

Curriculum Vitae

Cord Michael Brundage, M.S., Ph.D., D.V.M.

Education

2015 - D.V.M., Colorado State University, Fort Collins, CO.

2010 - Ph.D., Zoology, University of Alaska, Fairbanks, AK

"Neuroplasticity and neurotoxicology: Central breathing control following developmental nicotine or ethanol exposure"

2008 - M.S., Biology, University of Alaska Fairbanks, Fairbanks, AK.

2004 - B.S., Zoology, Minor in Biomedical Sciences, Colorado State University, Fort Collins, CO.

Certifications

2015 - Certified Canine Rehabilitation Therapist (CCRT), Canine Rehabilitation Institute, Wellington, FL

2015 - Certified Veterinary Medical Acupuncturist (CVA), Colorado Veterinary Medical Association and OneHealthSIM, Fort Collins, CO

2004 - Certificate in Leadership, Colorado Leadership Institute, Colorado State University, Fort Collins, CO.

Employment

2016- (Present) Animal and Veterinary Sciences Department, Cal Poly Pomona, Pomona, CA
Tenure-track Assistant Professor

2016 – School of Veterinary Medicine, Saint Matthews University, Grand Caymen Island, BWI
Visiting Professor of Physiology (Summer Appointment)

2015 - BluePearl Veterinary Partners, Louisville, KY

Associate Veterinarian: Small animal rotating medicine and surgery internship

2014 -2015 Veterinary Teaching Hospital, Colorado State University, Fort Collins, CO

Emergency Surgery Technician: On-call technician for hospital after-hours surgeries.

2013 - University of Wyoming, Laramie Wyoming

Academic tutor: Undergraduate biology and chemistry tutor

2013 - University of Wyoming, Laramie Wyoming

Conference Assistant: Administrative support for summer conferences

2010- 2012 College of Veterinary Medicine & Biomedical Sciences, Fort Collins, CO

Academic tutor: Physiology and neurology tutor

2011-2012 College of Veterinary Medicine & Biomedical Sciences, Fort Collins, CO

Student Ambassador Program Coordinator: Inaugural program year development

2011- 2012 Hill's Pet Nutrition, Fort Collins, CO

Student representative: Facilitate Hill's support of the veterinary program

2010-2012 Veterinary Teaching Hospital, Colorado State University, Fort Collins, CO

Researcher: Salary support for diagnostic imaging research.

2007-2010 After-Hours Veterinary Emergency Clinic, Fairbanks Alaska

Veterinary Assistant: Triage and provided technical support for small animal clinic

2006-2010 University of Alaska Fairbanks, Fairbanks Alaska

Graduate Research Assistant: Assistantship support for neurophysiology research

2005-2006 University of Alaska Fairbanks, Fairbanks Alaska

Research Assistant: Developing microdialysis probes for ground squirrel study

2004-2005 Campus Activities, Colorado State University, Fort Collins, CO

Program Coordinator: Advising, and administrative support for student government
2000-2004 Campus Activities, Colorado State University, Fort Collins, CO
Student Director: Support student organizations and campus activities mission

Related Professional Training

- 2017 – Infrared Thermal Imaging Training, Cal Poly Pomona, Pomona, CA
Completed a week long intensive under Glen Tattersall, on the use of infrared thermal imaging in animal physiology research
- 2017 – Veterinary Clinical Research Online Course, Canine Rehabilitation Institute, Wellington FL
Completed, ten week program on experimental design and implementation of veterinary clinical research projects
- 2014 - Clinical Electrophysiology Course, Colorado State University, Fort Collins, CO
Three day resident level training course on electrodiagnostics, electromyography and brainstem auditory evoked potentials
- 2013 - Endoscopy and Minimally Invasive Surgery, Colorado State University, Fort Collins, CO. Elective and wet laboratory at Colorado State University in endoscopy, laparoscopy, otoscopy and arthroscopy techniques.
- 2013 - Veterinary Nutritional Advocate, Hill's Pet Nutrition, Topeka KS
Completed Hill's nutritional advocate training program and supplemental elective with Mark Morris Institute on small animal therapeutic diets.
- 2009 - Teaching Physiology Course, University of Alaska Fairbanks, Fairbanks, AK
Completed independent student in biomedical science education and physiology pedagogy.
- 2008 - Research Mentoring, University of Alaska Fairbanks, Fairbanks, AK
Completed course on mentoring young scientists in the biomedical sciences and completed and additional independent practicum

