

## Sarah Meerts, Ph.D.

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### Education

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2008	Dartmouth College	Ph.D. Psychological and Brain Sciences
2001	Vassar College	B.A. <i>with Departmental Honors</i> , Biopsychology

### Academic Appointments

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2020-present	Carleton College	Associate Professor of Neuroscience & Psychology
2017-2021	Carleton College	Director of Neuroscience
2017-2020	Carleton College	Associate Professor of Psychology
2011-2017	Carleton College	Assistant Professor of Psychology
2009-2011	Michigan State University Neuroscience Program	Postdoctoral Research Fellow Advisor: Cheryl L. Sisk
2008	Dartmouth College Psychological and Brain Sciences	Postdoctoral Research Associate Advisor: Ann S. Clark

### Awards

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2020-21	Targeted Opportunity Grant: <i>Expanding the Neuroscience Toolkit to Include Programming Languages</i>
2017-18	Broadening the Bridge; <i>Society for Neuroscience-Based Seminar</i>
2016	Writing Across the Curriculum Grant: <i>Preparing Students for Scientific Writing Success</i>
2016	Future Learning Technologies Grant: <i>Behavioral Neuroscience Online Resource</i>
2016-17	Targeted Opportunity Grant: <i>Exploring effects of mating experience on reproductive success</i>
2015-16	Broadening the Bridge: <i>Initiating the Cannon Callosum Colloquium</i>
2014-15	Hewlett Mellon Fellowship, Carleton College
2012	Gilman Grant, Carleton College
2010-2011	Institutional Postdoctoral Fellowship from National Institutes of Health training grant award to the Neuroscience Program, Michigan State University
2010	Travel Award, Postdoctoral Association, Michigan State University
2009-2011	Michigan State University Office of the Provost Postdoctoral Fellowship
2007	American Psychological Association, Dissertation Research Award
2007	Marie A. Center 1982 Award for Excellence in Research, Dartmouth College, Department of Psychological and Brain Sciences

### Courses Taught

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Principles of Psychology	Special Topics in Psychological Research
Foundations in Neuroscience	Seminar: Neurobiology of Motivated Behavior
Hormones, Brain, & Behavior	Seminar: Neurochemistry of Love and Sex
Behavioral Neuroscience	Seminar: Hot off the Bench: Advanced Topics in Neuroscience (SfN based)
Laboratory in Behavioral Neuroscience	
Psychology Capstone Seminar	
Neuroscience Capstone Seminar	

