**LaTasha K. Crawford**

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School of Veterinary Medicine

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**Current Appointment**

Sept 2018 Assistant Professor, Dept. of Pathobiological Sciences, University of Wisconsin - Madison School of Veterinary Medicine, Madison, WI

**Education and Training**

Undergraduate

2000 Study Abroad Program (Arcadia Univ.), University of New South Wales, Sydney, NSW, Australia

2002 B.S., Molecular Biophysics and Biochemistry, Yale University, New Haven, CT

Doctoral

2010 Ph.D., Neuroscience, Thesis Mentor: Sheryl G. Beck, University of Pennsylvania, Philadelphia, PA

2011 V.M.D., University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA

Postdoctoral

2011-2015 Anatomic Pathology Residency, Clinical Mentors: Kathleen L. Gabrielson DVM, PhD, Joseph L. Mankowski, DVM, PhD, Johns Hopkins University, Baltimore, MD

2012-2015 Pathology Postdoctoral Fellowship, Research Mentors: David Ginty PhD, Michael J. Caterina MD, PhD, Johns Hopkins University, Baltimore, MD

2015-2018 Postdoctoral Fellowship, Mentor: Michael J. Caterina MD, PhD, Johns Hopkins University, Baltimore, MD

**Professional Experience**

June 1999 - Apr. 2000 Student Research Assistant, Advisor: Anthony Koleske, PhD, Dept of Molecular Biophysics &

Biochemistry, Yale University, New Haven, CT

May 2000 - June 2000 Summer Intern; Advisor: Heinz Arnheiter, MD.; Mammalian Development Section, NINDS,

NIH Bethesda, MD

Jan. 2002 - Aug. 2002 Student Research Assistant Advisor: Kevin L. Behar, PhD, Dept of Molecular Biophysics & Biochemistry, Yale University, New Haven, CT

Sept. 2002 - Aug. 2003 Post-Baccalaureate Pre-IRTA Fellow Advisor: Heinz Arnheiter, MD, Mammalian Development Section, NINDS, NIH Bethesda, MD

**RESEARCH ACTIVITIES**

**Research Focus**

My career goal is to use a combination of comparative pathology and systems neuroscience to propel bladder pain research. My doctoral research on the serotonin system of the brainstem yielded experience in neurophysiology and neuron morphology that I have leveraged to the sensory circuits of the peripheral nervous system during my postdoctoral fellowship. This combination of experiences has made me adept in the use of a variety of genetic and pharmacologic tools to label, characterize, and manipulate neuronal subpopulations in combination with inducible mouse models of disease. I currently use these techniques to investigate precise molecular and anatomic changes that comprise distinct roles for subtypes of sensory neurons in bladder disease and other conditions that can affect bladder function, such as hindlimb nerve injury. My research also expands beyond experimental mouse models to study bladder pain and peripheral neuropathies in veterinary patients, animal models that may more closely recapitulate the complexities of human pain.

**PUBLICATIONS**:

**Original Research**

Jessica K. Lerch-Haner, Dargan Frierson, **LaTasha K. Crawford**, Sheryl Beck, and Evan S. Deneris, 2008, "Serotonergic transcriptional programming determines maternal behavior and offspring survival,” Nat Neurosci. 2008 Sep;11(9):1001-3. PMID:19160496 PMCID: [PMC2679641](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2679641/) *I performed whole cell patch clamp electrophysiology experiments, data analysis, and contributed to editing of the manuscript.*

**LaTasha K. Crawford**, Caryne P. Craige, and Sheryl G. Beck, 2010, "Increased intrinsic excitability of lateral wing 5-HT neurons of the dorsal raphe: a mechanism for selective neuronal activation in stress circuits,” J Neurophysiol. 2010 May;103(5):2652-63. PMID:20237311; [PMC2867584](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2867584/).

