

## **Lique Martina Coolen**

### *Curriculum Vitae*

#### **Current Position and Address**

Professor  
Department of Physiology & Biophysics  
Associate Dean, School of Graduate Studies in the Health Sciences  
University of Mississippi Medical Center  
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Jackson, MS 39216

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#### **Education**

- Ph.D. in Neurosciences, December 1995, University of Nijmegen, The Netherlands
- M.S. in Psychology, August 1990, University of Utrecht, The Netherlands.
- B.S. in Psychology, August 1985, University of Utrecht, The Netherlands.

#### **Academic Positions**

- July 2012-present: Professor, Department of Physiology & Biophysics, University of Mississippi Medical Center, Jackson, MS
- July 2012-present: Associate Dean, School of Graduate Studies in the Health Sciences, University of Mississippi Medical Center, Jackson, MS
- December 2010-present: Adjunct Professor, Department of Anatomy & Cell Biology, University of Western Ontario, London, Canada
- December 2010-June 2012: Professor, Department of Molecular & Integrative Physiology, University of Michigan Medical School, Ann Arbor, MI
- December 2010-June 2012: Professor, Department of Psychology, University of Michigan College of Literature, Science, and the Arts, Ann Arbor, MI
- December 2010-June 2012: Professor (cross-appointed), Department of Obstetrics & Gynecology, and Research Scientist, Reproductive Science Program, University of Michigan Medical School, Ann Arbor, MI

- December 2010-June 2012: Research Scientist, Reproductive Sciences Program, University of Michigan Medical School, Ann Arbor, MI
- July 2008-December 2010: Professor, Department of Physiology & Pharmacology and Department of Anatomy & Cell Biology, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada
- Feb 2005-December 2010: Canada Research Chair (Tier 2) in Neurobiology of Motivation and Reward, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada
- Dec 2005-June 2008: Associate Professor, Department of Physiology & Pharmacology and Department of Anatomy & Cell Biology, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada
- Sept 2003-Nov 2005: Associate Professor (tenured), Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati College of Medicine.
- Jan 2000-Sept 2003: Assistant Professor (tenure-track), Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati College of Medicine.
- Sept 1998-Dec 1999: Adjunct Assistant Professor, Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati College of Medicine.
- 1996-1998: Postdoctoral fellow, Department of Anatomy and Neurobiology, University of Maryland, Baltimore School of Medicine, Advisor: Dr. M.T. Shipley.
- 1995-1996: Postdoctoral fellow, Department of Obstetrics and Gynecology, Yale University School of Medicine, Advisor: Dr. R.I. Wood.
- 1991-1992: Research Assistant, Department of Psychopharmacology, University of Utrecht, The Netherlands.

### **Honors and Awards**

1998: Young Investigator Award; Workshop on Steroid Hormones and Brain Function, Breckenridge, CO.

1999: Frank A. Beach Award, awarded by the Society for Behavioral Neuroendocrinology.

2003: Charles Judson Herrick Award, awarded by the American Association of Anatomists.

2007: Canada Research Chair of Neurobiology of Motivation and Reward (Tier 2)

2010: Neuroscience Scholar, awarded by the Neuroscience Scholars Committee, University of Michigan

**Research**

**Grant Support**

Active:

NIH P01 HD44232

Prenatal programming of reproductive health and disease-Project III

Project PI: Lique Coolen, 30% effort (P01 PI: Vasantha Padmanabhan)

Grant Period: 09/01/09-08/30/15

Previous:

CIHR Operating Grant RN 014705

Effects of sexual experience on drug responsiveness

PI: Lique M. Coolen

Grant period: 6/2007-5/2013

NSERC Individual Discovery Grant 341710

Neural pathways mediating sexual reward

PI: Lique M. Coolen

Grant period: 4/2007-3/2011

Ontario Research Fund (group grant)

Development of Ontario Ginseng

PI: Ed Lui; co-PI: Lique Coolen (Effects of ginseng on sexual function)

Grant period: 5/2009-3/2013

NSERC Individual Discovery Grant 341710

Neural pathways mediating sexual reward

PI: Lique M. Coolen

Grant period: 4/2007-3/2012

Canadian Foundation for Innovation 11920

A Behavioral Gene Discovery Laboratory for Integrative Neuroscience

Project Leader: Michael N. Lehman; co-PI: Lique Coolen and Steve Laviolette

Grant Period: 04/01/06-03/31/07

Canada Research Chair

Neurobiology of Motivation and Reward

PI: Lique M. Coolen

Grant Period: 02/01/06-12/31/10

NIH R01 NS046609

Neural regulation of ejaculation

PI: Lique M. Coolen

Grant period: 2/01/2004-1/31/2009

NIH R01 DA07427

Determinants and consequences of MDMA neurotoxicity

PI: Gary Gudelsky; co-PI: Lique Coolen

Grant period: 8/15/2006-4/30/2008

NIH R01 DA016778-01

Role of D3 dopamine receptor in behavioral sensitization

PI: Neil Richtand; co-PI: Lique Coolen

Grant period: 4/01/2004-3/31/2008

NIH R01 DA14591

Role of endogenous opioids in male reproductive behavior

PI: Lique M. Coolen

Grant period: 3/01/2002-2/28/2007 (no cost extension to 2/28/2008)

NIH R01 MH60781

Neural mechanisms mediating male sexual behavior.

PI: Lique M. Coolen

Grant period: 3/01/2000-2/28/2006

NSF IBN 032366

Sensory pathways involved in female reproduction

PI: Lique M. Coolen

Grant period: 9/01/03-8/31/05

Pfizer (Sandwich, UK)

Role of serotonin in control of ejaculation

PI: Lique M. Coolen

Grant period: 11/01/03-10/31/05

NSF IBN-9906430

Sensory pathways mediating motivated behavior

PI: Lique M. Coolen, 20% effort

Grant period: 8/01/99-7/31/2001

### **Invitations to National and International Meetings**

1. 1993: Invited Oral Contribution, International Conference on Hormones, Brain and Behaviour, Tours, France
2. 1994: Invited Oral Contribution, Annual Conference on Reproductive behavior, Bethlehem, PA
3. 1996: Invited speaker, Conference on Reproductive Behavior, Montreal, Canada.
4. 1996: Invited speaker, International Conference on Hormones, Brain and behavior, Torino, Italy.

5. 1997: Co-Chair Session “Social behavior I: Aggression” at Inaugural meeting for Society for Behavioral Neuroendocrinology and Conference on Reproductive Behavior, Baltimore, MD.
6. 1998: Invited speaker, Workshop on Steroid Hormones and Brain Function, Breckenridge, CO.
7. 1998: Invited speaker, Internet World Congress on Biomedical Sciences, “Neural substrates of sexual motivation and performance as revealed by neural immediate early gene expression”, <http://www.mcmaster.ca/inabis98/baum/coolen0521/index.html>.
8. 1999: Chair Symposium and Invited Speaker, “About sex: a matter of neurons, hormones, transmitters, and behaviour.” Dutch Endo-Neuro Meeting, Amsterdam, The Netherlands.
9. 1999: Chair Symposium and Invited Speaker, “Neural substrates of behavior: the use of molecular neuroanatomy to map functional neurocircuits”, Annual Meeting of the Society for Behavioral Neuroendocrinology, Charlottesville.
10. 2002: Chair Symposium and Invited Speaker, “Neuroendocrinology of motivation and reward”, Annual Meeting of the Society for Behavioral Neuroendocrinology, Amherst.
11. 2003: Invited speaker, Steroid Hormones in the Brain Meeting, Breckenridge, CO
12. 2003: Invited Speaker, Annual Meeting American Association of Anatomists, San Diego, CA
13. 2003: Invited Speaker, Annual Meeting Society of Neurological Surgeons, Cincinnati, OH
14. 2003: Invited Speaker, Annual Meeting of the Society for Study of Reproduction, Cincinnati, OH
15. 2005: Invited Speaker, Anatomy of the Soul, The Netherlands
16. 2005: Invited Speaker, NYU Skirball Symposium, NYC, NY
17. 2006: Invited Speaker, Fusion: From conjugation to sex, International Congress Groninger Levenswetenschappenvereniging IDUN, The Netherlands
18. 2007: Invited Speaker, International Conference on Neurons and Brain Disease, Toronto, Canada
19. 2007: Invited Speaker, ANDP symposium “How to balance life and career”, Annual meeting for Society for Neuroscience, San Diego, CA, USA.
20. 2008: Invited Speaker, International Symposium in honor of Dr. Jan Veening, University Nijmegen, The Netherlands
21. 2008: Invited Speaker, Annual Meeting of Southern Ontario Neuroscience Association, London, ON, Canada
22. 2008: Invited Oral Contribution, First world conference Kisspeptin Signalling in the Brain, Cordoba, Spain
23. 2009: Chair Symposium and Invited Speaker: “Interactions between natural and drug rewards” Annual Meeting of the Society for Behavioral Neuroendocrinology, Fort Lansing, MI, USA.
24. 2010: Invited Speaker, PDC-organized workshop at the SfN meeting entitled "Essential Skills for a Successful Mentoring Relationship, San Diego, CA, USA
25. 2010: Invited Speaker, Second Annual Canadian Institute of Chinese Medicinal Research and Ontario Ginseng Innovation and Research Consortium International Conference, Ottawa, Canada
26. 2012: Invited Speaker, Winter Conference for Brain Research, Snowbird, UT, USA
27. 2012: Invited Speaker, World Meeting on Sexual Medicine, Chicago, IL, USA

28. 2013: Invited Speaker and Chair Plenary Session, Spring Brain Conference, Sedona, AZ, USA