## **Publications** (\* indicates Carleton student)

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- Marshall\*, G.E., Guarraci, F.A., **Meerts, S.H.** (2020) II. Antidepressants and sexual behavior: Acute fluoxetine, but not ketamine, disrupts paced mating behavior in sexually experienced female rats. *Pharmacol Biochem Behav.* 199, 173040. doi: 10.1016/j.pbb.2020.173040
- Guarraci, F.A., Ali, M., Gonzalez, C.M.F., Lucro, D., Clemons, L.W., Davis, L.K., Henneman, E., Odell, S. **Meerts, S.H.** (2020) I. Antidepressants and sexual behavior: Weekly ketamine injections increased sexual behavior initially in female and male rats. *Pharmacol Biochem Behav.* 199, 173039. doi: 10.1016/j.pbb.2020.173039
- Guarraci F.A., Gonzalez C.M.F., Lucero D., Davis L.K., **Meerts S.H.** (2019). Sexual behavior is enhanced by regular, repeated mating from young adulthood to middle age in female Long-Evans rats. *Curr Aging Sci* doi: 10.2174/1874609812666191210123559
- Piergies\*, A.M.H, Hicks\*, Jr., M.E., Schwartz\*, J.P., **Meerts, S.H.** (2019). Sexually experienced, but not naïve, female rats show a conditioned object preference (COP) for mating after a single training trial. *Physiol Behav*, 198, 42-47. doi: 10.1016/j.physbeh.2018.09.017
- Arnold\*, M.R., Thallon\*, C.L., Pitkofsky\*, J.A., **Meerts, S.H.** (2018). Sexual experience confers resilience to restraint stress in female rats. *Horm Behav*, 107: 61-66. doi: 10.1016/j.yhbeh.2018.12.003.
- Guarraci, F.A. & **Meerts, S.H.** (2017). Does practice make perfect? Sexual experience and psychomotor stimulants influence female sexual motivation through medial preoptic area dopamine. *Curr Sex Health Rep*, 9(1), 57-64. doi: 10.1007/s11930-017-0102-9
- Meerts, S.H.**, Anderson\*, K.S., Farry-Thorn\*, M.E., Johnson\*, E.G., & Taxier\*, L. (2017). Prepubertal ovariectomy modulates paced mating behavior but not sexual preference or conditioned place preference for mating in female rats. *Physiol Behav*, 171, 142-148. doi:10.1016/j.physbeh.2017.01.012
- Meerts, S.H.**, Park\*, J., & Sekhawat\*, R. (2016). Sexual experienced modulates partner preference and mPOA nitric oxide synthase in female rats. *Behav Neurosci* 130, 490-499 doi: 10.1037/bne0000163
- Guterl\*, S.A., McNamara\*, T.A., Klumpp\*, G.C., & **Meerts, S.H.** (2015). Female rats express a conditioned object preference for receipt of sexual stimulation. *Physiol Behav* 151, 320-326. doi: 10.1016/j.physbeh.2015.07.040.
- Meerts, S.H.**, Strnad\*, H.K., & Schairer\*, R.S. (2015). Paced mating behavior is affected by clitoral-vaginal lidocaine application in combination with sexual experience. *Physiol Behav.* 140, 222-229. doi: 10.1016/j.physbeh.2014.12.043
- Meerts, S.H.**, Schairer\*, R.S., Farry-Thorn\*, M. E., Johnson\*, E.G., & Strnad\*, H.K. (2014). Previous sexual experience alters the display of paced mating behavior in female rats. *Horm Behav.* 65, 497-504. doi: 10.1016/j.yhbeh.2013.12.015
- Bell, M.R., **Meerts, S.H.** & Sisk, C.L. (2013) Adolescent brain maturation is necessary for adult-typical mesocorticolimbic responses to a rewarding social cue. *Dev Neurobio*, 73, 856-69. doi:10.1002/dneu.22106

Clark, A.S., Robinson, S., **Meerts, S.H.**, Quill, K.A. & Boisvert, E. (2011). Genitosensory nerve modulation of paced mating behavior: Evidence for pelvic, but not hypogastric, nerve influence. *Behav Neurosci*, 125, 668-673. doi:10.1037/a0024263

**Meerts, S.H.**, Guarraci, F.A., & Clark, A.S. (2012). An intact medial preoptic area is necessary for zaprinast to modulate paced mating behavior in female rats. *Physiol Behav*, 105, 264-268. doi:10.1016/j.physbeh.2011.08.026

Bell, M.R., **Meerts, S.H.** & Sisk, C.L. (2010). Male Syrian hamsters demonstrate a conditioned place preference for sexual behavior and female chemosensory stimuli. *Horm Behav*. 58, 410-414. doi:10.1016/j.yhbeh.2010.05.017

**Meerts, S.H.** Boisvert, E.M., Spjut, K.A., & Clark, A.S. (2010). Paced mating behavior persists in rats with vaginocervical Lidocaine. *Physiol Behav*, 99, 139-141. doi:10.1016/j.physbeh.2009.10.010

**Meerts, S.H.** & Clark, A.S. (2009). Lesions of the medial preoptic area interfere with the display of a conditioned place preference for artificial vaginocervical stimulation in rats. *Behav Neurosci*, 123, 752-757. doi:10.1037/a0016077

**Meerts, S.H.** & Clark, A.S. (2009). Conditioned place preference for mating is preserved in rats with pelvic nerve transection. *Behav Neurosci*, 123, 539-546. doi:10.1037/a0015267

Clark, A.S., **Meerts, S.H.** & Guarraci, F.A. (2009). Zaprinast, a phosphodiesterase type-5 inhibitor, alters paced mating behavior in female rats. *Physiol Behav*, 96, 289-293. doi:10.1016/j.physbeh.2008.10.013

**Meerts, S.H.** & Clark, A.S. (2009). Artificial vaginocervical stimulation induces a conditioned place preference in female rats. *Horm Behav*, 55, 128-132. doi:10.1016/j.yhbeh.2008.09.003