**LaTasha K. Crawford**, Caryne P. Craige, and Sheryl G. Beck, 2011, "Glutamatergic input is selectively increased in dorsal raphe subfield 5-HT neurons: role of morphology, topography, and selective innervation" Eur J Neurosci. 2011 Dec;34(11):1794-806. PMID: 22098248; PMCID: [PMC3228412](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3228412/).

Yadav PN, Abbas AI, Farrell MS, Setola V, Sciaky N, Huang XP, Kroeze WK, **Crawford LK**, Piel DA, Keiser MJ, Irwin JJ, Shoichet BK, Deneris ES, Gingrich J, Beck SG, Roth BL, 2011, "The presynaptic component of the serotonergic system is required for clozapine's efficacy”, Neuropsychopharmacology. 2011 Feb;36(3):638-51. PMID: 21048700 PMCID: [PMC3055689](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055689/) *I performed whole cell patch clamp electrophysiology experiments and data analysis.*

**LaTasha K. Crawford**, Shumaia F. Rahman\*\*, and Sheryl G . Beck, 2013, "Social stress alters inhibitory synaptic input to distinct subpopulations of raphe serotonin neurons", ACS Chem Neurosci. 2013 Jan 16;4(1):200-9. PMID: 23336059 PMCID: [PMC3547472](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3547472/). \*\*Undergraduate Mentee

Richard R. Sim, Matthew C. Allender, **LaTasha K. Crawford**, Allison N. Wack, Kevin J. Murphy, Joseph L. Mankowski, and Ellen Bronson, Ranavirus epizootic in captive eastern box turtles (*Terrapene carolina carolina*) with concurrent herpesvirus and mycoplasma infection: management and monitoring, J Zoo Wildl Med. 2016 Mar 47(1): 256-270 [PMID: 27010285](https://www.ncbi.nlm.nih.gov/pubmed/?term=27010285) *I characterized the gross morphology and histopathology of the diseased individuals, scoring of the histopathology lesions, and contributed to writing and editing the manuscript.*

Wyler SC, Spencer WC, Green NH, Rood BD, **Crawford L**, Craige C, Gresch P, McMahon DG, Beck SG, Deneris E. Pet-1 switches transcriptional targets postnatally to regulate maturation of serotonin neuron excitability. J Neurosci. 2016 Feb 3;36(5): 1758-1774 PMID: 26843655 PMCID: [PMC4737783](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4737783/) *I performed many of the whole cell patch clamp electrophysiology experiments and data analysis.*

**LaTasha K. Crawford** and Michael J. Caterina. Functional Anatomy of the Sensory Nervous System: Updates from the Neuroscience Bench. Toxicologic Pathology. 2019 <https://doi.org/10.1177/0192623319869011> *Invited Review and Cover Photo for the issue.*

Turco AE, Thomas S, **Crawford LK**, Tang W, Peterson RE, Li L, Ricke WA, and Vezina CM In utero and lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure exacerbates urinary dysfunction in hormone treated C57Bl6/J mice through a non-malignant mechanism involving proteomic changes in the prostate that differ from those elicited by testosterone and estradiol. AmJournal of Clinical and Experimental Urology, In Press. *I conducted analysis of the prostate histopathology and generated images for one of the figures. I also assisted in writing and editing the manuscript.*

Emily Tran\*\* and **LaTasha K. Crawford** Revisiting PNS Plasticity: How Uninjured Sensory Afferents Promote Neuropathic Pain. In preparation.

**Case Reports**

Sasseville VG, Mankowski JL, Baldessari A, Harbison C, Laing S, Kaliyaperumal S, Matz-Rensing K, Miller AD, Schmidt LD, Kaplan-Kees J, Dick EJ Jr, Reader JR, Liu D, **Crawford LK**, Lane JH, Corner SM, Pardo ID, Evans MG, Murnane R, Terio KA, 2013, “Meeting Report: Emerging Respiratory Viral Infections and Nonhuman Primate Case Reports” Vet Pathol. 2013 Nov;50(6):1145-53. [PMID: 23839235](https://www.ncbi.nlm.nih.gov/pubmed/23839235). *I characterized the gross morphology and histopathology, wrote and edited the case report for one of the featured cases.*

**Book Chapters**

**LaTasha K. Crawford**, 2012. Vets and Pets: Domesticated Animals and the Veterinarians Who Care for Them. In: M. Alexander, P. Lenahan and A. Pavlov (eds.)*Cinemeducation: Using Film and Other Visual Media in Graduate and Medical Education, Volume 2*pp326-337 London: Radcliffe Publishing.

