

# *Elizabeth A. West*

Department of Cell Biology and Neuroscience  
Rowan University School of Osteopathic Medicine, Stratford, NJ  
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**Rowan University School of Osteopathic Medicine, Stratford, NJ** 2019-present  
Assistant Professor  
Department of Cell Biology and Neuroscience

## **EDUCATION AND TRAINING**

**University of North Carolina, Chapel Hill, NC** 2012-2019  
Postdoctoral Fellow  
Department of Psychology and Neuroscience

**Georgetown University, Washington, DC** 2012  
Ph.D., Neuroscience  
Department of Pharmacology and Physiology

**University of Delaware, Newark, DE** 2006  
B.A., Biology and Psychology with an emphasis in Neuroscience  
Department of Psychology

**AstraZeneca Pharmaceuticals, Wilmington, DE** 2003-2006  
Behavioral Pharmacology Intern  
Department of Neuroscience

## **EXTERNAL RESEARCH SUPPORT**

### **Ongoing**

**PI**, National Institute on Aging, R00 DA042934-05S2, “Neural circuitry mediating behavioral flexibility,” ADRD Supplement. **Direct Cost:** \$177,998. 03/1/22-2/28/23.

**Major User**, National Institute of Health, S10 OD032124, “Andor Dragonfly 201 Spinning Disk Confocal Microscope System”. **Direct Cost:** \$243,541. 04/15/22-04/14/23 (**PI:** Carone).

**PI**, National Institute on Drug Abuse, R00 DA042934-05S1, “ $\beta$ 1 noradrenergic blockade in early withdrawal to reduce cocaine induced behavioral flexibility deficits”. **Direct Cost:** \$33,036. 03/1/22-2/28/23. **Post-baccalaureate Scholar:** Leighelle Adrian

**PI**, National Institute on Aging, R21 AG072355, “Prefrontal neural modulation to restore cognitive deficits in an Alzheimer's disease rat model”, **Direct Cost:** \$275,000. 02/15/22-01/31/24.

**PI**, Brain and Behavior Research Foundation, Young Investigator Grant, “Cortical GABAergic signaling to drug vs nondrug reward cues”, **Direct Cost:** \$69,997. 01/15/22-01/14/24.

**PI**, National Institute on Drug Abuse, K99/R00 DA042934, “Neural circuitry mediating behavioral flexibility,” **Direct Cost:** \$738,000. 9/1/17-2/28/23.

## Completed

**PI**, National Institute on Aging, R00DA04934-03S1, “Neural circuitry mediating behavioral flexibility”

**Direct Cost:** \$222,084. ADRD Supplement. 03/01/20-02/28/21

**PI**, National Institute on Drug Abuse, F32 DA037733, “The role of accumbens neural activity and

dopamine release in flexible behavior,” **Direct Cost:** \$166,643 09/01/14-08/31/17

**PI**, National Institute on Drug Abuse, F31 DA026705, “The role of the orbitofrontal cortex in goal-

directed behavior,” **Direct Cost:** \$41,800. 02/01/11-01/31/12

## AWARDS AND HONORS

Brain and Behavior Research Foundation Young Investigator	2021
K99/R00 Pathway to Independence (NIDA)	2017-2019
American College of Neuropsychopharmacology (ACNP) Travel Award	2017
Postdoctoral Individual NRSA Fellowship (NIDA)	2014-2017
Predocotrual Individual NRSA Fellowship (NIDA)	2011-2012
Georgetown University MCGSO Travel Award	2011
University of Delaware Honors Award	2004
University of Delaware Honors Merit Scholarship	2002-2006

## TEACHING EXPERIENCE

<i>Scientific Writing, Lecturer, Rowan University</i>	2022-present
<i>Neuropharmacology and Behavior, Lecturer, Rowan University</i>	2022-present
<i>Fundamentals of Neuroscience, Co-Course Director, Rowan University</i>	2021-present
<i>Neurophysiology, Lecturer, Rowan University</i>	2021-present
<i>Fundamentals of Neuroscience, Lecturer, Rowan University</i>	2020-2021
<i>Learning, Lecturer, University of North Carolina</i>	2015
<i>Drugs, Brain and Behavior, Co-Course Director, Georgetown University</i>	2009
<i>Neurobiology of Disease, Teaching Assistant, Georgetown University</i>	2008-2010
<i>Drugs, Brain and Behavior, Lecturer, Georgetown University</i>	2007-2011
<i>Introduction to Biology, Teaching Assistant, University of Delaware</i>	2005

