics Symposium, 2011; Ann Arbor.
6. **Waite MR**, Skidmore JM, Kaviany P, Martin, JF Martin, DM. Pleiotropic and isoform-specific functions of PITX2 in the developing brain. University of Michigan Thesis Defense, 2012; Ann Arbor, MI.
7. **Waite MR**. Does chronic SSRI treatment interfere with fear extinction in animals. Interdisciplinary Forum for Applied Animal Behavior; 2014 February; Phoenix, AZ.
8. **Waite MR**. Consultant-initiated follow-up improves client satisfaction and animal outcomes. Interdisciplinary Forum for Applied Animal Behavior; 2015 February; Fort Worth, TX.
9. **Waite MR**. Maximizing the fear extinction process. Interdisciplinary Forum for Applied Animal Behavior; 2016 February; Phoenix, AZ.
10. **Waite MR**. The brain and behavior: a complicated relationship; 2017 February; webinar, Behavior Education Network (Animal Behavior Associates).
11. **Waite MR**, Kodak TM. A functional analysis of dog mouthing on owners. AGSIP Symposium; 2017 May; Milwaukee, WI.
12. **Waite MR**, Kodak TM, Bergmann SCJ, Fulton CJ. Use of the functional analysis to identify the function of mouthing in dogs. Interdisciplinary Forum for Applied Animal Behavior; 2018 February; New Orleans, LA.
13. **Waite MR**, Kodak TM, Bergmann SCJ, Fulton CJ. Use of the functional analysis to identify the function of mouthing in dogs. Animal Behavior Society Conference; 2018 August; Milwaukee, WI.
14. **Waite MR**, Garlie N. Reinforcing meritorious, efficient research using a system-wide study authorization process. Society of Research Administrators International; 2019 April; Chicago, IL.
15. **Waite MR**, Kodak TM, Bergmann SCJ, Fulton CJ. Developing Functional Analysis-Informed Interventions to Reduce Mouthing in Dogs. Association for Behavior Analysis International Conference; 2019 May; Chicago, IL.

## Poster Presentations

1. **Waite MR**, Billi AC, Skidmore JM, Martin JF, Martin DM. PITX2 regulates midbrain neuron migration and neurogenesis in an isoform dosage-dependent manner. Annual Meeting of the Society for Neuroscience, Chicago, October 17-20, 2009.
2. Skidmore JM, **Waite MR**, Martin JF, Puellas L, Martin DM. PITX2 is required for proper projections of neurons in the tectum, tegmentum, hypothalamus, and rostral hindbrain. Annual Meeting of the Society for Neuroscience, Chicago, October 17-20, 2009.

3. **Waite MR**, Billi AC, Skidmore JM, Martin JF, Martin DM. PITX2 regulates midbrain neuron migration and neurogenesis in an isoform dosage-dependent manner. University of Michigan Pediatrics Symposium, Ann Arbor, November 9-10, 2009.
4. **Waite MR**, Billi AC, Skidmore JM, Martin DM. Dual GABAergic and glutamatergic identities for midbrain *Pitx2* neurons. Gordon Conference: Neural Development, Rhode Island, August 15-20, 2010.
5. **Waite MR**, Billi AC, Skidmore JM, Martin DM. Dual GABAergic and glutamatergic identities for midbrain *Pitx2* neurons. University of Michigan Pediatrics Symposium, Ann Arbor, October 11-12, 2010.
6. **Waite MR**, Skidmore JM, Kaviyany P, Martin, JF Martin, DM. Pleiotropic and isoform-specific functions of PITX2 in the developing midbrain. Annual Meeting of the Society for Neuroscience, Washington DC, DC, November 12-16, 2011.
7. **Waite MR**, Kodak TM, Bergmann SCJ, Fulton CJ. Use of the functional analysis to identify the function of mouthing in dogs. Midwest Applied Behavior Analysis Conference; 2018 September; Normal, IL.
8. **Waite MR**, Kodak TM, Bergmann SCJ, Fulton CJ, Halbur ME. Developing functional analysis-informed interventions to reduce mouthing in dogs. Wisconsin Applied Behavior Analysis Conference; 2019 August; Milwaukee, WI.