**Other Media (Lay Press)**

**Crawford, LaTasha K.** 2011, “Veterinary Medicine: Influencing Human and Animal Medicine” Bellwether Magazine: Vol. 1: No. 74, Article 13

**INTRAMURAL FUNDING**

**Current**

Companion Animal Fund Grant,

Crawford (PI) 04/01/19 – 03/31/2020 Univ. Wisconsin-Madison School of Veterinary Medicine

The Building Blocks of Companion Animal Pain: Comparative Molecular Studies of Sensory Neurons

Role: Principle Investigator

* Research funds and a stipend for a research project for a veterinary or other professional student. The project uses a comparative approach to evaluate potential biomarkers of pain across different species. Using postmortem samples obtained at the time of necropsy, evaluate the expression of key molecular markers in sensory neurons and sensory nerve terminals from veterinary patients with and without a history of pain.

**EXTRAMURAL FUNDING**

**Current**

Wisconsin Multidisciplinary K12 Urologic Research (KURe) Career Development Program, NIDDK, NIH

[K12DK100022] Bjorling, Bushman 11/01/2019 – 10/31/2024 University of Wisconsin-Madison

Peripheral mechanisms of somato-visceral crosstalk in bladder function and disease

Role: K12 Scholar

* Salary support, funds for career development activities, and research funds for translational studies in the field of bladder function and disease. The research project examines cell-specific changes in sensory neurons that contribute to co-morbid pain phenotypes in mouse models of cystitis and hind-limb nerve injury pain.

**Previous**

Postdoctoral Diversity Supplement, NIDCR, NIH

3R01DE022750-04S1 Caterina, Dong, Ginty 09/01/2015 – 06/30/2017 Johns Hopkins University

Neuronal subtype-specific plasticity in the acute to chronic pain transition

Role: Postdoctoral Trainee

* Full salary support and funds for career development activities for a postdoctoral fellow with a defined project under the umbrella of the parent grant. The research project used an intricate genetic approach paired with behavioral and histological techniques to assess the role of specific touch neuron subsets in a mouse model of neuropathic pain.

Training Grant, Office of the Director, NIH

T32 OD011089 Zink 06/01/2012 - 06/30/2015 Johns Hopkins University

Training Veterinarians for Careers in Biomedical Research

Role: Postdoctoral Trainee

* This training grant aims to train highly qualified veterinarians in state-of-the-art biomedical research in the Department of Molecular and Comparative Pathobiology at Johns Hopkins University. In addition to a wide range of experience acquired in anatomic pathology, trainees are also provided with salary support for post-doctoral research in their area of scientific interest, with research opportunities in the department and throughout the institution.

Predoctoral NRSA Grant, NIMH, NIH

F31 MH082611 Crawford 12/01/2007 - 11/30/2010 University of Pennsylvania

Influence of Chronic Stress on the Raphe Nucleus and Medial Prefrontal Cortex

Role: Principal Investigator

* Predoctoral NRSA grant to support thesis research. A multifaceted approach was used to investigate the link between a mouse model of anxiety and neurophysiological changes in serotonin circuitry. Divergent changes were identified in lateral wing serotonin neurons that have descending projections to sympathetic centers of the brainstem.