Grants and Fellowships

- 2017 – “Establishment of a Poultry Facility at Cal Poly Pomona for Testing the Efficacy of Vaccines for Avian Respiratory Aspergillosis.” California State University Agricultural Research Institute Grant. 18-04-250. Research funding and equipment for development of avian vaccinology facility.
Brundage, C., Adler-Moore, J., Gekara, O. (\$77,691: \$42,000 matching funds)
- 2017 – “Berry Anthocyanin-rich Diet for the Prevention or Retarding of Ovariectomy-induced Bone Loss.” California State University Agricultural Research Institute Grant. 18-04-253. Research funding for rodent model based nutrition study.
Elam, M., **Brundage, C.** (\$16,782: \$8,391 matching funds)
- 2017 – Instructional Space Improvement Lottery Funded Grant. Cal Poly Pomona
Funding to transition a research space into a versatile animal science teaching laboratory.
Brundage, C., Sandelin, B. (\$102,500)
- 2017 - Special Projects for Intellectual Community Environment (SPICE) Grant: Classroom Modernization Grant. Cal Poly Pomona
Purchasing of physiology equipment to update anatomy and physiology instruction
Brundage, C. (\$24,985)
- 2017 – Summer Undergraduate Research Exchange Grant
Funding to provide research supplies for two undergraduate summer research projects
Brundage, C. (\$3,000)
- 2017 - Academic Affairs Mini-Grant. Cal Poly Pomona
Funds for skeleton cleaning and re-articulation supplies for anatomy instruction
Brundage, C. (\$843)
- 2011 – “Optimizing PET-CT Imaging for Diagnosing Cancer”, Morris Animal Foundation

- Veterinary Student Scholars Grant. D12MS-606
Supported a detailed evaluation and grading of clinical canine and feline positron emission tomography-computed tomography imaging to optimize diagnostic yield
Brundage, C., Kraft, S. (\$5,500)
- 2011 – “Establishment of a quantitative metabolic database for normal canine brains using fluorodeoxyglucose PET-CT”. Center for Companion Animal Studies, Colorado State University.
Evaluate fluorodeoxyglucose (FDG) uptake in normal canine brain
Brundage C., Kraft S., Tzipory L., Cudon P., (\$5,000)
- 2011 - Summer Research Exchange Scholar fellowship at the Royal (Dick) School of Veterinary Studies in Edinburgh Scotland, College of Veterinary Medicine and Biomedical Sciences, Colorado State University
Brundage, C. (\$10,000)
- 2009 - Human Health Graduate Fellowship, Institute of Arctic Biology, University of Alaska Fairbanks
Brundage, C. (\$40,000)

Scholarships and Awards

- 2017 – Outstanding Partner Award, College Themed Communities, University Housing Services, Cal Poly Pomona
- 2012- James Beckley DVM Academic Scholarship, College of Veterinary Medicine and Biomedical Sciences, Colorado State University
- 2012 - Jorgensen Laboratories Scholarship, College of Veterinary Medicine and Biomedical Sciences, Colorado State University
- 2011- James Beckley DVM Academic Scholarship, College of Veterinary Medicine and Biomedical Sciences, Colorado State University
- 2010 - Grad Student Special Achievement Award, Department of Biology and Wildlife, University of Alaska Fairbanks
- 2009 - PhD Graduate Academic Scholarship, Golden Key International Honor Society, University of Alaska Fairbanks
- 2008 - PhD Graduate Academic Scholarship, Golden Key International Honor Society, University of Alaska Fairbanks

Professional Research

- 2017 - Effect of Low-Level-Laser Therapy on Mouse Incision Healing.
Principal Investigator. Cal Poly Pomona ACUC Protocol 17.017
- 2017 - Evaluating swine skin sensitivity to tea tree oil (*Melaleuca alternifolia*).
Principal Investigator. Cal Poly Pomona ACUC Protocol 17.010
- 2017 - Swine classical and operant conditioning
Principal Investigator. Cal Poly Pomona ACUC Protocol 17.005
- 2016 - Use of oral trazodone hydrochloride for sedation and aggression management in rabbits
Principal Investigator. Cal Poly Pomona ACUC Protocol 17.002

Post-Doctoral Research

- Veterinary Teaching Hospital, Colorado State University, 2014 - 2015
Characterize the magnetic resonance imaging (MRI) appearance of commercial hemostatic agents employed during canine neurosurgery. Mentor: Dr. Rebecca Packer
- Veterinary Teaching Hospital, Colorado State University, 2010 - 2013

Quantify radiopharmaceutical uptake (in brain and specific tissue regions) using positron emission tomography- computed tomography (PET-CT) in canine and feline tissues. Mentor: Dr. Susan Kraft
Roslin Institute, University of Edinburgh, 2011
Optimize immunostaining of fibrillin-1 in canine tissue for use in canine mitral valve disease evaluation. Mentor: Dr. Brendan Corcoran

Graduate Research

Institute of Arctic Biology, University of Alaska Fairbanks, 2006 - 2010
Evaluate the developmental consequences of chronic and acute nicotine or ethanol exposure on neural networks associated with ventilatory control and breathing responses to central hypercapnia and hypoxia. Mentor: Dr. Barbara Taylor