**Meerts, S.H.** & Clark, A.S. (2007). Female rats exhibit a conditioned place preference for nonpaced mating behavior. *Horm Behav*, 51, 89-94. doi:10.1016/j.yhbeh.2006.08.007

**Meerts, S.H.** & Clark, A.S. (2006). Stimulus animal characteristics do not modulate the expression of partner preference by female rats. *Physiol Behav*, 89, 623-626. doi:10.1016/j.physbeh.2006.08.031

Clark, A.S., Costine, B.A., Jones, B.L., Kelton-Rehkopf, M.C., **Meerts, S.H.**, Nutbrown-Greene, L.L., Penatti, C.A.A., Porter, D.M., Yang, P. & Henderson, L.P. (2006). Sex- and age-specific effects of anabolic androgenic steroids on reproductive behaviors and GABAergic transmission in neuroendocrine control regions. *Brain Res*, 1126, 122-138. doi:10.1016/j.brainres.2006.08.081

#### **Presentations at National Conferences** (\* indicates Carleton student)

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Corlett, A.G., Frankl, P.R., Akindona, F.A.B, VanDerwerker, M.E. **Meerts, S.H.** (2020) Paced mating behavior is influenced by duration of post-ejaculatory interval. [Abstract] Society for Neuroscience, Faculty for Undergraduate Research social, Virtual, October 2020.

**Meerts, S.H.**, Guarraci, F.A., Gonzalez, C.M.F, Ali, M., Lucero, D., Broyles, M. (2019). Effects of ketamine on sexual behavior and anxiety in female rats. [Abstract] Society for Neuroscience Annual Meeting, Chicago, IL, October 2019.

Hirshman\*, A., Denne\*, N., **Meerts, S.H.** (2019). Sexually experienced female rats orally self-administer less morphine than sexually naïve rats. [Abstract] Society for Neuroscience Annual Meeting, Chicago, IL, October 2019.

**Meerts, S.H.**, Bokor\*, S.L., Paglia\*, H., Kim\*, Y. (2019). Paced mating behavior in sexually experienced rats is influenced by latency to ejaculations and hormone regimen. [Abstract] Society for Behavioral Neuroendocrinology, Bloomington, IN, June 2019.

Piergies\*, A.M.H, Hicks\*, Jr., M.E., Schwartz\*, J.P., **Meerts, S.H.** (2018). Sexually experienced, but not naïve, female rats show a conditioned object preference (COP) for mating after a single training trial. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, November 2018.

Topf\*, M. & **Meerts, S.H.** Sexual experience-induced shifts in paced mating behavior are resistant to change during abstinence. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, November 2018.

Gonzalez, C.M., Lucero, D., Womble, P., **Meerts, S.H.**, Guarraci, & F.A. Practice makes perfect: Repeated sexual experience enhances sexual motivation as female rats approach middle-age. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, November 2018.

**Meerts, S.H.**, Arnold\*, M.R., & Bierlein-De La Rosa\*, G. Mating-induced c-fos in infralimbic prefrontal cortex is higher in sexually experienced than naïve female rats. [Abstract] Society for Neuroscience Annual Meeting, Washington, DC, November 2017.

**Meerts, S.H.**, Thallon\*, C., Pitkofsky\*, J., Arnold\*, M., Schwartz\*, J., & Hicks\*, M. Sexually experienced female rats show enhanced male preference relative to naïve rats if permitted to mate during sexual preference test. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Long Beach, CA, June 2017.

**Meerts, S.H.**, Arnold\*, M., Fehring\*, J., Azuma\*, L., Guterl\*, S., Sekhawat\*, R., Suresh\*, M., Velasco\*, S. (2016). Sexual experience induced changes in paced mating behavior are unrelated to testing interval and anxiety. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Montreal, Quebec, CA, August 2016.

Bachman\*, R., Park\*, J.H., Sekhawat\*, R., & **Meerts, S.H.** Partner preference is modulated by sexual experience in female rats. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Asilomar, CA, June 2015.

Van Der Wege, M. & **Meerts, S.H.** Embedding and supporting authentic research in the liberal arts student experience. [Abstract] National Institute for the Teaching of Psychology Annual Meeting, St. Pete Beach, FL, January 2015.