## MENTORING EXPERIENCE

### *Mentees*

#### *Post-doctoral Scholars*

Dylan Crawford, Ph.D. (2023-present, co-mentored with Dr. Rachel Navarra)

Claire Corbett, Ph.D. (2022-present)

#### *Graduate Students*

Benjamin Dunham (2023-present), Rowan University, GSBS Doctoral Student

Brianna Linneman (2022-present), Rowan University, GSBS Doctoral Student

Eleni Papadopoulos (2022), Rowan University, GSBS Rotation Student

Corrine Gallagher (2021), Rowan University, GSBS Rotation Student

T. Joseph Sloand (2021-present), Rowan University, GSBS Doctoral Student

Bhumiben Patel (2020), Rowan University, GSBS Rotation Student  
Damini Kashyap (2020), Rowan University, GSBS Master's Student

#### *Medical Students*

Philip Kumpf (2021), Rowan University SOM, Summer Medical Research Fellowship  
Paul Kumpf (2021), Rowan University SOM, Summer Medical Research Fellowship

#### *Undergraduate Students*

Savana Coraggio (2022-present), Rowan University  
Anjali Patel (2021-present), Rowan University  
Taqdees Gohar (2020-2022), Rutgers University-Camden, MARC undergraduate student  
Heather Ortega (2017-2018), University of North Carolina, McNair Scholars Program, Peele Memorial Research Award Recipient, Undergraduate Honors Thesis student  
David McCue (2008-2011), Georgetown University, HHMI Research Scholar and Undergraduate Thesis Student  
Alice Murnen (2008-2010), Georgetown University, GUROP recipient and Undergraduate Thesis Student

#### *Thesis Committee Member*

Benjamin Dunham (2023-present), Rowan University GSBS, Mentor  
Brianna Linneman (2023-present), Rowan University GSBS, Mentor  
David Kahn (2022-present), Rowan University GSBS, Chair  
Timothy (Joey) Sloand (2021-present), Rowan University GSBS, Mentor  
Bhumiben Patel (2021-present), Rowan University GSBS, Chair  
Erin Wannan (2021-present), Rowan University GSBS, Member  
Arthur Reyes (2021-present), Rowan University GSBS, Member  
Haven Predale (2021-present), Rowan University GSBS, Member  
Metika Ngbokoli (2021-present), University of North Carolina at Chapel Hill, Member  
Nicole Hinds (2020-present), Rowan University GSBS, Chair  
John Tkaczynski (2020-present), Rowan University GSBS, Member

### **ADMINISTRATIVE EXPERIENCE**

<i>Cell and Molecular Biology Ombudsperson</i> , Rowan University GSBS	2022-present
<i>Curriculum Committee</i> , Rowan University GSBS	2022-present
<i>Seminar Committee</i> , Rowan University Cell Biology and Neuroscience, co-chair	2021-present
<i>Admission and Recruitment Committee</i> , Rowan University GSBS	2021-present
<i>Neuroscience Curriculum Committee</i> , Rowan University GSBS	2020-2021

### **PROFESSIONAL SERVICES**

#### *Journal Reviewer (Ad-hoc):*

*Neuropharmacology, Addiction Neuroscience, Cerebral Cortex, Psychopharmacology, Plos One, Neurobiology of Stress, Biological Psychiatry, Neuron, Nature*

#### *Grant Reviewer (Ad-hoc):*

Georgetown University Pilot Grant Program, 2012  
K-INBRE, External Reviewer, 2020  
Willy Gepts Research Foundation, External Reviewer, 2021

*Editor (Ad-hoc)*

Brain Research Bulletin, Special Issue “Addiction III” (*guest editor*)

Frontiers in Behavioral Neuroscience (*reviewing editor*)

## Seminars

University of North Carolina, Department of Psychology, 2013

University of North Carolina, Department of Psychology, 2015

University of Maryland, Maryland Psychiatric Research Center, 2017

Georgetown University, Department of Pharmacology, 2018

Uniformed Service University, Department of Psychiatry, 2018

Emory University, Department of Psychology, 2018

University of Pennsylvania, Department of Psychiatry, 2018

University of South Carolina, Department of Pharmacology, Physiology and Neuroscience, 2018