**Invited Seminars**

1. 1993: University of Utrecht, Department of Physiological Psychology, The Netherlands.
2. 1993: University of Nijmegen, Department of Physiological Psychology, The Netherlands.
3. 1993: University of Groningen, Department of Animal Physiology, The Netherlands.
4. 1994: University of Nijmegen, Society Pathophysiology of the Neural System, The Netherlands.
5. 1994: University of Massachusetts Medical Center, Department of Psychiatry, Behavioral Neuroscience Program, Worcester, MA.
6. 1994: University of Massachusetts, Department of Psychology, Amherst, MA.
7. 1994: Boston University, Department of Biology, Boston, MA.
8. 1994: University of Utrecht, Department of Physiological Psychology, The Netherlands.
9. 1994: University of Wageningen, Department of Animal Physiology, The Netherlands.
10. 1996: University of Connecticut, Department of Psychology, Storrs, CT.
11. 1996: University of Massachusetts, Department of Psychology, Amherst, MA.
12. 1996: Rockefeller University, Laboratory of Neuroendocrinology, New York.
13. 1996: University Maryland Med. School, Department of Anatomy, Baltimore, MD.
14. 1997: Northeastern Ohio University School of Medicine, Department of Neurobiology, Rootstown, OH.
15. 1998: Univ. Illinois at Chicago, Department of Psychology, Chicago, IL.
16. 1998: Chicago Medical School, Department of Neuroscience, Chicago, IL.
17. 1999: Symposium "Frontiers in Neuroendocrinology", Chicago Medical School, Chicago, IL.
18. 2000: Emory University, Neuroscience Graduate Program, Atlanta.
19. 2002: University of Cincinnati, Dept Cell Biol, Neurobiol & Anat, Cincinnati, OH.
20. 2002: Skidmore College, Neuroscience Program, Saratoga Springs, NY.
21. 2002: University Utrecht, Dept Psychopharmacology, Utrecht, The Netherlands.
22. 2002: Free University Amsterdam, Dept Pharmacology, Amsterdam, The Netherlands.
23. 2002: University of Cincinnati, Dept Biology, Cincinnati, OH
24. 2002: Sandwich, Pfizer, Sexual Health Research Group, United Kingdom
25. 2003: University of South California, Neuroscience Seminar Series, Los Angeles, CA
26. 2003: Rutgers University, Neuroscience Seminar Series, Newark, NJ
27. 2003: University of Cincinnati, Dept Psychiatry, Cincinnati, OH
28. 2003: University of Texas, Medical Branch, Dept. Anatomy, Galveston, TX
29. 2003: University of Groningen, The Netherlands
30. 2003: Saint Louis University, Dept Anatomy and Neurobiology, St. Louis, MO
31. 2004: University of Cincinnati, Dept Molecular Cellular Physiology, Cincinnati, OH
32. 2004: Cincinnati Children's Hospital Research Foundation, Division of Developmental Biology, Cincinnati, OH
33. 2004: University of Chicago, Dept Biology, Chicago, IL
34. 2004: Penn State University Medical School, Hershey, PA
35. 2004: Wright State University, Dayton, OH
36. 2004: Rudolph Magnus Institute, Utrecht, The Netherlands

37. 2004: Free University Amsterdam, Dept Pharmacology, Amsterdam, The Netherlands.
38. 2005: Miami University, Dept. Zoology, Oxford, OH
39. 2005: Gallo Center, UCSF, San Fransisco, CA
40. 2005: University of Western Ontario, Dept. Anatomy & Cell Biology, London, Canada
41. 2005: University of Western Ontario, Dept. Physiology&Pharmacology, London, Canada
42. 2005: University of Michigan, Psychobiology Department, Ann Arbor, MI
43. 2005: University of Louisville, Anatomy Department, Louisville, KY
44. 2006: National Institute for Drug Abuse, Intramural Research program, Baltimore, MD
45. 2006: Kennedy Center, Vanderbilt University, Nashville, TN
46. 2006: University of Western Ontario, Research Day, Dept. Physiology&Pharmacology, London, Canada
47. 2007: University of Western Ontario, Research Day, Dept. Anatomy&Cell Biology, London, Canada
48. 2007: University of Western Ontario, Dept. Physiology&Pharmacology, London, Canada
49. 2007: Johns Hopkins University, Dept. Neuroscience, Baltimore, MD
50. 2007: Windsor University, Program for Behavioral and Cognitive Neuroscience, Windsor, Canada
51. 2008: Canadian Association for Laboratory Animal Science, London, ON, CA
52. 2008: Robarts Research Institute, Spinal Cord Injury Group, London, ON, CA
53. 2008: University of Toronto at Mississauga, Dept. Psychology, Mississauga, CA
54. 2008: Concordia University, Behavioral Neuroscience, Montreal, CA
55. 2009: Windsor University, Department of Biology, Windsor, CA
56. 2010: Carleton University, Department of Neurosciences, Ottawa, CA
57. 2010: University of Toronto, Brain and Behavior Seminar Series. Toronto, CA
58. 2011: Indiana University-Purdue University Indianapolis, Department of Anatomy, Indianapolis, IN
59. 2012: Bowling Green State University, Department of Biology, Bowling Green, OH
60. 2012: University of Michigan Substance Abuse Research Center, Ann Arbor, MI
61. 2012: Medical College of Wisconsin, Neuroscience Research Center, Milwaukee, WI
62. 2012: University Mississippi Medical Center, Grand Rounds Dept. Neurosurgery, Jackson, MS
63. 2012: University Mississippi Medical Center, Dept. Neurobiology & Anatomical Sciences, Jackson, MS
64. 2013: Louisiana State University, Shreveport, Dept. Pharmacology, Toxicology & Neurobiology, Shreveport, LA

## BIBLIOGRAPHY

### Publications

Graduate student are underlined; postdoctoral fellows are *italic*

1. **Coolen L.M.**, Peters H.J.P.W. and Veening J.G. (1996) Fos-immunoreactivity in the rat brain following consummatory elements of sexual behavior: A sex comparison. *Brain Research*, 738: 67-82.

2. **Coolen L.M.**, Peters H.J.P.W. and Veening J.G. (1997) Distribution of Fos-immunoreactivity following mating versus anogenital investigation in the male rat. *Neuroscience*, 77(4): 1151-1161.
3. **Coolen L.M.**, Olivier B., Peters H.J.P.W. and Veening J.G. (1997) Demonstration of ejaculation-induced neural activity in the male rat brain using 5HT<sub>1A</sub> agonist 8-OH-DPAT. *Physiology & Behavior*, 62(4): 881-891.
4. Wood R.I. and **Coolen L.M.** (1997) Integration of chemosensory and hormonal cues is essential for male sexual behavior in the syrian hamster: Role of the medial amygdaloid nucleus. *Neuroscience*, 78(4): 1027-1035.
5. Veening J.G. and **Coolen L.M.** (1998) Neural activation following sexual behavior in the male rat brain. *Behavioral Brain Research*, 92: 181-193.
6. Veening J.G., **Coolen L.M.**, Spooren W.J., Joosten H., Van Oorschot R, Mos J., Ronken E. and Olivier B. (1998) Patterns of c-fos expression induced by fluvoxamine are different after acute versus chronic oral administration. *European J. Neuropharmacology*, 8: 2133-226.
7. **Coolen L.M.**, Peters H.J.P.W. and Veening J.G. (1998) Anatomical interrelationships of neurons activated following male sexual behavior: A combined Fos and tract tracing study. *J. Comparative Neurology*, 397(3):421-435.
8. **Coolen L.M.** and Wood R.I. (1998) Bidirectional connections of the medial amygdaloid nucleus in the Syrian hamster brain: Simultaneous anterograde and retrograde tract tracing. *J. Comparative Neurology*, 399(2): 189-209.
9. **Coolen L.M.** and Wood R.I. (1999) Testosterone stimulation of medial preoptic area and medial amygdala in the control of male hamster sexual behavior: Redundancy without amplification. *Behavioral Brain Research*, 98: 143-153.
10. **Coolen L.M.**, Jansen H.T., Goodman R.L., Wood R.I. and Lehman M.N. (1999) A new method for simultaneous demonstration of anterograde and retrograde connections in the brain: Co-injections of BDA and the beta subunit of cholera toxin. *J. Neuroscience Methods*, 91: 1-8
11. Viguie C., Jansen H.T., Glass J.D., Watanabe M., Billings H.J., **Coolen L.M.**, Lehman M.N., and Karcsh F.J. (2001) Potential for polysialylated form of neural cell adhesion molecule-mediated neuroplasticity within the gonadotropin-releasing hormone neurosecretory system of the ewe. *Endocrinology* 142(3):1317-24.
12. Le W.-W, Wise P.M., Murphy A.Z., **Coolen, L.M.**, and Hoffman G.E. (2001) Parallel declines in Fos activation of the medial anteroventral periventricular nucleus and LHRH neurons in middle-aged rats. *Endocrinol.* 142(11): 4976