Ancillary Research

College Veterinary Medicine & Biomedical Sciences, Colorado State University, 2015- 2016
Investigate the use of novel anti-oxidant treatment in canine neurologic disease.
Mentor: Dr. Rebecca Packer
Veterinary Teaching Hospital, Colorado State University, 2013
Monitor use of oral recuperation fluid in the recovery of canine Parvovirus patients
Mentor: Dr. David Twedt
Institute of Arctic Biology, University of Alaska Fairbanks, 2009 - 2010
Identification and characterization of Hantavirus in Alaskan rodent population
Mentor: Dr. Jonathan Runstadler
Alaska Department of Fish and Game, Juneau Alaska, 2008
Harbor seal capture and release, radiotelemetry and monitoring study
Mentor: Dr. Lori Quakenbush
Institute of Arctic Biology, University of Alaska Fairbanks, 2005-2006
Develop microdialysis probes for intracranial ground squirrel drug infusion
Mentor: Dr. Kelly Drew
Department of Biology and Wildlife, University of Alaska Fairbanks, 2006
Characterize development and selection criteria of female caribou antlers.
Mentor: Dr. Falk Huettmann
Alaska Department of Fish and Game, Fairbanks, Alaska, 2005
Sort and identify marine mammal stomach ingesta
Mentor: Dr. Lori Quakenbush
Department of Biology and Wildlife, Colorado State University, 2000 - 2001
Classify canine behavior and response to cognitive tests
Mentor: Dr. Jennie Willis

Professional Membership

American Veterinary Medical Association (2010 - present)
Greater Louisville Veterinary Medical Association (2015 - 2016)
Colorado Veterinary Medical Association (2010 - 2015)
Society for Neuroscience (2006 - 2010)
American Physiological Society (2006 - 2010)
Golden Key International Honor Society (2007 - 2015)

Teaching

AVS 473: Clinical Nutrition
Spring 2017, Cal Poly Pomona

- Half-course design & instruction
AVS 463: Undergraduate Seminar
Fall, Spring, Summer 2016-2017, Cal Poly Pomona
Full-course design & instruction
AVS 333: Canine and Feline Compendium
Winter 2017, Cal Poly Pomona
Full-course design & instruction
AVS 113: Animal Science II: Companion, exotic and laboratory animal science
Fall, Winter, Spring 2016-2017, Cal Poly Pomona
Full-course design & instruction
VB 205: Veterinary Physiology II
Summer 2016, St. Matthews School of Veterinary Medicine
Full-course design & instruction
VB 105: Veterinary Physiology I
Summer 2016, St. Matthews School of Veterinary Medicine
Full-course design & instruction
VM 619: Veterinary Neurobiology
Fall 2012, Colorado State University
Instruction Aide & Practical Evaluator
BIOL F310: Animal Physiology
Fall 2009, University of Alaska Fairbanks
Three Lectures
BIOL F112: Human Anatomy and Physiology
Spring 2006, University of Alaska Fairbanks
Laboratory Coordinator and Head Teaching Assistant
HLTH F114: Fundamentals of Anatomy and Physiology
Spring 2005, University of Alaska Fairbanks
Teaching Assistant
AY 231: Gross Anatomy- Domestic Animals
Spring 2001, Colorado State University
Teaching Assistant

Mentorship

- An Tran, UC Berkeley Undergraduate 2017-2018
Hailey Pontes, Citrus Community College Undergraduate 2017-2018
Catarina Benavides, CPP Undergraduate 2016-2017
Benjamin Clock, CPP Undergraduate 2016-2017
Marina Duvneck, CPP Undergraduate 2016-2017
Courtney Fukushima, CPP Undergraduate 2016-2017
Brianna Kelley, CPP Undergraduate 2016-2017
Kierra Kuhlman, CPP Undergraduate 2016-2017
Claire Kwon, CPP Undergraduate 2016-2017
Elizabeth Lindemann, CPP Undergraduate 2016-2017
Irene Ngo, CPP Undergraduate 2016-2017
Jenelle Pawluk, CPP Undergraduate 2016-2017
Alejandra Robles, CPP Undergraduate 2016-2017
Andrea Ticas, CPP Undergraduate 2016-2017
Amika Yamamoto, CPP Undergraduate 2016-2017
Carla Cartagena, UAF Undergraduate 2009 - 2010
Lisa McLane, UAF Undergraduate 2009 - 2010

Nick Bajada, UAF Undergraduate 2008 - 2010
Tiffany Chen, High School student 2009
Carla Nelson, UAF Undergraduate 2009
Emily Potter, UAF Undergraduate 2009
Hailey Chacon, High School student 2007 - 2008
Jessica Lamb, High School student 2006 - 2008, Undergraduate 2008 - 2009
Brittney Dykstra, UAF Undergraduate 2006 - 2007

Research Training

Lena Vayndorf, Postdoctoral trainee 2009 - 2010
Sheila Spader, Undergraduate 2009 - 2010
Spencer Audie, Graduate student 2007 - 2010
Kennan Jeannet, Undergraduate 2009
Liel Rubinsky, Postdoctoral trainee 2008 - 2009
Kimberly Iceman, Graduate student 2008
Brittany Davies, Graduate Student 2007 - 2008
Melanie Richter, Graduate student 2007