University of North Carolina, Department of Psychology, 2018

Virginia Commonwealth University, Department of Anatomy and Neurobiology, 2018

University of Alabama, Birmingham, Department of Neurobiology, 2018

University of Nebraska-Lincoln, Department of Psychology, 2018

University of California- Riverside, Department of Psychology, 2019

Rowan University, Department of Cell Biology and Neuroscience, 2019

Binghamton University, Department of Psychology, 2019

University of Delaware, Department of Psychology, 2020

Rowan University SOM, 25<sup>th</sup> Annual Research Day, 2021

University of Texas, El Paso, Department of Biology, 2022

American Psychiatric Association, Annual Meeting, New Orleans, LA, 2022

International Society for Behavioral Neuroscience, Annual Meeting, Glasgow, Scotland, 2022

## PUBLICATIONS

- [1] Niedringhaus M, **West EA**. Prelimbic cortex neural encoding dynamically tracks expected outcome value. *Physiology and Behavior*. 2022. Nov 1; 256: 113938. <https://doi.org/10.1016/j.physbeh.2022.113938>
- [2] **West EA\***, Niedringhaus M\*, Ortega HK, Haake RM, Frohlich F, Carelli RM. Noninvasive brain stimulation rescues cocaine-induced prefrontal hypoactivity and restores flexible behavior. *Biological Psychiatry*. 2021. May 15; 89(10):1001-1011. [dio:10.1016/j.biopsych.2020.12.02](https://doi.org/10.1016/j.biopsych.2020.12.02). Commentary by Vaughn Steel, *A circuit-based approach to treating substance use disorders with noninvasive brain stimulation*.
- [3] Haake RM, **West EA**, Wang X, Carelli RM. Drug-induced dysphoria is enhanced following prolonged cocaine abstinence and dynamically tracked by nucleus accumbens neurons. *Addiction Biology*. Jul; 24(4):631-640, 2019. [doi: 10.1111/adb.12627](https://doi.org/10.1111/adb.12627).
- [4] **West EA**, Moschak TM, Carelli RM. Distinct functional microcircuits in the nucleus accumbens underlying goal-directed decision making. In: *Understanding Goal-Directed Decision Making: Computations and Circuits* (eds. Richard Morris, Aaron Bornstein, and Amitai Shenhav). Elsevier. 199-219, 2018.
- [5] Hurley SW, **West EA**, Carelli RM. Opposing roles of rapid dopamine signaling across the rostral-caudal axis of the nucleus accumbens shell in drug-induced negative affect. *Biological Psychiatry*. 82 (11): 839-846, 2017. PMID: PMC5675798.
- [6] Forcelli PA, DesJardin JT, **West EA**, Holmes A, Elorette C, Wellman LL, Malkova L. Amygdala

- inactivation attenuates defense responses evoked from the superior colliculus in non-human primates. *Soc Cogn Affect Neurosci.* 11 (12): 2009-2019, 2016. PMID: PMC5141962.
- [7] **West EA**, Carelli RM. Nucleus accumbens core and shell differentially encode reward-associated cues after reward devaluation. *J. Neurosci.* 36(4):1128-39, 2016. PMID: PMC4728721. Featured article with commentary by Theresa Eden, *Accumbens shell reflects reward devaluation.*
- [8] **West EA**, Saddoris MP, Kerfoot EC, Carelli RM. Prelimbic and Infralimbic cortical regions differentially encode cocaine-associated stimuli and cocaine-seeking before and following abstinence. *Eur J Neurosci.* 39(11):1891-902, 2014. PMID: PMC4260329.
- [9] Carelli RM, **West EA**. When a good taste turns bad: Neural mechanisms underlying the emergence of negative affect and associated natural reward devaluation by cocaine. *Neuropharmacology.* 76: 360–369, 2014. PMID: PMC4160877
- [10] **West EA**, Forcelli PA, McCue DL, Malkova L. Differential effects of serotonin-specific and excitotoxic lesions of OFC on conditioned reinforcer devaluation and extinction in rats. *Behav Brain Res.* 246(1): 10-14, 2013. PMID: PMC3633724.
- [11] Holmes AL, Forcelli PA, DesJardin JT, Decker AL, Teferra M, **West EA**, Malkova L, Gale K. Superior colliculus mediates cervical dystonia evoked by inhibition of the substantia nigra pars reticulata. *J Neurosci.* 32(38): 13326-32, 2012. PMID: PMC3752088
- [12] **West EA**, Forcelli PA, Murnen AT, McCue DL, Gale K, Malkova L. Transient inactivation of basolateral amygdala during selective satiation disrupts reinforcer devaluation in rats. *Behav Neurosci.* 126(4):563-74, 2012. PMID: PMC3432320
- [13] Forcelli PA\*, **West EA\***, Murnen AT, Malkova L. Ventral pallidum mediates amygdala-evoked deficits in prepulse inhibition. *Behav Neurosci.* 126(2): 290-300, 2012. PMID: PMC3314164
- [14] **West EA**, DesJardin JT, Gale K, Malkova L. Transient inactivation of orbitofrontal cortex disrupts reinforcer devaluation in macaques. *J Neurosci.* 31(42):15128-35, 2011. PMID: PMC3224797
- [15] **West EA**, Forcelli PA, Murnen A, Gale K, Malkova L. A visual, position-independent instrumental reinforcer devaluation task for rats. *J Neurosci Methods.* 194(2): 297-304, 2011. PMID: PMC3015218
- [16] Rosen JB, Donley MP, Gray D, **West EA**, Morgan MA, Schulkin J. Chronic corticosterone administration does not potentiate unconditioned freezing to the predator odor, trimethylthiazoline. *Behav Brain Res.* 194(1): 32-38, 2008
- [17] Rosen JB, **West EA**, Donley MP. Not all rat strains are equal: Differential unconditioned fear responses to the synthetic fox odor trimethylthiazoline in three outbred rat strains. *Behav Neurosci.* 120(2): 290-7, 2006.