13. Waldinger, M.D. van de Plas A., Pattij, T. van Oorschot R., **Coolen L.M.**, Veening J.G., and Olivier B. (2002) The selective serotonin re-uptake inhibitors fluvoxamine and paroxetine differ in sexual inhibitory effects after chronic treatment. *Psychopharmacology* 160:283–289
14. Benoit S.C., Air, E.L. **Coolen L.M.**, Strauss R., Jackman A., Seeley R.J., and Woods S.C. (2002) The catabolic action of insulin in the brain is mediated by melanocortins. *J. Neuroscience* 22: 9048-9052
15. *Truitt W.A.* and **Coolen L.M.** (2002) Identification of a potential ejaculation generator in the spinal cord. *Science* 297: 1566-1569
16. Foradori C.D., **Coolen L.M.**, Fitzgerald M.E., Skinner D.C., Goodman R.L., and Lehman M.N. (2002) Colocalization of progesterone receptors in parvocellular dynorphin neurons of the ovine preoptic area and hypothalamus. *Endocrinology*, 143(11): 4366-4374
17. *Truitt W.A.*, Shipley M.T., Veening J.G., and **Coolen L.M.** (2003) Activation of a subset of lumbar spinothalamic neurons following copulatory behavior in male but not female rats. *J. Neuroscience* 23(1): 325-331
18. **Coolen L.M.**, Veening J.G., Peters D., and Shipley M.T. (2003) Parvocellular subparafascicular thalamic nucleus in the rat: Anatomical and functional compartmentalization. *J Comparative Neurology* 463: 117-131
19. **Coolen L.M.**, Veening J.G., Wells A.B., and Shipley M.T. (2003) Afferent connections of the parvocellular subparafascicular thalamic nucleus in the rat: evidence for functional subdivisions. *J Comparative Neurology* 463: 132-156
20. Richtand N.M., Welge J.A., Levant B., Logue A.D., Hayes S., Pritchard L.M., Geraciotti T.M., **Coolen L.M.**, and Berger S.P. (2003) Altered Behavioral Response to Dopamine D<sub>3</sub> Receptor Agonists 7-OH-DPAT and PD 128907 Following Repetitive Amphetamine Administration. *Neuropsychopharmacology* 28: 1422-1432
21. **Coolen L.M.**, Fitzgerald, M.E., Yu L., and Lehman M.N. (2003) Activation of mu opioid receptors in the medial preoptic area following copulation in male rats. *Neuroscience*, 124(1): 11-21
22. Balfour M.E., Yu L., and **Coolen L.M.** (2003) Sexual behavior and sex-associated environmental cues activate the mesolimbic system in male rats. *Neuropsychopharmacology*, 29: 718-730
23. Sliwowska J.H., Billings H.J., Goodman R.L., **Coolen L.M.**, and Lehman M.N. (2004) The Premammillary Hypothalamic Area of the Ewe: Anatomical Characterization of a Melatonin Target Area Mediating Seasonal Reproduction *Biology of Reproduction*, 70: 1768-1775
24. Goodman R.L., **Coolen L.M.**, Anderson G.M., Hardy S.L., Valent M., Connors J.M., Fitzgerald M.E., and Lehman M.N. (2004) Evidence that dynorphin plays a major role in

- mediating progesterone negative feedback on gonadotropin-releasing hormone neurons in sheep. *Endocrinology*, 145: 2959-2967
25. Drazen D.L., **Coolen L.M.**, Strader A.D., Wortman M.D., Woods S.C., and Seeley R.J. (2004) Differential effects of adrenalectomy on melanin-concentrating hormone and orexinA. *Endocrinology*, 145: 3404-3412
26. Zhang J, Moseley A, Jegga AG, Gupta A, Witte DP, Sartor M, Medvedovic M, Williams SS, Ley-Ebert C, **Coolen LM**, Egnaczyk G, Genter MB, Lehman M, Lingrel J, Maggio J, Parysek L, Walsh R, Xu M, Aronow BJ (2004) Neural system-enriched gene expression: relationship to biological pathways and neurological diseases. *Physiol Genomics* 18(2):167-83
27. **Coolen LM**, Allard J, Truitt WA, McKenna KE. (2004) Central regulation of ejaculation. *Physiol Behav.* 2004 Nov 15;83(2):203-15
28. Allard J., McKenna K.E., Truitt W.A., and **Coolen L.M.** (2005) Spinal cord regulation of ejaculation. *World J. Urology* 23(2): 119-126.
29. **Coolen L.M.** (2005) Neural control of ejaculation. *J. Comp. Neurol.* 493(1): 39-45.
30. Veening J.G., **Coolen L.M.**, de Jong T.R., Joosten H.W., de Boer S.F., Koolhaas J.M., and Olivier B. (2005) Do similar neural systems subserve aggressive and sexual behavior in male rats? Insights from c-Fos and pharmacological studies. *Eur. J. Pharmacol.* 526(1-3): 226-239.
31. Richtand N.M., Taylor B., Logue A., Ahlbrand R., Welge J.A., Burr J., Hayes S., **Coolen L.M.**, Ph.D., Pritchard L., Ostrander M.M., Herman J.P. (2006) Risperidone Pretreatment Prevents Behavioral Abnormality Following Neonatal Hippocampal Lesion. *Neuropsychopharm.* 31(1): 77-89.
32. Balfour M.E., Brown J.L., Yu L., and **Coolen L.M.** (2006) Potential contributions of efferents from medial prefrontal cortex to neural activation following sexual behavior in the male rat. *Neurosci.* 137(4): 1259-76.
33. M.M.W. Straiko, G.A. Gudelsky, **L.M. Coolen**, R. Harrison, F.P. Zemlan (2006) Treatment with trimethyltin promotes the formation of cleaved tau in the rat brain. *J. Neurosci. Res.*, 84(5): 1116-23.
34. Jing Wang, **Lique M. Coolen**, Jennifer L. Brown, and Ted B. Usdin (2006) Neurons Containing Tuberoinfundibular Peptide Of 39 Residues Are Activated Following Male Sexual Behavior. *Neuropeptides*, 40(6): 403-408.
35. Adams, V.L., Goodman, R.L., Salm, A.K., **Coolen, L.M.**, Karsch, F.J., and Lehman M.N. (2006) Morphological Plasticity in the Neural Circuitry Responsible for Seasonal Breeding in the Ewe. *Endocrinol*, 147(10): 4843-51.

36. M.M.W. Straiko, **L.M. Coolen**, F.P. Zemplan, G.A. Gudelsky (2007) The effect of amphetamine-analogs on cleaved MAP-tau formation in the rat brain. *Neurosci.*, 144(1): 223-31.
37. M.M.W. Straiko, G.A. Gudelsky, **L.M. Coolen** (2007) Treatment with a serotonin-depleting regimen of MDMA prevents conditioned place preference to sex in male rats. *Behav. Neurosci.*, 121(3):586-93.
38. Juan M. Dominguez, Margaret E. Balfour, Han S. Lee, Jennifer L. Brown, Brooke A. Davis, and **Lique M. Coolen**. (2007) Mating activates NMDA receptors in the medial preoptic area of male rats. *Behav Neurosci.* 121(5):1023-31.
39. Brooke A. Davis, Maureen E. Fitzgerald, Jennifer A. Brown, Katia A. Amstalden, and **Lique M. Coolen**. (2007) Sexual behavior and general arousal activate beta-endorphin producing neurons in the mediobasal hypothalamus of male rats. *Behav Neurosci.* 121(5):1012-22.
40. Chad D. Foradori, Robert J. Handa, Marcel Amstalden, **Lique M. Coolen**, Sushma R. Singh, Christine J. McManus, Robert L. Goodman, and Michael N. Lehman. (2007) Orphanin FQ: Evidence for a central role in the control of the reproductive neuroendocrine system. *Endocrinology*, 148(10):4993-5001.
41. Jocelien D.A. Olivier, Trynke R de Jong, P. Jos Dederen, Ruud van Oorschot, Dick Heeren, Tommy Pattij, Marcel D Waldinger, **Lique M Coolen**, Lex R Cools, B. Olivier, Jan G. Veening. (2007) Effects of acute and chronic apomorphine on sex behavior and copulation-induced neural activation in the male rat. *Eur J Pharmacol.* 576(1-3):61-76.
42. Goodman RL, Lehman MN, Smith JT, **Coolen LM**, de Oliveira CV, Jafarzadehshirazi MR, Pereira A, Iqbal J, Caraty A, Ciofi P, Clarke IJ. (2007) Kisspeptin neurons in the arcuate nucleus of the ewe express both dynorphin A and neurokinin B. *Endocrinology.* 148(12): 5752-60.
43. Bogusz AL, Hardy SL, Lehman MN, Connors JM, Hileman SM, Sliwowska JH, Billings HJ, McManus CJ, Valent M, Singh SR, Nestor CC, **Coolen LM**, Goodman RL (2008) Evidence that  $\gamma$ -amino butyric acid is part of the neural circuit mediating estradiol negative feedback in anestrous ewes. *Endocrinology.* Jun;149(6):2762-72. Epub 2008 Mar 6.
44. Jeremy T. Smith\*, **Lique M. Coolen\***, Lance J. Kriegsfeld, Ika P. Sari, Mohammad R. Jaafarzadehshirazi, Matthew Maltby, Katherine Bateman, Robert L. Goodman, Alan J. Tilbrook, Takayoshi Ubuka, George E. Bentley, Iain J. Clarke, Michael N. Lehman (2008) Variation in kisspeptin and RFRP expression and terminal connections to GnRH neurons in the brain: a novel medium for seasonal breeding in the sheep. *Endocrinology*, Nov;149(11):5770-82  
(\*J.T. Smith and L.M. Coolen contributed equally to this work)
45. Tenk C.M., Wilson H. Pitchers K.K., Zhang Q, and **Coolen L.M.** (2009) Sexual reward in male rats: effects of sexual experience on conditioned place preference associated with ejaculation and intromissions. *Horm Behav*, Jan;55(1):93-7. Epub 2008 Sep 12