Service

University Fee Advisory Committee, Cal Poly Pomona
Academic Senate/Faculty Representative 2016-2017
Institutional Animal Care and Use Committee (IACUC), Global Medical Devices, Inc.
Voting member 2017
College of Agriculture Learning Measurement (CALM) committee, Cal Poly Pomona
Animal and Veterinary Sciences Representative 2016-2017
WASC Senior College and University Commission Working Group, Cal Poly Pomona
Faculty Member 2017
Faculty in Residence, University Housing Services, Cal Poly Pomona
Pilot Faculty Member 2017
Associate Vice President for Student Wellbeing Search Committee, Cal Poly Pomona
Academic Senate/Faculty Representative 2017
Academic Master Plan Sub-Committee, Cal Poly Pomona
Faculty Member 2016-2017
Associate Vice President, Dean of Students Search Committee, Cal Poly Pomona
Academic Senate/Faculty Representative 2017
Pre-Veterinary Club, Cal Poly Pomona
Faculty Advisor 2016-2017
Veterinary Curriculum Committee, Colorado State University
Student Representative, 2010 - 2012
VetText (Book Store) Board of Directors, Colorado State University
Class Representative, 2010 - 2012
DVM Student Ambassador Program, Colorado State University
Program Coordinator, 2011 - 2012
Veterinary student tutoring program, Colorado State University
Tutor, 2010 - 2012
Pet Hospice Program, Colorado State University
Volunteer, 2010 - 2012
Hill's Pet Nutrition, Colorado State University
Student Representative, 2011 - 2012
National Veterinary Associates (NVA), Colorado State University

Student Representative, 2011 - 2012
Biology Graduate Student Association, University of Alaska Fairbanks
President, 2008 - 2009
Golden Key International Honor Society, University of Alaska Fairbanks
President, 2009 - 2010
President elect, 2008 - 2009
University of Alaska Physiology Seminar Series, University of Alaska Fairbanks
Coordinator, 2006 - 2007
University Master Planning Committee, University of Alaska Fairbanks
Graduate Student Representative, 2006 - 2008
Monfort Lecture Series (major dignitary lecture series) Colorado State University
Campus Activities Representative, 2004-2005
Bridges to the Future (major dignitary lecture series) Colorado State University
Campus Activities Representative, 2002-2004
Campus Activities
Director of Campus Outreach, 2003-2004
Ram Leadership Team Mentor, 2000-2004
Programming Board President, 2002-2003
President's Leadership Program Member, 2002-2003
Student Organizations Awards and Recognition Program
Coordinator and program developer, 2002-2003
University Curriculum Committee
Student Representative, 2000-2001
Residence Life
Resident Assistant, 2002-2003
Residence Hall Association President, 2000-2001
National Residence Hall Honorary member, 1999-2003

Manuscripts

1. **Brundage CM**, Jones MD, Packer RA. 2016. MRI Appearance of Five Hemostatic Agents Used in Neurosurgery and Review of their Clinical Application. *Veterinary Surgery*. Nov; 45(8): 996-1004
2. Taylor BE, **Brundage CM**, McLane LH. 2013. Chronic nicotine and ethanol both disrupt central ventilatory responses to hypoxia in bullfrog tadpoles. *Respiratory Physiology and Neurobiology*. Jul; 187(3): 234-43
3. Taylor BE, **Brundage CM**. 2013. Chronic, but not acute ethanol exposure during development impairs central hypercapnic drive in bullfrog tadpoles. *Respiratory Physiology and Neurobiology*. Feb; 185(3): 533-42
4. Valdés-Martinez A, Kraft SL, **Brundage CM**, Arceneaux BK, Stewart JA, Gibbons DS. 2012. Assessment of blood pool, soft tissue and skeletal uptake of ¹⁸F- NaF with positron emission tomography-computed tomography in four clinically normal dogs. *American Journal of Veterinary Research*. Oct; 73(10): 1589-95
5. **Brundage CM**, Taylor BE. 2010. Neuroplasticity of the central hypercapnic ventilatory response: Teratogen-induced impairment and subsequent recovery during development. *Developmental Neurobiology*. Sep; 70(10): 726-35
6. **Brundage CM**, Cartagena CM, Potter EA, Taylor BE. 2010. Nicotine elicits a developmentally dependent depression in bullfrog neuroventilatory response to CO₂. *Respiratory Physiology and Neurobiology*. March; 170(3): 226-235

7. **Brundage CM**, Nelson CA, Taylor BE. 2010. Cholinergic sensitivity of the developing bullfrog (*Rana catesbiana*) does not explain early vulnerability to chronic nicotine exposure. *Advances in Experimental Medicine and Biology* 669: 103-107
8. Davies BD, **Brundage CM**, Taylor BE. 2009. Lung respiratory rhythm and pattern generation in the bullfrog: Role of neurokinin-1 and mu-opioid receptors. *Journal of Comparative Physiology B*. July; 179(5): 579-92
9. **Brundage CM**, Taylor BE. 2009. Timing and duration of developmental nicotine exposure contribute to attenuation of the tadpole hypercapnic neuroventilatory response. *Developmental Neurobiology*. June; 69(7): 451-61