Dairaghi\*, L., Mason\*, N., & **Meerts, S.H.** Corticolimbic response to vaginocervical stimulation in adult female rats with or without ovaries during puberty. [Abstract] Faculty for Undergraduate Neuroscience Society for Neuroscience Annual Meeting, Washington, DC, November 2014.

McNamara\*, T.A., Klumpp\*, G.C., Guterl\*, S. & **Meerts, S.H.** Conditioned object preference as a task to measure reward in adult female rats. [Abstract] Society for Neuroscience Annual Meeting, Washington, DC, November 2014.

**Meerts, S.H.**, Strnad\*, H.K., McNamara\*, T.A., Puritz\*, A.C. Strain differences and similarities in motivation and reward for mating and amphetamine. [Abstract] Society for Neuroscience Annual Meeting, Washington, DC, November 2014.

**Meerts, S.H.**, Farry-Thorn\*, M.E., Kay\* W., Mason\*, N., Dairaghi\*, L., & Schairer\*, R.S. Absence of pubertal ovarian hormone exposure induces higher activity, but not receptivity, in hormone-primed adult female rats. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, November 2013.

Anderson\*, K.S., Farry-Thorn\*, M.E., Johnson\*, E.G., Taxier\*, L.R., Schairer\*, R.S., & **Meerts, S.H.** The effects of prepubertal ovariectomy on sexual reward and motivation. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Atlanta, GA, June 2013.

Schairer\*, R.S., Farry-Thorn\*, M.E., Johnson\*, E.G., Strnad\*, H.K., & **Meerts, S.H.** Effects of previous sexual experience are evident during 30-minute tests of paced mating behavior. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Atlanta, GA, June 2013.

**Meerts, S.H.**, Johnson\*, E.G., Schairer\*, R.S., Strnad\*, H.K., Taxier\*, L.R., Farry-Thorn\*, M.E. & Amofa\*, P.A. Clitoral-vaginal lidocaine alters paced mating behavior in female rats. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Madison, WI, June 2012.

Bell, M.R., DeLorme, K.C., **Meerts, S.H.** & Sisk, C.L. Testosterone-treated juvenile male Syrian hamsters show a conditioned place preference for vaginal secretions. [Abstract] Society for Neuroscience Annual Meeting, Washington DC, November 2011.

Bell, M.R., **Meerts, S.H.**, DeLorme, K.C. & Sisk, C.L. Behavioral and corticolimbic responses to a rewarding social cue mature over adolescence in male Syrian hamsters. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Queretaro, Mexico, June 2011.

**Meerts, S.H.**, Bell, M.R., Figueira, R.J., Melkonian, A.A., Sisk, C.L. Right under our nose: Prepubertal and adult male hamsters show different patterns of Fos expression in the accessory olfactory bulb following vaginal secretion exposure. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Toronto, Canada, July 2010.

Boisvert, E.M., **Meerts, S.H.**, & Clark, A.S. Estrogen modulation of conditioned place preference for artificial vaginocervical stimulation. [Abstract] Society for Neuroscience Annual Meeting, Washington DC, November 2008.

**Meerts, S.H.**, & Clark, A.S. Conditions that lead to a conditioned place preference for nonpaced mating behavior in female rats. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, November 2007.

**Meerts, S.H.**, & Clark, A.S. Induction of a conditioned place preference by nonpaced mating behavior in female rats. [Abstract] Society for Behavioral Neuroendocrinology Annual Meeting, Pittsburgh, PA, June 2006. Also presented at Neuroscience Day, Dartmouth College, Hanover, NH, February 2007

**Meerts, S.H.**, Christensen, A.E & Clark, A.S. Parameters of mating-induced conditioned place preference in female rats. [Abstract] Society for Neuroscience Annual Meeting, Washington DC, November 2005.

**Meerts, S.H.** & Clark, A.S. Is progesterone necessary for female rats to prefer a sexually active male? [Abstract] Horm Behav, 48, 115, Society for Behavioral Neuroendocrinology Annual Meeting, Austin, TX, June 2005.

Clark, A.S. & **Meerts, S.H.** Do si do: The role of stimulus animal pairing in the expression of partner preference. [Abstract] *Horm Behav*, 48, 94, Society for Behavioral Neuroendocrinology Annual Meeting, Austin, TX, June 2005.