46. Young B. **Coolen L.**, and McKenna K. (2009) Neural regulation of ejaculation. *J. Sex Med. Suppl 3*: 229-33
47. Dahl S.K., *Amstalden M.*, **Coolen L.M.**, and Lehman M.N. (2009) Dynorphin immunoreactive fibers contact GnRH neurons in the human hypothalamus. *Reproductive Sciences*, 16(8): 781-7
48. Yu-Qiu Zhang, Ning Guo, Guangdun Peng, Han Mei, Jeremy Raincrow, Chi-hua Chu-Groof, **Lique M. Coolen**, Robert J. Wenthold, Zhi-Qi Zhao, Naihe Jing, Lei Yu (2009) Role of SIP30 in the Development and Maintenance of Peripheral Nerve Injury-induced Neuropathic Pain. *Pain* 146(1-2):130-40.
49. Sushma R. Singh, Stanley M. Hileman, John M. Connors, Christina J. McManus, **Lique M. Coolen**, Michael N. Lehman, and Robert L. Goodman (2009) Estradiol negative feedback regulation by glutamatergic afferents to A15 dopaminergic neurons: variation with season. *Endocrinol.* 150(10): 4663-71
50. *Ian C. Webb*, *Ricardo M. Baltazar*, Michael N. Lehman and **Lique M. Coolen** (2009) Bidirectional interactions between the circadian and reward systems: Is restricted food access a unique zeitgeber? *Eur. J. Neurosci.* 30(9):1739-48. (*Invited Review*)
51. *Ian C. Webb*, *Ricardo M. Baltazar*, Xu Wang, *Kyle K. Pitchers*, **Lique M. Coolen** and Michael N. Lehman (2009) Diurnal Variations in Natural and Drug Reward, Mesolimbic Tyrosine Hydroxylase and Clock Gene Expression in the Male Rat. *J. Biol. Rhythms.* 24(6):465-76
52. *Marcel Amstalden*, **Lique M. Coolen**, Ann M. Hemmerle, *Heather J. Billings*, Christie J. McManus, Miro Valent, Robert L. Goodman, Michael N. Lehman (2009) Neurokinin 3 receptor immunoreactivity in the septal region, preoptic area and hypothalamus of the sheep: colocalization in neurokinin B cells of the arcuate nucleus but not in gonadotropin-releasing hormone neurons. *J. Neuroendocrinol.* 22(1):1-12
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82. Allard J. and Coolen L.M. (2005) Removal of serotonergic input to the spinal ejaculation generator: Effect on sexual behavior and expulsion reflex. *Soc. Neurosci. Abstract* 627.14
83. Goodman R.L, McManus C.J., Lehman M.N., Coolen L.M., and Singh S.R. (2005) A possible role for glutamatergic neurons in mediating estradiol negative feedback in anestrous ewes. *Soc. Neurosci. Abstract* 759.3
84. Amstalden M., Billings H.J., Hileman S.M., McManus C.J., Valent M., Coolen L.M., Goodman R.L. and Lehman M.N. (2005) Location of dynorphin neurons that project to the external zone of the median eminence in the sheep. *Soc. Neurosci. Abstract* 759.14
85. Davis B.A., Amstalden K.A., deOliveira C.V.R., and Coolen L.M. (2006) Activation of mu opioid receptors in the medial subparafascicular thalamic nucleus mediates sexual inhibition and reward. *Horm. Behav. Soc. Behav Neuroendocrinol.*
86. Davis BA and Coolen LM (2006) beta-Endorphin is not essential for male sexual behavior, detection of female odors, or mating-induced neural activation in mice. Annual Meeting of Society for Neuroscience, abstract# 268.14

87. Billings HJ, Coolen LM, Goodman RL, Lee TM, Mahoney MM, Tetel MJ, and Lehman MN (2006) GnRH neurons of diurnal but not nocturnal species contain steroid receptor coactivator-1. Annual Meeting of Society for Neuroscience, abstract# 257.3.
88. Zhang Q, Wilson HE and Coolen LM (2006) Activation of the limbic system by remote contextual memory for sexual reward. Annual Meeting of Society for Neuroscience, abstract# 811.17.
89. Coolen LM, Wilson HE, Amstalden K, Haldeman E, Pimenta AF, and Levitt P (2006) Expression of limbic system-associated membrane protein is essential for male sexual behavior. Annual Meeting of Society for Neuroscience, abstract# 268.21.
90. Karla S. Frohmader, Joost Wiskerke, Cleusa V.R. de Oliveira, and Lique M. Coolen (2007) Inhibiting ERK phosphorylation in the mPOA facilitates male sexual behavior. UWO Margaret Moffatt Research Day.
91. Joost Wiskerke, Danielle Counotte, Cleusa deOliveira, and Lique M. Coolen (2007) Homer-1 in the nucleus accumbens is involved in sexual behavior in male rats. UWO Margaret Moffatt Research Day.
92. Karla S. Frohmader, Joost Wiskerke, and Lique M. Coolen (2007) Sexual behavior and methamphetamine activate overlapping populations of nucleus accumbens neurons. Annual Meeting Soc. Behav. Neuroendocrinol.
93. Guanliang Cheng, Lique M. Coolen, Meghan E. Reale, Robert L. Goodman, Vasantha Padmanabhan and Michael N. Lehman (2007) Sex differences in neuronal expression of dynorphin and neurokinin B in the control of gonadotropin-releasing hormone secretion in the sheep. Annual Meeting Canadian Association for Neuroscience.
94. Joost Wiskerke, Danielle Counotte, Cleusa deOliveira, and Lique M. Coolen (2007) Homer-1 in the nucleus accumbens is involved in sexual behavior in male rats. Annual Meeting Canadian Association for Neuroscience.
95. Cleusa de Oliveira and Lique M. Coolen (2007) Ejaculation-induced activation of NMDA receptors and MAP kinase in spinothalamic cells in the lumbosacral spinal cord of male rats. Annual Meeting Canadian Association for Neuroscience.
96. Guanliang Cheng, Lique M. Coolen, Meghan E. Reale, Robert L. Goodman, Vasantha Padmanabhan and Michael N. Lehman (2007) Influence of prenatal androgens on dynorphin and NKB-expressing neurons in the mediobasal hypothalamus of the sheep. Annual Meeting Endocrine Society.
97. G. Cheng, L.M. Coolen, M. Reale, R.L. Goodman, T.M. Lee, V. Padmanabhan, M.N. Lehman. (2007) Sex differences in kisspeptin neurons in the sheep hypothalamus. Annual Meeting of Society for Neuroscience, abstract# 194.14.

98. M.E. Reale, L.M. Coolen, G. Cheng, R.L. Goodman, M.N. Lehman. (2007) Sexual dimorphism of dynorphin A and neurokinin B-containing inputs onto gonadotropin-releasing hormone neurons in the sheep. Annual Meeting of Society for Neuroscience, abstract# 194.17.
99. K.K. Pitchers, L.M. Mascan. G. Cheng, L.M. Coolen, H.J. Billings, C.C. Nestor, R.L. Goodman, M.N. Lehman. (2007) Seasonal changes in the number of kisspeptin-immunoreactive neurons in the ewe: possible role in seasonal reproductive transitions. Annual Meeting of Society for Neuroscience, abstract# 194.15
100. L.M. Coolen, J. Smith, I. Clarke, C.V.R. De Oliveira, M.R. Jafarzadeh, J. Iqbal, M.N. Lehman, R.L. Goodman. (2007) Arcuate kisspeptin neurons in the sheep contain both dynorphin and neurokinin B. Annual Meeting of Society for Neuroscience, abstract# 194.16.
101. J. Wiskerke, D.S. Counotte, K.K. Pitchers, X. Wang, C.V.R. De Oliveira, M.N. Lehman, P.F. Worley, L.M. Coolen. (2007) Homer-1 in the nucleus accumbens mediates sexual behavior in male rats. Annual Meeting of Society for Neuroscience, abstract# 842.14.
102. K.S. Frohmader, J. Wiskerke, M.N. Lehman, L.M. Coolen. (2007) Do drugs and sexual behavior activate the same cells in the limbic system? Annual Meeting of Society for Neuroscience, abstract# 915.17.
103. C.M. Tenk, K.K. Pitchers, L.M. Coolen (2008) Behavioral and neural changes following repeated sexual experience in male rats. Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P1.53
104. K.K. Pitchers, C.M. Tenk, and L.M. Coolen (2008) Psychostimulant-associated reward is altered by sexual experience in male rats. Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P1.54
105. A. Bailey, CM. Tenk, and L.M. Coolen (2008) The role of galanin in a spinothalamic pathway regulating sexual reward and inhibition in the male rat. Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P2.44
106. M.D. Staudt, C.V.R. de Oliveira, and L.M. Coolen (2008) Ejaculation results in activation of the map kinase signaling pathway in lumbar spinothalamic cells of the male rat. Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P2.55
107. A.R. Di Sebastiano, S. Yong-Yow, L.M. Coolen (2008) The role of orexin in male rat sexual behavior. Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P3.8
108. M.N. Lehman, G. Cheng, R.L. Goodman, T. Lee, V. Padmanabhan, and L.M. Coolen (2008) Prenatal testosterone alters the balance of neuropeptide/steroid receptor expression within a single subpopulation of the arcuate nucleus: A model for PCOS? Annual Meeting Soc. Behavioral Neuroendocrinology, abstract P3.25