Accepted Abstracts

1. Pontes H, Tran A, **Brundage CM**. 2017. Commercial tri-axial accelerometry: An economic innovation for monitoring animal activity. 30th Annual CSU Biotechnology Symposium.
2. Kuhlman KC, Fukushima CM, **Brundage CM**. 2017. Trazodone HCl provides sedation and improves handling in rabbits (*Oryctolagus cuniculus*). 30th Annual CSU Biotechnology Symposium.
3. Pontes H, **Brundage CM**. 2017. Classifying *Ovis aries* behavior with a tri-axial accelerometer. 3rd Annual Creative Activities and Research Symposium. Bio & AG Science #2.
4. Tran A, **Brundage CM**. 2017. Interpreting accelerometry data: Assessing the limitations of utilizing a “FitBark” device in animal science research. 3rd Annual Creative Activities and Research Symposium. Bio & AG Science #3.
5. Ngo IM, **Brundage CM**. 2017. Comparing the gestation length and birth size of Cal Poly Pomona Arabian foals (2012 vs. 2017). 3rd Annual Creative Activities and Research Symposium. Bio & AG Science #1.
6. Fukushima CM, Kuhlman KC, Tessler C, Jin Y, Alderson J, **Brundage CM**. 2017. Trazadone hydrochloride improves laboratory rabbit handling. 5th Cal Poly Pomona Student Research, Scholarship & Creative Activities Conference. UL #2907
7. Yamamoto A, Kuhlman KC, Fukushima CM, Tessler C, Jin Y, Alderson J, **Brundage CM**. 2017. Perceptions of rabbit behavior during handling varies with veterinary experience. 5th Cal Poly Pomona Student Research, Scholarship & Creative Activities Conference. UM #230
8. Kuhlman KC, Fukushima CM, Alderson JC, Tessler CA, **Brundage CM**. 2016. Trazodone hydrochloride administration to mitigate laboratory rabbit (*Oryctolagus cuniculus*) aggression. Southern California Conferences for Undergraduate Research. HUB 302-#75
9. Venn E, Sullivan S, Deogracias M, Osekavage K, **Brundage C**, Boscan P, Twedt D. 2013. The effects of an oral recuperation fluid on the clinical recovery of dogs with parvoviral gastroenteritis. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day
10. **Brundage CM**, Whalen RL, Arceneaux BK, Stewart JA, Kraft SL. 2012. Normal canine brain glucose uptake and distribution using FDG-PET-CT. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day
11. **Brundage CM**, Randall E, Arceneaux BK, Stewart JA, Kraft SL. 2012. CT iodine contrast does not alter diagnostic sensitivity of tumor glucose uptake for FDG PET-CT. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day
12. **Brundage CM**, Lu C, Davis M, Summers K, Corcoran BM. 2012. Optimizing immunostaining of fibrillin-1 in canine tissue: Implications for quantifying changes in

- canine mitral valve disease. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day
13. **Brundage CM**. 2010. Neuroplasticity and neurotoxicology: Central breathing control following developmental nicotine or ethanol exposure. University of Alaska Fairbanks. PhD Dissertation Abstract
 14. Bajada NB, **Brundage CM**, Taylor BE. 2010. The bullfrog neuroventilatory response to hypercapnia is unaffected by cannabinergic potentiation. *FASEB Journal*, 24: 1026.3
 15. Cartagena CM, **Brundage CM**, Taylor BE. 2010. Insight on the development of neuroventilatory GABA-mediated inhibition in bullfrog tadpoles. *FASEB Journal*, 24: 613.8
 16. McLane LH, **Brundage CM**, Taylor BE. 2010. Chronic ethanol exposure disrupts neuroventilation and responses to hypoxia in bullfrog tadpoles. *FASEB Journal*, 24: 613.7
 17. **Brundage CM**, Taylor BE. 2009. Neuroventilatory impairments following developmental nicotine or ethanol exposure. University of Alaska Biology Graduate Student Research Symposium
 18. **Brundage CM**, Rubinsky L, Bickler PE, Taylor BE. 2009. Central CO₂ sensitive regions develop with bullfrog ontogeny. *Society for Neuroscience 2009*: 867.10
 19. **Brundage CM**, Potter EA, Taylor BE. 2009. Nicotine's disruption of the hypercapnic response increases with development. *Society for Neuroscience 2009*: 867.9
 20. Audie SD, **Brundage CM**, Taylor BE. 2009. The role of nicotinic acetylcholine receptors in the consequences of acute nicotine exposure on central neuroventilatory pattern. *Society for Neuroscience 2009*: 867.6
 21. **Brundage CM**, Harris MB, Taylor BE. 2009. Leaping into neurophysiology: The bullfrog brainstem model. *Society for Neuroscience 2009*: 21.5
 22. **Brundage CM**, Rubinsky L, Wilson RJA, Bickler PE, Taylor BE. 2009. Ventral brainstem near the vagal nerve is important in amphibian ventilatory drive. *Journal of Physiological Sciences* 59, Suppl. 1: P2PM-2-5
 23. Rubinsky L, **Brundage CM**, Taylor BE, Bickler PE. 2009. Identification of central respiratory CO₂ sensitive areas in the tadpole hindbrain using sulforhodamine 101. *Journal of Physiological Sciences* 59, Suppl. 1: P5AM-21-21
 24. **Brundage CM**, Audie SD, Taylor BE. 2009. The developing bullfrog: A model system for assessing the effect of neuroteratogens on respiratory control. 11th Oxford Conference on Modeling and Control of Breathing: PP-A04
 25. **Brundage CM**, Taylor BE. 2009. Persistent ethanol exposure impairs breathing regulation early in development. 5th Annual University of Alaska Biomedical Research Conference.
 26. Taylor BE, **Brundage CM**, Audie SD, Lamb JN. 2009. Developmental neurotoxicity impairs ventilatory control: Insight from an amphibian model. *FASEB Journal*, 23: 961.4
 27. **Brundage CM**, Iceman KE, Taylor BE. 2009. Ethanol affects the respiratory control network through more than GABA receptors. *FASEB Journal*, 23: 783.1
 28. **Brundage CM**. 2008. Nicotine exposure in the developing bullfrog: Influences on neuroventilatory responses to CO₂. University of Alaska Fairbanks. Master's Thesis Abstract
 29. **Brundage CM**, Taylor BE. 2008. Developmental exposure to nicotine causes duration-dependent and transient neuroventilatory deficits. *Society for Neuroscience 2008*: 382.18
 30. **Brundage CM**, Iceman KE, Taylor BE. 2008. Chronic ethanol exposure causes neuroventilatory desensitization to GABA. *Society for Neuroscience 2008*: 382.4
 31. Iceman KE, **Brundage CM**, Taylor BE. 2008. Chronic ethanol exposure causes neuroventilatory desensitization to acute ethanol. *Society for Neuroscience 2008*: 382.14