**Meerts, S. H.**, Nutbrown, L.L., & Clark, A.S. Perivaginal lidocaine alters the display of paced mating behavior in female rats. [Abstract] Society for Neuroscience Annual Meeting, San Diego, CA, October 2004. Also presented at Neuroscience Day, Dartmouth College, Hanover, NH, February 2005.

### **Presentations at Regional Conferences** (\* indicates Carleton student)

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Corlett, A.G., Frankl, P.R., Akindona, F.A.B, VanDerwerker, M.E. **Meerts, S.H.** (2020) Paced mating behavior is influenced by duration of post-ejaculatory interval. [Abstract] Midbrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Augustana College, Virtual, October 2020.

Joshua, C., Kim, Y., Mackiel, A. & **Meerts, S.H.** Female rats show a conditioned object preference for a low dose of morphine after a single conditioning session. [Abstract] Midbrains: The Undergraduate Neuroscience Conference of the Upper Midwest, St. Thomas University, Saint Paul, MN, October 2018.

Piergies\*, A., Schwartz\*, J.P., **Meerts, S.H.** Sexually experienced, but not naïve, female rats show a conditioned object preference (COP) for mating after a single training trial. [Abstract] Midbrains: The Undergraduate Neuroscience Conference of the Upper Midwest, St. Thomas University, Saint Paul, MN, November 2017.

Sekhawat\*, R., Velasco\*, S., & **Meerts, S.H.** Time intervals between paced mating experiences have no effect on paced mating behavior. [Abstract] Minnesota Undergraduate Psychology Conference, Augsburg College, St. Paul, MN, April 2016.

Azuma\*, L., Fehring\*, J., Suresh\*, M., & **Meerts, S.H.** Hormone treatment reduces anxiety independent of sexual experience in female rats. [Abstract] Minnesota Undergraduate Psychology Conference, Augsburg College, St. Paul, MN, April 2016.

Bachman\*, R., Park\*, J.H., Sekhawat\*, R., & **Meerts, S.H.** Partner preference is modulated by sexual experience in female rats. [Abstract] Minnesota Undergraduate Psychology Conference, Macalester College, St. Paul, MN, April 2015. Also presented at Midbrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Bethel University, Saint Paul, MN, October 2015.

Strnad\*, H.K., McNamara\*, T.A., Puritz\*, A.C., & **Meerts, S.H.** Strain differences and similarities in motivation and reward for mating and amphetamine. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Bethel University, Saint Paul, MN, October 2014.

Dairaghi\*, L.K., Mason\*, N.R., **Meerts, S.H.** Corticolimbic response to vaginocervical stimulation in adult female rats with or without ovaries during puberty. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Bethel University, Saint Paul, MN, October 2014.

McNamara\*, T.A., Klumpp\*, G.C., Guterl\*, S., **Meerts, S.H.** Conditioned object preference as a task to measure reward in adult female rats. [Abstract] MidBrains: The Undergraduate

Neuroscience Conference of the Upper Midwest, Bethel University, Saint Paul, MN, October 2014.

Puritz, A, **Meerts, S.H.** Female Wistar and Long-Evans rats show conditioned place preference for amphetamine. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Bethel University, Saint Paul, MN, October 2014.

Strnad\*, H.K., Choi\*, Y., Dairaghi\*, L.K., Johnson\*, E.G., Mason\*, N., Taxier\*, L.R., Seyoum\*, D., Schairer\*, R.S. & **Meerts, S.H.** Nonpaced mating is rewarding to Long-Evans, but not Wistar, female rats. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2013. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2013.

Kay\*, W. Mason\*, N., Dairaghi\*, L. & **Meerts, S.H.** Effect of pubertal ovarian hormones on activity level after mating or no mating. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2013. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2013.

Anderson\*, K.S., Farry-Thorn\*, M.E., Johnson\*, E.G., Taxier\*, L.R., Schairer\*, R.S., & **Meerts, S.H.** The effects of pubertal ovariectomy on sexual motivation and reward in female rats. Minnesota Undergraduate Psychology Conference, Macalester College, St. Paul, MN, April 2013.

Anderson\*, K.S., Cocroft\*, C.S.G., Johnson\*, E.G., Strnad\*, H.K., Taxier\*, L.R. & **Meerts, S.H.** Male preference is enhanced in female rats receiving clitoral-vaginal lidocaine prior to paced mating behavior. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2012. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2012.