## COMPLETE LIST OF PUBLICATIONS

NCBI:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/elizabeth.west.1/bibliography/41167518/public/?sort=date&direction=descending>

Google Scholar:

<https://scholar.google.com/citations?user=a6N3RbsAAAAJ&hl=en>

## ABSTRACTS

- [1] Niedringhaus M, Adrian LA, Sloand, TJ, **West EA**. Cocaine induced neurophysiological alterations in corticostriatal circuits to reward predictive cues following outcome devaluation. ACNP 61<sup>th</sup> Annual Meeting, 2022.

- [2] Sloand TJ, Niedringhaus M, **West EA**. Prelimbic cortex neural encoding in an Alzheimer's disease rat model during an outcome devaluation task. Society for Neuroscience Abstract, 2022.
- [3] Adrian LA, Sloand TJ, Ciacciarelli EJ, Niedringhaus M, **West EA**. Cocaine induced alterations in infralimbic cortex and dorsal lateral striatum neural encoding to reward predictive cues following outcome devaluation. Society for Neuroscience Abstract, 2022.
- [4] Ciacciarelli, EJ, Dunn, S.D, Niedringhaus, M., Sloand, TJ, Gohar, T, Adrian, LA, **West EA**. Nucleus reuniens to prefrontal cortex circuit is critical for performance on a delayed nonmatch to position task. Society for Neuroscience Abstract, 2022.
- [5] Niedringhaus M, **West EA**. Prelimbic cortex encoding of reward-predictive cues following devaluation. International Behavioral Neuroscience Society, 2022.
- [6] Sloand TJ, Niedringhaus M, **West EA**. Prelimbic cortex neural encoding in an Alzheimer's disease rat model during an outcome devaluation task. International Behavioral Neuroscience Society, 2022.
- [7] Niedringhaus M, Sloand TJ, **West EA**. Prelimbic cortex encoding of reward-predictive cues following outcome devaluation. ACNP 60<sup>th</sup> Annual Meeting, 2021.
- [8] Sloand TJ, Niedringhaus M, **West EA**. Medial prefrontal cortex neural encoding in an Alzheimer's disease rat model during an outcome devaluation task. Society for Neuroscience, 2021.
- [9] Dunn, SD, Ciacciarelli EJ, Gohar T, Kumpf PC, Kumpf PD, Sloand TJ, Niedringhaus M, **West EA**. Transient inactivation of the nucleus reuniens, but not dorsal hippocampus, impairs performance on a delayed nonmatch to position task. Society for Neuroscience, 2021
- [10] Gohar T, Dunn SD, **West EA**. The effects of sex in Fischer F344 rats on a delayed nonmatch to position task. Society for Neuroscience, 2021
- [11] Dunn, SD, Gohar T, Niedringhaus M, **West EA**. Nucleus reuniens inactivation impairs performance on a delayed nonmatch to position task. International Behavioral Neuroscience Society, 2021.
- [12] Gohar T, Dunn SD, **West EA**. The effects of sex in Fischer F344 rats on a delayed nonmatch to position task. International Behavioral Neuroscience Society, 2021.
- [13] **West EA**, Niedringhaus M, Sloand TJ, Carelli RM. Optogenetic stimulation of the prefrontal cortex to nucleus accumbens core pathway reverses cocaine-induced deficits in behavioral flexibility. ACNP 58th Annual Meeting. 2019.
- [14] **West EA**, Niedringhaus M, Sloand TJ, Carelli RM. Targeted optogenetic stimulation of the prefrontal cortex to nucleus accumbens core pathway restores behavioral flexibility following a history of cocaine exposure. Society for Neuroscience Abstract, 2019.
- [15] Haake RM, Niedringhaus M, Moschak TM, West EA, Frohlich F, Carelli RM. Effects of prolonged cocaine abstinence on neural activity in the prefrontal cortex and nucleus accumbens core. Society for Neuroscience Abstract, 2019.
- [16] **West EA**, Niedringhaus M, Ortega HK, Haake RM, Frohlich F, Carelli RM. High frequency transcranial alternating current stimulation restores cocaine-induced behavioral flexibility deficits and underlying altered neural activity in rats Carolina Neurostimulation Conference, 2019.
- [17] Haake RM, Niedringhaus M, Moschak TM, **West EA**, Frohlich F, Carelli RM. The effects of transcranial alternating current stimulation on heightened cocaine seeking following prolonged abstinence in rats. Carolina Neurostimulation Conference, 2019.
- [18] **West E**, Niedringhaus M, Ortega H, Haake R, Carelli R., A History of Cocaine Alters Prefrontal to Accumbens Neural Activity During Learning and Impairs Subsequent Behavioral Flexibility. ACNP 57th Annual Meeting. 2018.
- [19] **West EA**, Niedringhaus M, Carelli RM. Prefrontal-accumbal pathway encoding during learning predicts and is causally linked to behavioral flexibility. Society for Neuroscience Abstract, 2018.
- [20] **West EA**, Niedringhaus M, Haake RM, Ortega, HK Frohlich F, Carelli RM. The effects of transcranial alternating current stimulation on cocaine-induced deficits in behavioral flexibility in rats. Carolina Neurostimulation Conference, 2018.