**RECOGNITION**

**Awards and Honors**

2002-2003 Post-Baccalaureate Intramural Research Training Award, NINDS, NIH

2003-2011 Pfizer Animal Health Veterinary Scholar (Full funding for veterinary medical education)

2004 Dean’s List, School of Veterinary Medicine, Univ. of Pennsylvania

2005 Dean’s List, School of Veterinary Medicine, Univ. of Pennsylvania

2007-2010 Pre-doctoral National Research Service Award (NRSA), NIMH, NIH

2009 Speaker Award (3rd Place), Phi Zeta Veterinary Student Research Day, School of Veterinary Medicine,

Univ. of Pennsylvania

2009 Women In Neuroscience Graduate Student Travel Award, Society for Neuroscience

2009 Abstract selected for top ten “Hot Topics” oral presentation, Basic Research "Hot Topics” Session, American College of Neuropsychopharmacology 48th Annual Meeting

2010 Poster Award (2nd Place), Phi Zeta Veterinary Student Research Day, School of Veterinary Medicine,

Univ. of Pennsylvania

2015 Institutional Nomination for Burroughs Wellcome Fund Career Award for Medical Scientists, Johns

Hopkins University

2016 C. L. Davis Foundation Student Scholarship Award

**Invited Talks and Workshops, National**

2004, ’05, ’06 Guest Speaker and Mentor, “Girls Explorations in Mathematics and Science” Summer Program,

Delaware State Univ., Dover, DE

2008 Speaker, Pfizer Animal Health Scholars Seminar, Pfizer Animal Health, Kalamazoo MI

2009 Speaker, Basic Research "Hot Topics” Session, 48th Annual Meeting of the American College of

Neuropsychopharmacology, Hollywood, FL

2012 Oral Presentation, Diagnostic Pathology, American College of Veterinary Pathology Annual Meeting,

Seattle, WA

2012 Oral Presentation, Primate Pathology Workshop, American College of Veterinary Pathology Annual

Meeting, Seattle, WA

2014 Invited Participant, Broadening the Representation of Academic Investigators in NeuroScience

(BRAINS) National Symposium, Univ. of Washington, Seattle, WA

2015 Invited Participant, NIH Future Research Leaders Conference, NIH, Bethesda, MD

2016 Invited Presentation, 11th Annual NIH Pain Consortium Symposium on Advances in Pain Research,

NIH, Bethesda, MD

2017 Invited Participant, Mentoring Institute for Neuroscience Didongversity Scholars (MINDS) Grant Writing

Workshop, Scottsdale, AZ

2017 Participant, Pain in Animals Workshop, National Institutes of Health, Bethesda, MD

2017 Invited Speaker, Dept. of Pathobiological Sciences Seminar, University of Wisconsin-Madison School of Veterinary Medicine, Madison, WI

2018 Invited Speaker, “Revamping Our Assays of Altered Sensation: Insight from the study of touch neurons in nerve injury models of pain”, Neurotoxicology group meeting, Food and Drug Administration (FDA), Silver Spring, MD

2018 Invited Participant, Cross-Cohort Leadership Symposium, Broadening the Representation of Academic Investigators in NeuroScience (BRAINS), Univ. of Washington, Seattle, WA

2019 Participant, NIH Workshop: A Critical Evaluation of Animal Pain Models, NINDS, NIH, Bethesda, MD

2019 Invited Guest Speaker, Univ. of Pennsylvania VMSTP 50th Anniversary Research Symposium

2019 Participant, Neurology in Urology Think Tank, NIDDK, NIH, Bethesda, MD

2019 Invited Participant, Collaborating for the Advancement of Interdisciplinary Research in Benign Urology (CAIRIBU) Conference, NIDDK, Kansas City, MO

**Invited Talks and Workshops, Institutional and Regional**

2008 Speaker, Neuroscience Graduate Group Chalk Talk Seminar, Univ. of Pennsylvania

2008 Speaker, MD/PhD and VMD/PhD Combined Degree Program Annual Retreat, Univ. of Pennsylvania

2009 Speaker, Neuroscience Chalk Talk Series, Children’s Hospital of Philadelphia

2009 Speaker, Work In Progress Seminar Series, Center for Neurobiology and Behavior, Univ. of Pennsylvania

2012,’13, ’15 Speaker, Comparative and Molecular Pathobiology Seminar Series, Johns Hopkins Univ.