109. Pitchers K.K, Frohmader K.S., Vialou V., Nestler E.J., and Coolen L.M. (2008) DeltaFosB in the nucleus accumbens regulates sexual experience. Annual Meeting of Society for Neuroscience, abstract# 97.3
110. Di Sebastiano A.R., Yong-Yow S., and Coolen L.M. (2008) The role of orexin in sexual behavior and sexual reward of the male rat. Annual Meeting of Society for Neuroscience, abstract# 97.4
111. Bailey A.M., De Oliveira C.V.R., Truitt W.A., Tenk C.M., and Coolen L.M. (2008) The role of galanin in a spinothalamic pathway regulating sexual reward and satiety in the male rat. Annual Meeting of Society for Neuroscience, abstract# 97.5
112. Frohmader K.S., Bateman K.L., and Coolen L.M. (2008) Taking the risk: effects of methamphetamine on sexual behavior in male rats. Annual Meeting of Society for Neuroscience, abstract# 358.5
113. Sheppard K.M., Coolen L.M., Cheng G., Padmanabhan V., and Lehman M.N. (2008) Prenatal programming by excess testosterone of appetite regulatory peptides in the arcuate nucleus of the female sheep. Annual Meeting of Society for Neuroscience, abstract# 474.12
114. Cheng G., Coolen L.M., Jackson L.M., Padmanabhan V., and Lehman m.N. (2008) Anti-androgen treatment partially restores the neuropeptide imbalance seen in the arcuate nucleus of sheep treated prenatally with testosterone. Annual Meeting of Society for Neuroscience, abstract# 474.13
115. Webb I.C., Baltazar R.M., Coolen L.M., and Lehman M.N. (2008) Diurnal variation in natural reward in the male rat. Annual Meeting of Society for Neuroscience, abstract# 585.4
116. Staudt M.D., De Oliveira C.V.R., and Coolen L.M. (2008) Activation of the MAP kinase signaling pathway and glutamate receptors in lumbar spinothalamic cells with ejaculation. Annual Meeting of Society for Neuroscience, abstract# 582.21
117. Maltby M. J., Brown E., Coolen L.M., Cheng G., Goodman R.L., and Lehman M.N. (2008) Dopamine D2 receptors are colocalized in gonadotropin-releasing hormone (GnRH) and dynorphin neurons in the mediobasal hypothalamus of the anestrous ewe. Annual Meeting of Society for Neuroscience, abstract# 781.6
118. Oakley A.E., Coolen, L.M., Lehman, M.N., Wagenmaker, E.R., and F. J. Karsch (2009) Are dynorphin neurons in the arcuate nucleus responsive to cortisol and influenced by the combined presence of cortisol and estradiol? Endocrine Society Meeting. Washington DC.
119. Sheppard, K. M., Cheng, G., Coolen, L. M., Padmanabhan, V., and M.N. Lehman (2009) Agouti-related peptide (AgRP) neurons as key targets for the influence of prenatal testosterone on the metabolic system of the ewe. Endocrine Society Meeting. Washington DC.

120. Merkle, C., Coolen, L.M., Jackson, L., Goodman, R.L. and M.N. Lehman (2009) Evidence for transcriptional activation of arcuate kisspeptin neurons, and glutamatergic input to kisspeptin during the preovulatory GnRH surge of the sheep. Endocrine Society Meeting. Washington DC.
121. Brown, E., Lee, T.M., Padmanabhan, V., Lehman, M.N. and L. M. Coolen (2009) Sex differences and the effect of prenatal testosterone on dopamine cells of the ventral tegmental area in the sheep. Endocrine Society Meeting. Washington DC.
122. Ladha, Z., Coolen, L.M., Goodman, R.L. and M.N. Lehman (2009) Reproductive seasonality and the effects of thyroid hormone on neurotrophin expression in the ewe. Society for the Study of Reproduction, Pittsburgh, PA.
123. Kyle K. Pitchers, Caroline M. Coppens, Jonathon Fuller, Sandy Van, and Lique M. Coolen (2009). Neuroplasticity of dopaminergic neurons in the ventral tegmental area mediates reinforcement of male sexual behavior. Society for Behavioral Neuroendocrinology Abstracts, East Lansing, MI, USA [International Conference].
124. C. V. R. DE OLIVEIRA, M. D. STAUDT, M. N. LEHMAN, K. E. MCKENNA, L. M. COOLEN (2009) Supraspinal inhibition of ejaculation reflex is mediated by GABA, but not serotonin C. Annual Meeting of Society for Neuroscience Abstract# 372.27
125. K. K. PITCHERS, C. M. COPPENS, J. FULLER, S. VAN, L. M. COOLEN (2009) Opioid-induced neuroplasticity of dopaminergic neurons in the ventral tegmental area mediates reinforcement of natural reward. Annual Meeting of Society for Neuroscience Abstract # 550.3
126. A. R. DI SEBASTIANO, S. SCHMID, K. K. PITCHERS, M. N. LEHMAN, L. M. COOLEN (2009) Natural reward induces long-term neural plasticity in the nucleus accumbens. Annual Meeting of Society for Neuroscience Abstract # 550.4
127. R. L. GOODMAN, S. HILEMAN, C. NESTOR, I. HOLASKOVA, J. M. CONNORS, R. P. MILLAR, L. M. COOLEN, M. N. LEHMAN (2009) Kisspeptin actions in the arcuate nucleus of ewes are necessary for episodic GnRH secretion. Annual Meeting of Society for Neuroscience Abstract # 665.12
128. M. E. REALE, L. M. COOLEN, X. WANG, M. N. LEHMAN (2009) Rhythmic expression of runx2 in the suprachiasmatic nucleus and other regions of the adult mouse brain. Annual Meeting of Society for Neuroscience Abstract # 869.10
129. Robert Caratun, Kyle Pitchers, Lique Coolen (2010) Sex differences in drug effects and underlying neural network. Annual Meeting of Organization for the Study of Sex Differences
130. Erinna Brown, Theresa M. Lee, Vasantha Padmanabhan, Michael N. Lehman and Lique M. Coolen (2010) Annual Meeting of Organization for the Study of Sex Differences

131. Erinna Brown, Theresa M. Lee, Vasantha Padmanabhan, Michael N. Lehman and Lique M. Coolen (2010) The ventral tegmental area dopamine system is masculinized by prenatal testosterone via androgen receptor action in female sheep. Annual Meeting Soc. Behavioral Neuroendocrinology
132. Matthew J. Barnes and Lique M. Coolen (2010) Effects of North American Ginseng on Sexual Behaviour and Erectile Function in Male Rats. Annual Meeting Soc. Behavioral Neuroendocrinology
133. Webb, I.C., Baltazar. R.M., Coolen, L.M.& Lehman M.N. (2010). Ocular and circadian regulation of phosphorylation of extracellular regulated kinase and the NR1 NMDA receptor subunit in the hamster suprachiasmatic nucleus. Poster presented at the Society for Research on Biological Rhythms Biennial Meeting in Sandestin, FL.
134. Baltazar. R.M., Webb, I.C., Coolen, L.M.& Lehman M.N. (2010). Diurnal rhythms in cFos immunoreactivity in the mesolimbic reward system. Poster presented at the Society for Research on Biological Rhythms Biennial Meeting in Sandestin, FL.
135. Merkle, CM, Coolen, LM, Goodman, RL, Lehman, MN (2010). Colocalization of glutamate within kisspeptin cells and their projections to GnRH neurons in the ewe. International Conference for Neuroendocrinology, France.
136. Di Sebastiano AR, Wang X, Coolen LM (2010). Sexual reward abstinence causes depression-like behavior and changes in expression of corticotropin releasing factor in male rats. Society for Neuroscience Meeting, November 2010, San Diego, CA.
137. Pitchers KK, Wang X, Di Sebastiano AR, Coolen LM (2010). The Role of mGluR5 signaling in the nucleus accumbens in sexual behavior of male rats. Society for Neuroscience Meeting, November 2010, San Diego, CA.
138. Kyle K. Pitchers, Xu Wang, and Lique M. Coolen (2010). mGluR5 signaling in the nucleus accumbens mediates sexual behavior in male rats. Society for Neuroscience Abstracts, San Diego, CA, USA.
139. Robert Caratun, Kyle K. Pitchers, and Lique M. Coolen (2010). Sexual differences in drug effects and underlying neural circuitry. Society for Behavioral Neuroendocrinology Abstracts, Toronto, Ontario, Canada.
140. Robert Caratun, Kyle K. Pitchers, and Lique M. Coolen (2010). Sexual differences in drug effects and underlying neural circuitry. Organization for the Study of Sex Differences Abstracts, Ann Arbor, MI, USA
141. Natalie A. Kozyrev, Karla S. Frohmader, Lique M. Coolen (2010) Glutamate in the parvocellular subparafascicular thalamic nucleus regulates sexual behavior in male rats. Annual Meeting Soc. Behavioral Neuroendocrinology, July 2010, Toronto, Ontario, Canada.