- [21] Haake, RM, Niedringhaus M, Moschak, TM, **West EA**, Frohlich F, Carelli RM. The effects of transcranial alternating current stimulation on heightened cocaine seeking following prolonged abstinence in rats. Carolina Neurostimulation Conference, 2018.
- [22] **West E**, Niedringhaus M, Ortega H, Haake R, Carelli R. Performance in a Reinforcer Devaluation Task is Casually Linked to PrL to NAc Transmission Suggesting a Mechanism for Cocaine-Induced Impairments in Flexible Behavior. ACNP 56th Annual Meeting. 2017.
- [23] **West EA**, Niedringhaus M, Ortega HK, Haake RM, Carelli RM. A history of cocaine alters prelimbic neuronal activity during learning and impairs subsequent reinforcer devaluation. Society for Neuroscience Abstract, 607.01, 2017.
- [24] Haake RM, Niedringhaus M, **West EA**, Carelli RM. Effects of abstinence from cocaine self-administration on basal cell firing dynamics in prelimbic cortex and nucleus accumbens core. Society for Neuroscience Abstract, 607.02, 2017.
- [25] **West EA**, Niedringhaus M., Carelli RM. Prelimbic neurons encode reward predictive cues following reward devaluation. Society for Neuroscience Abstract 837.01. 2016.
- [26] Niedringhaus M., **West EA**, Sackett DA, Carelli RM. Oscillatory dynamics in the prelimbic cortex form to a reward-predictive cue following learning. Society for Neuroscience Abstract 837.02. 2016.
- [27] Haake RM, **West EA**, Wang X, Thomas EL, Carelli RM. Enhancement of negative affect by abstinence from cocaine in a preclinical model. Society for Neuroscience Abstract, 349.09, 2016.
- [28] Hurley SW, **West EA**, Carelli RM. Optogenetics reveals that dopamine signaling in the rostral-caudal NAc shell differentially inhibits/facilitates cocaine-induced natural reward devaluation and negative affect in a preclinical model. Society for Neuroscience Abstract, 349.13. 2016.
- [29] Moschak TM, **West EA**, Haake RM, Wang X, Carelli RM. Neural activity in the anterior insula tracks cocaine-induced devaluation of natural rewards. Society for Neuroscience Abstract. 349.01, 2016.
- [30] **West EA**, Thomas EL, Carelli RM. Nucleus accumbens subregions (core vs shell) differentially encode reward-associated cues following reinforcer devaluation. Society for Neuroscience Abstract. 2015.
- [31] **West EA**, Thomas EL, Carelli RM. Dynamic shifts in nucleus accumbens neural encoding of reward-associated cues following reinforcer devaluation. Society for Neuroscience Abstract. 2014.
- [32] Presker MA, **West EA**, Carelli RM. Effects of prolonged abstinence on cocaine-induced negative affect and the encoding of this information by nucleus accumbens neurons. Society for Neuroscience Abstract. 2014.
- [33] **West EA**, Green JL, Saddoris MP, Carelli RM. Effects of cocaine abstinence on nucleus accumbens cell firing during drug-induced devaluation of a natural reward. Society for Neuroscience Abstract. 295.09, 2012.
- [34] **West E**, Forcelli PA, McCue D, Gale K, Malkova L. Reinforcer devaluation is impaired by either excitotoxic or serotonin specific orbitofrontal cortex lesions in rats. Society for Neuroscience Abstract 511.23, 2011.
- [35] **West E**, Forcelli PA, Gale K. Neurobiology of Disease: Linking animal models to human disorders. Society for Neuroscience Abstract 25.04SA, 2011.
- [36] **West EA**, Forcelli PA, McCue D, Gale K, Malkova L. Orbitofrontal cortex and basolateral amygdala lesions impair reinforcer devaluation in rats. NYAS: Critical Contributions of the Orbitofrontal Cortex to Behavior, 2011.
- [37] Malkova L, **West EA**, DesJardin D, Gale K. Different contribution of orbital frontal cortex and basolateral amygdala to reinforcer devaluation. NYAS: Critical Contributions of the Orbitofrontal Cortex to Behavior, 2011.
- [38] **West E**, Forcelli, PA, Murnen A, McCue D, Gale K, and Malkova L. Basolateral amygdala inactivation impairs reinforcer devaluation in rats: Comparison with monkeys. Society for Neuroscience Abstract 707.12, 2010.