2012 Case Presentation, Medicine Autopsy Conference, Johns Hopkins Hospital

2016 Speaker, Biological Chemistry Departmental Seminar Series, Johns Hopkins Univ.

2017 Speaker, One Medicine Seminar Series, Johns Hopkins Univ.

**CLINICAL ACTIVITIES**

**Clinical Focus**

I have built a foundation in comparative physiology and histopathology with the objective of developing expertise in the anatomic correlates of peripheral nerve dysfunction. Unique features of my clinical experience have included the gross and microscopic pathology of a wide range of laboratory animals along with rotations in human autopsy and human neuropathology services at the Johns Hopkins Hospital. This unique perspective has armed me with a critical eye to assess nuanced animal models of disease and to investigate disease mechanisms with a well-rounded understanding of physiology and pathology. This expertise complements my research goals, enabling both the diagnosis and mechanistic investigation of complex diseases. It likewise enables me to critically assess animal models of disease, extrapolating appropriate findings to understand disease in other species.

**Medical License**

2011-present Veterinary Medical License, State of Maryland

2018-present Veterinary Medical License, State of Wisconsin

**Board Certification**

2017-present Diplomate, American College of Veterinary Pathology, Anatomic Pathology

**Continuing Education**

2011-2015 Comparative Pathology Slide Conference, Johns Hopkins Univ., Baltimore, MD

2011 Mouse Pathobiology and Phenotyping Short Course; Johns Hopkins Univ., Baltimore, MD

2011-2012 Laboratory Animal and Pathology Integrated Problem Solving Course, Johns Hopkins Univ.

2012 Gross Pathology Review Course, C.L.Davis Foundation; Colorado State Univ., Ft. Collins, CO

2012 Mouse Pathobiology and Phenotyping Short Course; Johns Hopkins Univ., Baltimore, MD

2013 Pathology of Lab Animal Course, C.L.Davis Foundation; Walter Reed Army Institute of Research, Silver

Spring, MD

2015 National Toxicology Program Satellite Symposium; American College of Veterinary Pathology Annual

Meeting, Minneapolis, MN

2016 Descriptive Veterinary Pathology Course, C.L.Davis-Thompson Foundation; Auburn Univ., Auburn, AL

2017 North East Veterinary Pathology Conference, Joint Pathology Center; Gaithersburg, MD

2017 Pain in Animals Workshop, National Institutes of Health, Bethesda, MD

2018 Toxicologic Pathology of the Peripheral Nervous System Continuing Education Course, Society of

Toxicologic Pathology 37th Annual Symposium, Indianapolis, IN

2018 American College of Veterinary Pathology Annual Meeting, Washington, DC

2019 Skin and Mammary Tumors: Standardization and Simplification, C.L.Davis Foundation Pre-conference Course, San Antonio, TX

2019 American College of Veterinary Pathology Annual Meeting, San Antonio, TX

**EDUCATIONAL ACTIVITIES**

**Educational Focus**

I teach not just to deliver pertinent information, but also to help the learner to build a skillset that can be extrapolated to a broader learning environment. I have mentored undergraduate students in the laboratory, teaching them experimental design, data analysis techniques, critical reading skills, and oral presentation skills. In teaching veterinary residents, I help them learn not just the textbook features of a disease, but how the pathogenesis helps distinguish that disease from a range of differentials they might see amongst their cases. Building on oral presentation experience garnered through numerous research presentations, my lectures often use multimodal instruction that incorporates resources such as photomicrographs, illustration, or video so that I can engage different types of learners and put the day’s lesson into a broader context. Through these experiences I have honed an array of teaching skills that are adaptable to a wide range of settings.