142. Di Sebastiano AR, Wang X, Coolen LM (2010). Role of Corticotropin Releasing Factor in Sexual Behavior and Experience in the Male Rat. Society for Behavioral Neuroendocrinology Meeting, July 2010, Toronto, Ontario, Canada.
143. Kyle K. Pitchers, Vincent Vialou, Eric J. Nestler, Michael N. Lehman, and Lique M. Coolen (2011). DeltaFosB in the nucleus accumbens regulates sexual experience-induced sensitization of amphetamine reward. Society for Behavioral Neuroendocrinology Abstracts, Queretaro, Mexico.
144. Di Sebastiano AR, Coolen LM (2011). Abstinence from sexual behavior induces depression in male rats by activation of corticotropin releasing factor receptors. Society for Behavioral Neuroendocrinology Meeting, June 2011, Queretaro, Mexico.
145. Cernea, M., Padmanabhan, V., Merkley, C., Coolen, L.M., Lee, T., and Lehman, M.N. 2011. Effects of prenatal testosterone on KNDy-GnRH circuitry in the a sheep model of PCOS. 93<sup>rd</sup> Annual Endocrinology Conference in Boston, MA
146. Di Sebastiano AR, Coolen LM (2011). Depression-like behavior following abstinence from sexual behavior in male rats is mediated by activation of corticotropin releasing factor receptors. Anxiety and Depression: 21<sup>st</sup> Neuropharmacology Conference, November 2011, Falls Church, VA.
147. Kyle K. Pitchers, Vincent Vialou, Eric J. Nestler, Michael N. Lehman, and Lique M. Coolen (2011). DeltaFosB in the nucleus accumbens is critical for enhanced amphetamine reward and nucleus accumbens spine density caused by sexual experience in male rats. Society for Neuroscience Abstract #67.01
148. Kozyrev, N and Coolen LM (2011) Gastrin releasing peptide receptor activation in the spinal cord is required for ejaculation. Annual Meeting of Society for Neuroscience, abstract# 391.04
149. Baltazart RM, Webb IC, Coolen LM< and Lehman MN (2011) The prefrontal cortex modulates diurnal rhythms in cFos immunoreactivity in the mesolimbic reward system. Annual Meeting of Society for Neuroscience, abstract# 408.06
150. Cernea M, Lee TM, Cheng G, Padmanabhan V, Lehman MN, and Coolen LM. (2011) Excess prenatal testosterone increases androgen receptor expression in the female sheep brain. Annual Meeting of Society for Neuroscience, abstract# 499.20
151. Reale ME, Webb IC, Coolen LM< and Lehman MN (2011) Evidence that the transcription factor runx2 plays a functional role in the control of circadian rhythms in the suprachiasmatic nucleus. Annual Meeting of Society for Neuroscience, abstract# 506.05
152. Webb IC, Lee HS, Lehman MN, and Coolen LM (2011) Neurochemical identity of suprachiasmatic nucleus cells that express rhythmic ERK phosphorylation under the control of the eye. Annual Meeting of Society for Neuroscience, abstract# 602.21

153. Merkle CM, Coolen LM, Goodman RL, and Lehman MN (2011) Direct projections of arcuate kndy (kisspeptin/neurokinin b/dynorphin) neurons to gnRH neurons in the sheep. Annual Meeting of Society for Neuroscience, abstract# 712.05
154. Frohmader KS and Coolen LM (2011) Neural substrates of inhibition of sexual behavior in the male rat: Effects of methamphetamine. Annual Meeting of Society for Neuroscience, abstract# 714.12
155. Di Sebastiano AR and Coolen LM (2011) Depression-like behavior following abstinence from sexual behavior in male rats is mediated by activation of corticotrophin releasing factor receptors. Annual Meeting of Society for Neuroscience, abstract# 904.04
156. Kyle K. Pitchers and Lique M. Coolen (2012). D1 dopamine receptors in the nucleus accumbens are critical for enhanced amphetamine reward and nucleus accumbens deltafosb accumulation caused by sexual experience in male rats. Winter Conference on Brain Research, Snowbird, UT, USA.
157. Di Sebastiano AR, Coolen LM (2012). Loss of sexual reward causes depression-like behaviors including passive stress coping and anhedonia in male rats. Society for Behavioral Neuroendocrinology, June 2012, Madison, WI.
158. Kyle K. Pitchers and Lique M. Coolen (2012). D1 dopamine receptors in the nucleus accumbens are critical for enhanced amphetamine reward and nucleus accumbens deltafosb accumulation caused by sexual experience in male rats. Society for Behavioral Neuroendocrinology Abstracts, Madison, WI, USA.
159. Cernea, M., Coolen, L, Phillips, R., and Lehman, M.N. 2012. Neural pathways by which leptin may modulate GnRH secretion in the sheep: activation of AgRP, POMC and kisspeptin (KNDy) neurons. 94<sup>th</sup> Annual Endocrinology Conference in Houston, TX.
160. Webb IC, baltazrt RM, Coolen LM, and Lehman MN (2012) Retinohypothalamic glutamate and PACAP release are necessary for the rhythms in SCN core ERK phosphorylation in the absence of light. Society for Neuroscience, Abstract 193.02
161. Merkle CM, Frazao R, Coolen LM, Clegg DJ, Elias CF, and Lehman MN (2012) Estrogen-induced plasticity in glutamatergic inputs to Kiss1 neurons in the mouse. Society for Neuroscience, Abstract 383.20
162. Cernea M, Phillips R, Padmanabhan V, Coolen LM, and Lehman MN (2012) Colocalization of insulin receptors in KNDy, but not GnRH neurons in the ewe: Effects of excess prenatal testosterone. Society for Neuroscience, Abstract 585.12

## Service

### Professional Affiliations

#### **Committee Membership:**

Society for Behavioral Neuroendocrinology (SBN):

2001-2003	Member Educational Committee SBN
2003	Elected Host for annual meeting SBN (Cincinnati; 450 attendees)
2010	Elected co-Host annual meeting SBN (Toronto; approx. 400 attendees)
2010	Member Young Investigator Award Committee
2010-present	Member Program Committee

American Association of Anatomists:

2003-2007	Member of Awards Committee
2005-2007	Chair of Awards Committee
2008-2009	Member Selection Committee Postdoctoral Awards
2009-2010	Chair Selection Committee Postdoctoral Awards
2010-present	Member Membership Committee and Member Special Membership Subcommittee

Southern Ontario Neuroscience Association (Canada):

2008	Co-Host annual meeting (125 attendees)
2008-2010	Member Travel Awards Committee

#### **Additional Membership:**

Society for Neuroscience

Women in Neuroscience

International Organization for Brain Research

The Cajal Club

### Faculty Mentoring and Career Development Activities

#### **Invited Presentations:**

1. 2007: Invited Speaker, ANDP symposium "How to balance life and career", Annual meeting for Society for Neuroscience, San Diego, CA, USA.
2. 2010: Invited Speaker, PDC-organized workshop at the Society for Neuroscience meeting entitled "Essential Skills for a Successful Mentoring Relationship, San Diego, CA
3. 2011: Invited Speaker, Preparing Future Faculty Conference on "Starting and Running a Research Lab." Rackham School of Graduate Studies, University of Michigan

#### **Organization Faculty Development Conferences:**

2010 Member Program Committee, Canadian Institute for Health Research (Canada): Young Investigator Conference

**Attendance Faculty Development Workshops**

2007 Faculty Development Workshop for Mid-Career women; AAMC (invited by AAMC)

2009 Faculty Development Workshop; Ivey Business School University Western Ontario (invited by Dean of Medicine, University of Western Ontario)

**Journal Service:**

**Member Editorial Board**

2003-present Physiology and Behavior

2004-2012 Neuroscience and Biobehavioral Reviews (2003-2012)

2006-present Behavioral Neuroscience

2009-present European Journal of Neuroscience (reviewing editor)

**Guest Editor Special Issues**

Physiol Behav. 2004 Nov 15;83(2) Male sexual function

**Reviewer for International Journals (selection of last 5 years, in alphabetical order)**

Behavioral Neuroscience, Behavioural Pharmacology, Biological Psychiatry, Biology of Reproduction, Brain Research, Hormones and Behavior, J. Comparative Neurology, J. Neurobiology, J. Neurochemistry, J. Neuroendocrinology, J. Neuroscience, J. Neuroscience Research, J. Sexual Medicine, Nature Neuroscience Reviews, Neuroendocrinology, Neuropsychopharmacology, Neuroscience, Neuroscience and Biobehavioral Reviews, Molecular Neurobiology, Neuropsychopharmacology, Physiology & Behavior, PNAS, Psychopharmacology, Science, Synapse

**Grant Review**

2000 NIH NIDA Special Emphasis Panel “Microarray-based research on drug abuse” ZDA1 RXL-E 20R (Ad Hoc)

2000 NIH NIDA Special Emphasis Panel (Ad Hoc)

2001-present Nederlands Wetenschappelijk Onderzoek, the Netherlands (Ad Hoc)

2002-present National Science Foundation: Behavioral Neuroendocrinology (Ad Hoc)

2002 NIH Special Emphasis Panel ZRG1 UROL (01): Urology (Ad Hoc)

2005 NIH Special Emphasis Panel NICHD (Ad Hoc)

2005 The Netherlands Organization for Health Research and Development (Ad Hoc)

2006 NIH Special Emphasis Panel NICHD (Ad Hoc)

2007-present NSERC (Ad Hoc)

2008-present CIHR, Behavioral Sciences A (Member)

2009-2010 Early Research Award – Life Sciences Panel; Ministry of Research and Innovation (Member)

2010 CIHR, Gender, Sex, and Health panel (ad hoc)

2011 Hungarian Research Fund, Hungary (ad hoc)

**Reviewer (external) Graduate Programs/Departments**

2010 External consultant for appraisal Neuroscience Department and MSc/PhD program in Neuroscience at Carleton University in Ottawa, Ontario, Canada

**National/International Committees**

2002-2003 International Consultation on Erectile and Sexual Dysfunctions, Co-sponsored by World Health Organization, International Consultation on Urological Diseases

**Service for Universities, Departments, and Graduate Programs**

*University of Mississippi Medical Center (2012-present)*

**Faculty/Universities Committees**

2012-present Member Graduate Council

2012-present Member Faculty Mentoring Committee

**Neuroscience Graduate Program**

2012-present Member Steering Committee

2012-present Member Curriculum Committee

*University of Michigan (2011- 2012)*

**Faculty/Universities Committees**

2011-2012 Member University Committee on the Use and Care of Animals

**Departmental Committees**

2011-2012 Elected Member Psychology Augmented Executive Committee (Promotion and Tenure Committee)