32. Audie SD, **Brundage CM**, Taylor BE. 2008. Nicotine and ethanol effects on the central hypercapnic response are independent of 5HT_{1A} influence. Society for Neuroscience 2008: 382.23
33. **Brundage CM**, Taylor BE. 2008. Chronic ethanol exposure causes a persistent deficit in the brainstem response to CO₂. 7th Conference of the Specialized Neuroscience Research Programs. Abstract: A02
34. Taylor BE, **Brundage CM**. 2008. Recovery from Developmental exposure to nicotine: Regaining brainstem response to CO₂. 7th Conference of the Specialized Neuroscience Research Programs. Abstract: E20
35. **Brundage CM**, Taylor BE. 2008. Chronic ethanol exposure causes a persistent developmental deficit in the neuroventilatory response to CO₂. AAAS Pacific Division 89th Annual Meeting. Abstract: 103
36. Dykstra BL, **Brundage CM**, Taylor BE. 2008. Mu-opioid and NK1 receptor immunofluorescence and involvement in the neuroventilation of bullfrogs. AAAS Pacific Division 89th Annual Meeting. Abstract: 102
37. **Brundage CM**, Taylor BE. 2008. Chronic and acute ethanol exposures differentially impair neuroventilation in developing bullfrogs. FASEB Journal, 22: 955.2
38. Dykstra (Davies) BL, **Brundage CM**, Taylor BE. 2008. μ -Opioid and NK1 receptor immunofluorescence and involvement in the neuroventilation of bullfrogs. FASEB Journal, 22: 755.10
39. Richter MM, **Brundage CM**, Taylor BE. 2008. Effect of thyrotropin-releasing hormone on neuroventilation in bullfrogs. FASEB Journal, 22: 954.8
40. **Brundage CM**, Taylor BE. 2007. Ventilatory consequences of chronic developmental exposure to ethanol vary between hypercapnic and hypoxic challenges and are influenced by the duration and timing of exposure. Society for Neuroscience 2007: 340.8
41. **Brundage CM**, Buehner JC, Taylor BE. 2007. Ventilatory consequences of acute and chronic exposure to nicotine. FASEB Journal, 21: 981.8
42. Buehner JC, **Brundage CM**, Taylor BE. 2007. Ontogeny of central O₂ chemoreception: the hypoxic response in the brainstem of developing frogs. FASEB Journal, 21: 981.4
43. **Brundage CM**, Buehner JC, Taylor BE. 2007. Ventilatory consequences of acute and chronic exposure to nicotine. 3rd Annual University of Alaska Biomedical Research Conference.
44. Dykstra BD, **Brundage CM**, Taylor BE. 2007. Immunocytochemical identification of the bullfrog ventilatory control centers: Support of the oscillator homology hypothesis. 3rd Annual University of Alaska Biomedical Research Conference.
45. Buehner JC, **Brundage CM**, Taylor BE. 2007. The hypoxic ventilatory response of the brainstem in the developing bullfrogs. 3rd Annual University of Alaska Biomedical Research Conference.
46. **Brundage CM**, Buehner JC, Taylor BE. 2006. Ventilatory consequences of acute and chronic exposure to nicotine. AAAS Arctic Science Conference Abstract: 23
47. Buehner JC, **Brundage CM**, Taylor BE. 2006. Ontogeny of central O₂ chemoreception: hypoxic response in the brainstem of developing bullfrogs. AAAS Arctic Science Conference Abstract: 24
48. **Brundage CM**, Williams J, Sekine S, Salinas M, Woldstad T, Holcomb D, Hauer B, Huettmann F. 2006. Evaluation of annual female caribou antler development: Parsimony, and symmetry from a unique long-term dataset. The Wildlife Society 13th Annual Conference. Abstract: 393