Farry-Thorn\*, M.E., Taxier\*, L.R., Johnson\*, E.G., Schairer\*, R.S., Strnad\*, H.K., Amofa\*, P.A. & **Meerts, S.H.** Clitoral-vaginal lidocaine alters paced mating behavior in female rats. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2012. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2012.

Johnson\*, E.G., Taxier\*, L.R., Strnad\*, H.K. & **Meerts, S.H.** Female rats without ovarian hormone exposure during puberty demonstrate higher sexual receptivity after subprime hormone administration. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2012. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2012.

Schairer\*, R.S., Amofa\*, P.A., Anderson\*, K.S., Cocroft\*, C.S.G., Farry-Thorn\*, M.E., Johnson\*, E.G., Strnad\*, H.K. & **Meerts, S.H.** Sexual experience must be paced to affect and alter paced mating behavior. [Abstract] MidBrains: The Undergraduate Neuroscience Conference of the Upper Midwest, Carleton College, Northfield, MN, October 2012. Also presented at Student Research Symposium and Celebration, Carleton College, Northfield, MN, October 2012.

Boisvert, E.M., Spjut, K.A., **Meerts, S.H.**, & Clark, A.S. An analysis of paced mating behavior in female rats using operant conditioning vs. a divided arena. Poster presented at Neuroscience Day, Dartmouth College, Hanover, NH, February 2008.

Boisvert, E.M., **Meerts, S.H.**, & Clark, A.S. Female rats exhibit a CPP for mating: role of the duration of the post-ejaculatory interval. Poster presented at the Annual Wetterhahn Science Poster Symposium, Dartmouth College, Hanover, NH, May 2007.

**Meerts, S.H.** & Clark, A.S. A comparison of mating paradigms: Operant conditioning and paced mating behavior in female rats. Annual Symposium of the Center for Neuroendocrine Studies, University of Massachusetts Amherst, Amherst, MA, October 2005.

## Talks

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2018 Northfield Science Café, Northfield MN  
2016 St. Thomas University, Biology Department  
2015 St. Olaf College, Biology Department  
2015 Oberlin College, Neuroscience Department  
2014 Society for Behavioral Neuroendocrinology meeting, professional development  
2013 Carleton College, Faculty Retreat  
2013 Carleton-St Olaf College iPad learning community  
2012 Wesleyan University, Biology Department  
2012 Carleton College, Summer Tea Talk  
2012 Carleton College, Advanced Placement Psychology Summer Institute  
2011 Carleton College, Biology Department  
2011 Michigan State University, SNAP  
2010 Berea College, Psychology Department  
2010 Carleton College, Psychology Department  
2008 Michigan State University, Neuroscience Program  
2006 Florida State University, Neuroscience Group  
2006 Dartmouth College, Psychological & Brain Sciences

## Pedagogical Training

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2018 *Effective & Efficient Feedback*, Carleton College Winter Workshop  
2017 Project Kaleidoscope, STEM Leadership Institute  
2015 *Course-Based Research Experiences: Development, Implementation, and Assessment*, Carleton College Winter Workshop  
2014 *Teaching as Learning*, Carleton College Winter Workshop  
2013 *Science and Math and Civic Engagement*, Carleton College Winter Workshop  
2013 *Teaching Circle*, Carleton College Learning Teaching Center  
2011 *Marshaling Resources and Scaffolding Skills for Comps Writers*, Carleton College Winter Workshop  
2011 *Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution*, Council on Undergraduate Research  
2010 *Teaching College Science*, 16-week course through College of Natural Sciences at Michigan State University  
2010 *Teaching with Teams*, workshop through Michigan State University  
2009 *Will This Be on the Test? Using Critical Thinking Concepts to Engage Students Deeply in Thinking of the Discipline*, workshop through Michigan State University  
2007 *Preparing Women for Academic Jobs*, workshop through Dartmouth College  
2005 *Exploring Teaching and Learning*, workshop presented by the Dartmouth Center for the Advancement of Learning  
2005 *Teaching, Learning, and the Brain*, a 10-week course through Psychological and Brain Sciences at Dartmouth College  
2003 *Ethical Conduct of Research*, Dartmouth Medical School