- [39] Murnen A, Forcelli PA, **West E**, Malkova L, and Gale K. Amygdala-ventral pallidum interactions in modulating prepulse inhibition (PPI). Society for Neuroscience Abstract 61.9, 2010.
- [40] Malkova L, **West EA**, DesJardin J, Gale K. Pharmacological inactivation of orbital frontal cortex impairs reinforcer devaluation in monkeys. Society for Neuroscience Abstract 707.11, 2010.
- [41] Ullrich L, Forcelli PA, **West E**, and Gale K. A course within a course: Learning to teach through teaching neuroscience. Society for Neuroscience Abstract 26.21, 2010.
- [42] **West E**, Forcelli P, Murnen A, Gale K, Malkova L. A new reinforcer devaluation task using visual cues in rodents. Society for Neuroscience Abstract 683.9, 2009.
- [43] Holmes AL, Decker A, **West E**, DesJardin J, Teferra M, Malkova L, Gale K. GABAergic nigrotectal projections mediate specific nigra-evoked motor abnormalities. Society for Neuroscience Abstract. 661.18, 2009.
- [44] Holmes AL, Teferra M, **West E**, Decker A, Malkova L, Gale K. GABAergic nigrotectal projections mediate nigra-evoked dystonia and dyskinesia. Society for Neuroscience Abstract. 318.7, 2008.
- [45] **West E**, Sutton EB, Evenden J. The effects of psychotomimetic drugs on prepulse inhibition in the guinea pig. Society for Neuroscience Abstract. 587.1, 2006.
- [46] Widzowski DV, **West E**, Sydserff SG. Sleep-inducing GABA<sub>A</sub>-positive modulators but not other sleep-inducing agents partially generalize to the zolpidem discriminative stimulus in rats. Society for Neuroscience Abstract. 768.8, 2006.
- [47] Rosen JB, **West EA**, Donley MP. Differences Across Rat Strains in Unconditioned Fear Predatory Odor, but Not in Avoidance or Odor-pair Shock Fear Conditioning. Society for Neuroscience Abstract, 416.12. 2005.
- [48] Rosen JB, **West EA**, Schulkin J. Corticosterone Potentiates Predator (fox) Odor Induced Unconditioned Fear. Society for Neuroscience Abstract. 772.7. 2004.