Presentations

1. **Brundage CM.** 2014. Bailey: Peritoneopericardial diaphragmatic hernia case review. Colorado State University College of Veterinary Medicine and Biomedical Sciences Grand Rounds. Slide presentation
2. **Brundage CM,** Randall E, Arceneaux BK, Stewart JA, Kraft SL. 2012. CT iodine contrast does not alter diagnostic sensitivity of tumor glucose uptake for FDG PET-CT. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day. Slide Presentation
3. **Brundage CM,** Whalen RL, Arceneaux BK, Stewart JA, Kraft SL. 2012. Normal canine brain glucose uptake and distribution using FDG-PET-CT. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day. Poster
4. **Brundage CM,** Lu C, Davis M, Summers K, Corcoran BM. 2012. Optimizing immunostaining of fibrillin-1 in canine tissue: Implications for quantifying changes in canine mitral valve disease. 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day. Poster
5. **Brundage CM.** 2010. Neuroplasticity and neurotoxicology: Central breathing control following developmental nicotine or ethanol exposure. PhD Dissertation. University of Alaska Fairbanks. Slide Presentation
6. **Brundage CM,** Rubinsky L, Bickler PE, Taylor BE. 2009. Central CO₂ sensitive regions develop with bullfrog ontogeny. Neuroscience 2009. Poster: 867.10
7. **Brundage CM,** Potter EA, Taylor BE. 2009. Nicotine's disruption of the hypercapnic response increases with development. Neuroscience 2009. Poster: 867.9
8. **Brundage CM,** Harris MB, Taylor BE. 2009. Leaping into neurophysiology: The bullfrog brainstem model. Neuroscience 2009. Poster: 21.5
9. **Brundage CM,** Rubinsky L, Wilson RJA, Bickler PE, Taylor BE. 2009. Ventral brainstem near the vagal nerve is important in amphibian ventilatory drive. 2009 IUPS 36th International Congress on Physiological Systems. Poster: P2PM-2-5
10. **Brundage CM,** Audie SD, Taylor BE. 2009. The developing bullfrog: A model system for assessing the effect of neuroteratogens on respiratory control. 11th Oxford Conference on Modeling and Control of Breathing. Poster: PP-A04
11. **Brundage CM,** Taylor BE. 2009. Persistent ethanol exposure impairs breathing regulation early in development. 5th Annual University of Alaska Biomedical Research Conference. Slide Presentation
12. **Brundage CM,** Iceman KE, Taylor BE. 2009. Ethanol affects the respiratory control network through more than GABA receptors. Experimental Biology 2009. Poster: 783.1
13. **Brundage CM.** 2008. Nicotine exposure in the developing bullfrog: Influences on neuroventilatory responses to CO₂. Master's Thesis. University of Alaska Fairbanks. Slide Presentation
14. **Brundage CM,** Taylor BE. 2008. Developmental exposure to nicotine causes duration-dependent and transient neuroventilatory deficits. Neuroscience 2008. Poster: 382.18
15. **Brundage CM,** Iceman KE, Taylor BE. 2008. Chronic ethanol exposure causes neuroventilatory desensitization to GABA. Neuroscience 2008. Poster: 382.4
16. **Brundage CM,** Taylor BE. 2008. Developmental exposure to nicotine causes duration-dependent and transient neuroventilatory deficits. Neuroscience 2008. Poster: 382.18
17. **Brundage CM,** Iceman KE, Taylor BE. 2008. Chronic ethanol exposure causes neuroventilatory desensitization to GABA. Neuroscience 2008. Poster: 382.4
18. **Brundage CM,** Taylor BE. 2008. Chronic ethanol exposure causes a persistent deficit in the brainstem response to CO₂. 7th Conference of the Specialized Neuroscience Research Programs. Poster: A02