**Neuroscience Graduate Program**

2012 Interim Director

2011-2012 Associate Director

2011-2012 Member Executive committee

2011-2012 Member Curriculum Review Committee

2011-2012 Member Student Admissions Committee

*University of Western Ontario (2006-2010)*

**Faculty/Universities Committees**

2008-2010 Member Schulich Research Committee

2008-2010 Member Schulich Research Executive Committee

2008-2010 Member Animal Use Subcommittee

2009 Member Animal Use Protocol Development Committee

2008-2010 Member SUPAD- Academic Development Fund review committee



- 2008 Member Selection Committee Tier 1 Canada Research Chair in Cardiology & Regenerative Medicine  
 2008 Member Review Committee for the Tanna Schulich Chair in Neurosciences & Mental Health

**Neuroscience Graduate Program**

- 2008-2010 Member Curriculum Committee

**Departmental Committees**

*Department of Physiology & Pharmacology:*

- 2008-2009 Member GSC Curriculum Development Subcommittee  
 2006-2010 Member Graduate Studies Committee (GSC)  
 2006-2007 Faculty appointments Committee (elected member)

*Department of Anatomy & Cell Biology:*

- 2006-2010 Member Graduate Affairs Committee  
 2006-2010 Chair Research Committee  
 2006-2010 Member Mentoring Committee Steven Laviolette (Assistant Professor)  
 2006-2010 Member Mentoring Committee Susanne Schmid (Assistant Professor)  
 2006-2010 Member Mentoring Committee Lynn Postovit (Assistant Professor)  
 2006-2010 Organizer Annual Departmental Research Day and Retreat  
 2008 (Oct) Organizer Murray Barr Lecture  
 2006-2007 Organizer Departmental Research Forum  
 2006 Member Search Committee Joined appointment ACB and Phys/Pharm  
 2006 Chair Search Committee Assistant Professor Neuroscience  
 2006 (Sept) Organizer Murray Barr Lecture

*University of Cincinnati (1998-2005)*

**Faculty/Universities Committees**

- 2005 Member Search Committee Director Laboratory Animal Medical Science  
 2004-2005 Member Biosafety Committee  
 2004-2005 Member Advisory Committee Director Laboratory Animal Medical Science

**Neuroscience Graduate Program**

- 2000-2005 Member Executive committee  
 2000-2005 Member Recruitment committee  
 2000-2005 Member Organizing Committee bi-annual Neurofest Symposium

**Educational Activities**

**Teaching Experience**

*University of Mississippi Medical Center (present)*

Medical Student Teaching:

2012-2013 Medical Physiology; Lecturer

Graduate Student Teaching:

2012 Advanced Neurobiology (NAS 733); Lecturer

*University of Michigan (2011-2012)*

Medical Student Teaching:

2011 Endocrine/Repro 510; Lecturer

Graduate Student Teaching:

2011-2012 Neuroscience 601 and 602; Course Coordinator and Lecturer

2011-2012 Neuroscience 700 (Seminar series); Course Coordinator

Undergraduate Student Teaching:

2011-2012 Mammalian Reproductive Endocrinology; Course Coordinator and Lecturer

*The University of Western Ontario (2006-2010)*

Graduate Student Teaching:

2007-2010 Anatomy 9550 Advanced Topics in Integrative Neuroscience; Course developer; Course Manager and Lecturer

2008-2010 Physiology Communication Skills and Critical Thinking 9551; Course Co-Manager and Lecturer

2009-2010 Neuroscience 9602 and 9603 Grant Writing Courses; Course Manager

Undergraduate Student Teaching:

2009-2010 Anatomy 9440 Integrative Neuroscience; Lecturer

2006-2010 Physiology 462a Endocrine and Reproductive Physiology; Lecturer

2006-2010 Physiology 480E Seminar and Research Project; Project Supervisor

2007-2008 Physiology 313y Physiology Laboratory (Endocrine Laboratory); Laboratory Supervisor

2007-2010 Pharmacology 438b Neuropharmacology; Lecturer

*University of Cincinnati (1998-2005)*

Medical Student Teaching:

1999-2005 Lab Instructor, Brain and Behavior I (First year course Medical and Graduate students), University of Cincinnati, College of Medicine

2000-2005 Lecturer, Brain and Behavior I (First year course Medical and Graduate students), University of Cincinnati, College of Medicine

Graduate Student Teaching:

1998 Lecturer Neuroendocrinology (Advanced Neuroscience Graduate

- 1999-2005 course) University of Maryland, Baltimore, Medical School  
Lecturer Systems and Behavioral Neuroscience (Advanced Neuroscience Graduate course) University of Cincinnati, College of Medicine
- 2001-2005 Lecturer Neuroendocrinology of Homeostasis: Molecules and Systems (Advanced Neuroscience Graduate course) University of Cincinnati, College of Medicine
- 2005-2005 Course Director Systems and Behavioral Neuroscience (Advanced Neuroscience Graduate course) University of Cincinnati, College of Medicine

### **Course Development**

- 2007 Anatomy 9550 Advanced Topics in Integrative Neuroscience  
2008 Physiology 9551 Communication Skills and Critical Thinking  
2009 Anatomy 9555 Advanced Topics in Cell Biology

### **Research Supervisor to:**

#### Postdoctoral Fellows (5):

- 2007-2008 Christine Tenk, PhD (Assistant Professor, Dept. Social Sciences, Brescia College at The University of Western Ontario, CA)  
2006-2007 Qi Zhang, PhD (Assistant Professor, China)  
2003-2005 Julian Allard, PhD (Project Manager, Pfizer Pharmaceuticals)  
2003-2004 Juan Dominguez, PhD (Assistant Professor, Dept. Psychology, University Texas, Austin, USA)  
2000-2003 William Truitt, PhD (Associate Professor, Dept, Anatomy, Indiana University, USA)

#### Graduate Students:

*The University of Western Ontario (2006-present)*

#### *MSc Theses (5):*

##### *Past*

- Robert Caratun (M.Sc. Anatomy & Cell Biology; September 2009-August 2011)
- Matthew Barnes (M.Sc. Pharmacology; May 2009- August 2011)
- Erinna Brown (M.Sc. Anatomy & Cell Biology; September 2008-August 2010); Present: Medical student McMaster University
- Michael Staudt (M.Sc. Anatomy & Cell Biology; September 2007-July 2009) Spinal control of ejaculation; Present: Medical student UWO
- Alisha Bailey (M.Sc. Anatomy & Cell Biology; September 2007-August 2009) Role of a spinothalamic pathway in sexual reward and satiety.

#### *International MSc theses (3):*

##### *Past*

- Caroline Coppens (M.Sc. University of Groningen, the Netherlands; February 2008-October 2008) Effects of sexual experience on neural plasticity in the ventral tegmental area; Present: PhD student University of Groningen.

- Joost Wiskerke (M.Sc. Free University Amsterdam, the Netherlands; April 2006-April 2007) The role of Homer -1 in the nucleus accumbens for sexual behavior in male rats; Present: Postdoctoral Fellow Princeton University.
- Edwin Alserda (M.Sc. University of Groningen, the Netherlands; April 2007-December 2007) Expression of limbic-associated membrane protein is essential for male sexual behavior; Present: PhD student University Utrecht.

*PhD Theses (3):*

*Past*

- Andrea DiSebastiano (Ph.D. Anatomy & Cell Biology; September 2007-October 2012; transitioned from M.Sc. studies; CIHR Award) Social reward and depression.
- Kyle Pitchers (May-September 2007: NSERC summer fellowship; Ph.D. Anatomy & Cell Biology: September 2007-July 2012; NSERC Award) Effects of sexual experience on drug responsiveness; Present: Postdoctoral Fellow University of Michigan
- Karla Frohmader (Ph.D. Anatomy & Cell Biology; September 2006-October 2011) Methamphetamine acts on neural circuits controlling sex to cause compulsive sex seeking; Present: Postdoctoral Fellow University of Michigan

*PhD Theses (2):*

*Present*

- Natalie Kozyrev (Ph.D. Anatomy & Cell Biology; September 2009-present) Role of a spinothalamic-forebrain pathway for sexual reward and satiety.

*University of Cincinnati (2000-2005)*

*International MSc theses (2):*

- Maarten Loos (M.Sc. University of Wageningen, the Netherlands; April 2003-October 2003) The role of the prefrontal cortex in regulation of male sexual behavior in rats; Present: Research Scientist, Industry.
- Danielle Counotte (M.Sc. University of Utrecht, The Netherlands; October 2004-April 2005) The role of Homer-1 for the expression of sexual behavior in male rats; Present: Postdoctoral Fellow University Maryland, Baltimore.

*PhD Theses (4):*

- Brooke Davis (Neuroscience Grad Program; September 2001-June 2006) The role of endogenous opioid peptides on male sexual behavior; Present: Grants Administrator University Texas, Houston.
- Jon Davis (Neuroscience Grad Program; September 2001-July 2005) A functional, anatomical, and molecular investigation of reward; Present: Postdoctoral Fellow University of Cincinnati.
- Margaret Balfour (MD/Ph.D.; co-advisor Dr. Yu; January 2001-July 2003) Sexual behavior causes activational and functional alterations of the mesolimbic system: Neurobiology of motivation and reward; Present: Clinical Assistant Professor, University of Texas South Western, medical Center.