## Service and Community Outreach

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2020	STEM day organizer at Prairie Creek Community School
2019	STEM day presenter at Prairie Creek Community School
2018-current	IACUC committee member, Carleton College
2018	STEM day presenter at Prairie Creek Community School
2017	STEM day organizer at Prairie Creek Community School
2017-current	Co-Founder, Conversations on the Wonders of Science (C.O.W.S.) a Northfield Science Café.
2016	National Science Foundation, Integrative Organismal Systems (IOS) pre-proposal and full proposal review panel
2015	Panelist for <i>Course-Based Research Experiences: Development, Implementation, and Assessment</i> , Carleton Winter Workshop
2015-2017	Education and Curriculum Committee, Carleton College
2014-2016	Science Facility Planning Committee, Carleton College
2014	Panelist for new faculty orientation, Carleton College
2014	Book Group through Carleton's Learning and Teaching Center, <i>Lean-In</i> by Sheryl Sandberg
2013	Pre-Health Committee, Carleton College
2012-2014	Sexual Misconduct Committee, Carleton College
2011-current	Psychology Department representative to the Carleton College Science Board
2011-current	Neuroscience Core Committee member, Carleton College
2010-current	Brain Awareness, Lansing, MI, Faribault, MN, Northfield, MN, Castle Rock, MN
2010	Postdoctoral representative to Michigan State University's advisory committee for NSF grant "The Center for Academic and Future Faculty Excellence"
2005-2006	Graduate student representative to the Psychological and Brain Sciences Graduate Committee
2004	Brain Awareness Week Hartford Memorial Middle School, White River Junction, VT
2003	<b>Founder</b> , Graduate Research Roundtable in Psychological and Brain Sciences, Dartmouth College

**Ad hoc reviewer:** Hormones & Behavior; Physiology & Behavior; Journal of Sexual Medicine; Pharmacology, Biochemistry & Behavior; Psychoneuroendocrinology; Brain Research; Journal of Applied Toxicology; Neuroscience Letters; Research in Veterinary Science

## Support for Students

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2019	Travel support for Abby Hirshman and Nina Denne to attend annual Society for Neuroscience meeting Travel support for Sophie Bokor, Helen Paglia, and Yoojin Kim to attend annual Society for Behavioral Neuroendocrinology meeting
2018	Travel support for Antonia Piergies and Madeline Topf to attend annual Society for Neuroscience meeting
2017	Travel support for Maurice Hicks & Joshua Pitkofsky to attend annual Society for Behavioral Neuroendocrinology meeting
2016, 2017	Winter break, Madeline Topf
2016	Travel support for Moriah Arnold & Jennifer Fehring to attend annual Society for Behavioral Neuroendocrinology meeting
2015	Winter break, Jennifer Fehring
2015	Travel support for Scarlet Park, Rachel Bachman, Ria Sekhawat to attend annual Society for Behavioral Neuroendocrinology meeting

- 2014 Travel support for Leigh Dairaghi, Sophie Guterl, Noah Mason, Alyssa Puritz, Gracie Klumpp, Tanner McNamara to attend annual Society for Neuroscience meeting
- 2014 Summer, Alanna Bares, Leigh Dairaghi, Sophie Guterl, Noah Mason, Alyssa Puritz
- 2013 Winter break, Alyssa Puritz
- 2013 Summer, Helen Strnad
- 2013 Travel support for Molly Farry-Thorn, Elliott Johnson, Lisa Taxier, Kelly Anderson & Rosemary Schairer to attend annual Society for Behavioral Neuroendocrinology meeting
- 2012 Summer, Lisa Taxier, Kelly Anderson, Helen Strnad, Claire Cocroft, Elliott Johnson
- 2012 Travel support for Molly Farry-Thorn & Elliott Johnson to attend annual Society for Behavioral Neuroendocrinology meeting
- 2011 Winter Break, Helen Strnad, Julia Baker

### **Professional Membership**

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Society for Behavioral Neuroendocrinology, Co-chair Professional Development Committee, 2014-2017  
Society for Neuroscience  
Faculty for Undergraduate Neuroscience  
Society for the Teaching of Psychology  
Sigma Xi – Carleton College Chapter President, 2014-present