19. **Brundage CM**, Taylor BE. 2008. Chronic ethanol exposure causes a persistent developmental deficit in the neuroventilatory response to CO₂. AAAS Pacific Division 89th Annual Meeting. Slide Presentation: 103
20. **Brundage CM**. 2008. Nicotine exposure in the developing bullfrog: Influences on neuroventilatory responses to CO₂. Master's Thesis Presentation. University of Alaska Fairbanks
21. **Brundage CM**, Taylor BE. 2008. Chronic and acute ethanol exposures differentially impair neuroventilation in developing bullfrogs. Experimental Biology 2008. Poster: 955.2
22. **Brundage CM**. 2007. Cord's exciting walk down neuroventilatory lane. BioBites: University of Alaska Fairbanks graduate student seminar series Lecture
23. **Brundage CM**, Taylor BE. 2007. Ventilatory consequences of chronic developmental exposure to ethanol vary between hypercapnic and hypoxic challenges and are influenced by the duration and timing of exposure. Neuroscience 2007. Slide Presentation: 340.8
24. **Brundage CM**, Taylor BE. 2007. Ventilatory consequences of chronic developmental exposure to ethanol vary between hypercapnic and hypoxic challenges and are influenced by the duration and timing of exposure. University of Alaska, Physiology/Neuroscience seminar. Slide Presentation.
25. **Brundage CM**, Buehner JC, Taylor BE. 2007. Ventilatory consequences of acute and chronic exposure to nicotine. Experimental Biology 2007. Poster # A498
26. **Brundage CM**, Buehner JC, Taylor BE. 2007. Ventilatory consequences of acute and chronic exposure to nicotine. 3rd Annual University of Alaska Biomedical Research Conference. Slide Presentation: 43
27. **Brundage CM**, Buehner JC, Taylor BE. 2006. Ventilatory consequences of acute and chronic exposure to nicotine. AAAS Arctic Science Conference Poster # 23
28. **Brundage CM**, Buehner JC, Taylor BE. 2006. Ventilatory consequences of acute and chronic exposure to nicotine. University of Alaska, Physiology/Neuroscience seminar. Slide Presentation.
29. **Brundage CM**, Williams J, Sekine S, Salinas M, Woldstad T, Holcomb D, Hauer B, Huettmann F. 2006. Evaluation of annual female caribou antler development: Parsimony, and symmetry from a unique long-term dataset. The Wildlife Society 13th Annual Conference. Poster: 86

Conferences Attended

- March 5 - 9, 2017: 89th Annual Western Veterinary Conference, Mandalay Bay, Las Vegas, NV
- May 30 - June 2, 2012: 2012 American College of Veterinary Internal Medicine Forum, Ernest N. Morial Convention Center, New Orleans, LA
- May 15 - 18, 2012: 2012 American Animal Hospital Association Yearly Conference, Colorado Convention Center, Denver, CO
- January 28, 2012: 13th Annual College of Veterinary Medicine and Biomedical Sciences Research Day, Colorado State University, Fort Collins CO
- June 15 - 18, 2011: 2011 American College of Veterinary Internal Medicine Forum, Colorado Convention Center, Denver, CO
- March 5, 2011: 12th Annual College of Veterinary Medicine and Biomedical Sciences Research Day, Colorado State University, Fort Collins CO
- September 23 - 26, 2010: Colorado Veterinary Medical Association Convention 2010, Embassy Suites, Loveland, CO
- March 29 - 30, 2010: University of Alaska Biology Graduate Student Research Symposium. University of Alaska Fairbanks, Fairbanks, AK

- October 17 - 21, 2009: Neuroscience 2009, McCormick Place Convention Center, Chicago IL
- July 27 - August 1, 2009: 36th International Congress of Physiological Sciences, Kyoto International Conference Center, Kyoto, Japan
- July 24 - 26, 2009: 11th Oxford Conference on Modeling and Control of Breathing, Nara Prefectural New Public Hall, Nara City, Japan
- May 14 - 15, 2009: 5th Annual University of Alaska Biomedical Research Conference, University of Alaska Fairbanks, Fairbanks, AK
- April 18 - 22, 2009: Experimental Biology 2008, Ernest N. Morial Convention Center, New Orleans, LA
- November 15 - 19, 2008: Neuroscience 2008, Washington Convention Center, Washington DC
- August 19 - 22, 2008: 7th Conference of the Specialized Neuroscience Research Programs (SNRPs), Wedgewood Resort, Fairbanks, AK
- June 15 - 20, 2008: AAAS Pacific Division 89th Annual Meeting, Hawaii Preparatory Academy, Waimea, HI
- April 5 - 9, 2007: Experimental Biology 2008, San Diego Convention Center, San Diego, CA
- November 3 - 7, 2007: Neuroscience 2007, San Diego Convention Center, San Diego, CA
- April 28 - May 2, 2007: Experimental Biology 2007, Washington Convention Center, Washington DC
- April 12 - 13, 2007: 3rd Annual University of Alaska Biomedical Research Conference, University of Alaska Fairbanks, Fairbanks, AK
- October 2 - 4, 2006: AAAS Arctic Science Conference 2006, Westmark Hotel, Fairbanks, AK
- May 30 - June 2, 2006: 6th Annual Conference of the Specialized Neuroscience Research Programs (SNRPs), Wedgewood Resort, Fairbanks, AK
- April 19 - 22, 2006: 13th International Symposium on Functional Medicine, Managing Biotransformation: The Metabolic, Genomic and Detoxification Balance Points, Tampa Marriott Waterside Resort, Tampa, FL