- Ryan Walsh (MD/Ph.D.; co-advisors Drs Xu and Lehman; January 2001-May 2002) Neural activation by acute and chronic drug administration; Present: Instructor, Francis and Ingeborg Heide Schumann Fellow, Department of Neurology, University of Alabama at Birmingham

Undergraduate Students:

*The University of Michigan (2010-2012) (2)*

- Amanda Kleeman (4<sup>th</sup> year Psychology; honors research mentor)
- Celia Upton (4<sup>th</sup> year Psychology; honors research mentor)

*The University of Western Ontario (2006-2010) (15)*

- Jacob Davis (4<sup>th</sup> year BMSc; 2009-2010; Physiology 4980 Honors Research)
- Sandy Van (4<sup>th</sup> year BMSc; 2008-2009; Physiology 4980 Honors Research)
- Deanna Vertesi (4<sup>th</sup> year BMSc; 2008-2009; Physiology 4980 Honors Research)
- Sabrina Yong-Yow (4<sup>th</sup> year BMSc; 2007-2008; Physiology 480E Honors Research)
- Katherine Bateman (4<sup>th</sup> year BMSc; 2007-2008; Physiology 480E Honors Research)
- Andrea Di Sebastiano (4<sup>th</sup> year BMSc; 2006-2007; Physiology 480E Honors Research)

*NSERC Summer Fellowship Students*

- Marissa Tsoi (3<sup>th</sup> year BMSc UWO; 2009)
- Jonathan Fuller (2<sup>th</sup> year BMSc UWO; 2008)
- Kyle Pitchers (4<sup>th</sup> year Queens University; 2007)
- Katherine Bateman (4<sup>th</sup> year BMSc UWO; 2007)

*Summer, work, and volunteer students:*

- Zamin Ladha (4<sup>th</sup> year BMSc; fall 2007; volunteer)
- Nicholas Matnovich (4<sup>th</sup> year BMSc; summer 2007; volunteer)
- Daniel Parmer (4<sup>th</sup> year BMSc; summer 2007; volunteer)
- Colleen McMullin (3<sup>th</sup> year BMSc; 2006-2007; volunteer)
- Sabrina Shiu Won Tung (4<sup>th</sup> year BMSc; 2006-2007; work student)

*University of Cincinnati (2000-2005) (17)*

1999	Daniel Bingham	Xavier University, Cincinnati, OH, USA
1999	Sidney Van Ess	Central College, Danville, KY, USA
1999	Valerie Elois	University of Chicago, Chicago, IL, USA
2000	Marissa Miller	Duke University, Durham NC, USA
2000	Laura Lamons	Berea College, Berea, KY, USA
2000	Kevin Sellers	University of Notre Dame, Notre Dame, IN, USA
2000	Reshma Rangwala	MD/PhD program, Univ. Cincinnati, OH, USA
2001	Megan Straiko	Neurosci Grad Program, Univ. Cincinnati, OH, USA
2002	Jessica Barclay	Neurosci Grad Program, Univ. Cincinnati, OH, USA
2002	Lauren Wagner	University of Notre Dame, Notre Dame, IN, USA
2002	Eliza Swift	Walnut Hills High School, Cincinnati, OH, USA
2002	Rotimi Okunadi	Walnut Hills High School Cincinnati, OH, USA
2003	Lauren Wagner	University of Notre Dame, Notre Dame, IN, USA
2003	Jason Barrera	MD/PhD program, Univ. Cincinnati, OH, USA
2003	Robert Hufnagel	MD/PhD program, Univ. Cincinnati, OH, USA

2004	Purab Wisvanath	Northwestern University, Cicago, IL, USA
2004	Hilary Wilson	Indiana University, Indianapolis, IN, USA

**Membership Advisory and Exam Committees:***The University of Michigan (2010-2012)*Advisory Committees:

2011-2012	Austin York	Ph.D. Neuroscience
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Prelim Exams

2012	Elizabeth Rodriquez	Ph.D. Neuroscience
2012	Ramses Alcaide	Ph.D. Neuroscience
2012	John Greco	Ph.D. Neuroscience
2012	Abbie Garrity	Ph.D. Neuroscience
2011	Aneesha Badrinaryan	Ph.D. Neuroscience
2011	Katherine Prater	Ph.D. Neuroscience

*The University of Western Ontario (2006-2010)*Advisory Committees:

2008-present	Christina Merkley	Ph.D. Neuroscience	Co-Supervisor
2008-present	Maria Cernea	Ph.D. Anatomy & Cell Biology	Co-Supervisor
2008-2010	Ning Chi	M.Sc. Anatomy & Cell Biology	Chair
2008-2010	Erinna Brown	M.Sc. Anatomy & Cell Biology	Supervisor
2008-2010	Zamin Ladha	M.Sc. Anatomy & Cell Biology	Co-Supervisor
2008-2010	Patrick Swan	M.Sc. Physiology	Chair
2008-2010	Jacob Szereszewski	M.Sc. Physiology	Member, chair
2008-2010	Henry Dunn	M.Sc. Physiology	Chair
2007-2010	Tamara Abraham	M.Sc. Physiology	Chair
2007-2010	David Judah	M.Sc. Physiology	Chair
2007-2010	Arash Kia	M.Sc. Physiology	Chair
2007-2010	Christine Bell	M.Sc. Physiology	Chair
2007-2008	Andrew Prout	M.Sc. Physiology	Chair
2006-2008	Stephen Wegner	M.Sc. Physiology	Chair
2007-2010	Ciric To	M.Sc. Pharmacology & Toxicology	Member, chair
2006-2010	Anica Bjelica	Ph.D. Anatomy & Cell Biology	Member, chair
2006-2010	Caroline Albion	M.Sc. Anatomy & Cell Biology	Member, chair
2006-2010	Ruchi Bhalla	Ph.D. Anatomy & Cell Biology	Member, chair
2006-2010	Vik Mohindra	M.Sc. Anatomy & Cell Biology	Member, chair
2006-2010	Stephanie Buyn	M.Sc. Anatomy & Cell Biology	Member, chair
2006-2010	Sonali de Chickera	M.Sc. Anatomy & Cell Biology	Member, chair
2006-2011	Karla Frohmader	Ph.D. Anatomy & Cell Biology	Supervisor
2006-2009	Allisha Bailey	M.Sc. Anatomy & Cell Biology	Supervisor
2006-2009	Michael Staudt	M.Sc. Anatomy & Cell Biology	Supervisor
2006-2012	Andrea DiSebastiano	M.Sc. Anatomy & Cell Biology	Supervisor
2006-2012	Kyle Pitchers	Ph.D. Anatomy & Cell Biology	Supervisor
2006-present	Ricardo Baltazar	M.Sc. Anatomy & Cell Biology	Co-Supervisor
2006-2009	Kayla Sheppard	M.Sc. Anatomy & Cell Biology	Co-Supervisor
2006-present	Meaghan Reale	Ph.D. Anatomy & Cell Biology	Co-Supervisor

2006-2008	Matt Malby	M.Sc. Neuroscience	Co-Supervisor
2006-2007	Paul Nistor	M.Sc. Anatomy & Cell Biology	Chair
2006-2007	Fauzia Nausheen	M.Sc. Anatomy & Cell Biology	Chair

Exam Committees

2010	Vik Mohindra	M.Sc. Anatomy & Cell Biology	Chair
2009	Keeley Rose	Ph.D. Physiology	Examiner
2008	Andre Belisle	M.Sc. Anatomy & Cell Biology	Chair
2008	Benjamin Nagy	M.Sc. Neuroscience	Chair
2007	Kesavan Sathanantham	M.Sc. Neuroscience	Examiner
2007	Jennifer Long	M.Sc. Neuroscience	Examiner
2007	Ivana Albin	M.Sc. Anatomy & Cell Biology	Chair
2007	Jim Elsley	M.Sc. Physiology	Examiner
2007	Ben Fuerth	M.Sc. Physiology	Chair
2006	Tuba Aksoy	M.Sc. Physiology	Examiner
2006	Ruchi Bhalla	M.Sc. Anatomy & Cell Biology	Chair
2006	Kelly Foley	M.Sc. Neuroscience	Chair

Comprehensive Exams

2008	Anica Bjelica	Ph.D. Anatomy & Cell Biology	Mentor, Chair
2007	Christine Bell	Ph.D. Physiology	Chair
2007	Aaron Cox	Ph.D. Physiology	Examiner
2007	Lauri Sutton	Ph.D. Anatomy & Cell Biology	Mentor, Chair
2006	Tom Appleton	Ph.D. Physiology	Examiner

*University of Cincinnati (1998-2006)*

Qualifying Exam Committees

2003	Brooke Davis	Ph.D. Neuroscience	Examiner
2002	Jon Davis	Ph.D. Neuroscience	Examiner
2002	Polly Dornette	Ph.D. Neuroscience	Examiner
2001	Yang Tang	Ph.D. Neuroscience	Examiner
2001	Chad Foradori	Ph.D. Neuroscience	Examiner
2001	Han Lee	Ph.D. Neuroscience	Examiner
2000	Ellen Air	Ph.D. Neuroscience	Examiner
1998	Jennifer Lachey	Ph.D. Neuroscience	Examiner

PhD Dissertation Committees

2004-2006	Megan Straiko	Ph.D. Neuroscience	Advisor, Examiner
2003-2006	Brooke Davis	Ph.D. Neuroscience	Supervisor, Examiner
2003-2006	Dennis Choi	Ph.D. Neuroscience	Advisor, Examiner
2002-2005	Jon Davis	Ph.D. Neuroscience	Supervisor, Examiner
2002-2005	Huiwen Zhao	Ph.D. Biology, University of Alaska	Advisor, Examiner
2001-2003	Margaret Balfour	Ph.D. Neuroscience	Supervisor, Examiner
2001-2003	Han Lee	Ph.D. Neuroscience	Advisor, Examiner
2001-2003	Andy McQuade	Ph.D. Neuroscience	Advisor, Examiner
2001-2003	Chad Foradori	Ph.D. Neuroscience	Advisor, Examiner