**Teaching**

Classroom instruction

2007-2009 Teaching Assistant and Assistant Neuroanatomy Laboratory Instructor, “Intro to Neurosciences”, veterinary students, Univ. of Pennsylvania School of Veterinary Medicine

2008-2009 Volunteer Instructor, Saturday Science Education Academy, elementary school students, Saturday Science Education Academy, Philadelphia, PA

2009 Course Planning Committee and Instructor, Introductory Neuroscience, high school

students, Upward Bound Summer Program, Univ. of Pennsylvania

2012-2014 Facilitator, “Neuropathology Lab”, Basic Mechanisms of Disease, graduate students, Johns Hopkins

Univ. School of Medicine

2012-2014 Assistant Laboratory Instructor, Mouse Phenotyping Short Course, faculty, technicians, postdoctoral fellows, graduate students, Johns Hopkins Univ. School of Medicine.

2013-2016 Lecturer, “Acid/Base and Electrolytes”, “Hemostasis”, “Mouse Infectious Diseases”, “Pig

Pathology”, “Rat Strains, Models, and Peculiarities” in Laboratory Animal and Pathology Integrated Problem Solving course, residents in veterinary anatomic pathology and laboratory animal medicine, Johns Hopkins Univ. School of Medicine.

2015 Lecturer, “ The Nervous System”, Environmental Toxicologic Pathology course, graduate students, Johns Hopkins Univ. School of Medicine

2018-2019 Guest Lecturer, “Neuroimmunology Lecture”, Immunology, undergraduate and graduate students, Univ Wisconsin-Madison

2020 Lecturer, Neuropathology Lectures and Lab, Veterinary Systemic Pathology II, 2nd year veterinary students, Univ Wisconsin-Madison

Clinical Instruction

2011-2013 Pathology Service, veterinary students and first year veterinary anatomic pathology residents, 5-30 days per year, necropsy techniques and report writing, Johns Hopkins Univ.

2011-2018 Pathology Friday Slide Conference, veterinary anatomic pathology residents, 3-4 days per year, case-based histopathology and disease pathogenesis, Johns Hopkins Univ.

2016-2018 Systemic Pathology Study Session, veterinary anatomic pathology residents, 3-4 days per year, systems-based disease pathogenesis with correlation to gross and histologic findings, Johns Hopkins Univ.

2018-present Pathology Service, veterinary students and veterinary anatomic pathology residents, 6 weeks per year, necropsy techniques, histopathology, report writing, Univ Wisconsin-Madison SVM

2018-present Slide Conference Histopathology Rounds, veterinary anatomic pathology residents, 30 days per year, case-based histopathology and disease pathogenesis, Univ Wisconsin-Madison SVM

2019-present Neuropathology Case Consultation, veterinary neurology and anatomic pathology residents, 18 days per year, histopathology and veterinary neuropathology, Univ Wisconsin-Madison SVM

Teaching Workshops

2015 Participant, “Summer Teaching Camp” development course for faculty, residents, and postdoctoral

fellows, Johns Hopkins Institute for Excellence in Education

2018 Participant, Faculty Research Mentor Training Seminar, Univ Wisconsin-Madison

2019 Participant, MD Anderson Scientific Communication Advances Research Excellence (SCOARE) faculty workshop for mentorship in writing, Univ Wisconsin-Madison

**Laboratory Mentoring**

Mentorship of Undergraduate Researchers

2008-2011 Anna Raper, entered Masters program at Arcadia Univ.

Shumaia F. Rahman, entered D.O. program at Philadelphia College of Osteopathic Medicine

Monisha (Chakravarthy) Bhatia, entered Fulbright program

2014-2015 Tyler Bryant, undergraduate student at Johns Hopkins Univ.

2015-2016 Kinaya Hardie, undergraduate student at Johns Hopkins Univ.

2017 Nadine Joseph, undergraduate student at Johns Hopkins Univ.

2017-2018 Shreya Kumar, undergraduate student at Johns Hopkins Univ.

2017-present Aishwarya Pradeep, undergraduate student at Johns Hopkins Univ., recipient of the Provost

 Undergraduate Research Award

2018 Julie Gokhale, undergraduate student at Penn State Univ

2018 Gabriella Muwanga, post-baccalaureate trainee at Johns Hopkins Univ.

2019-present Morgan Mann, undergraduate student at Univ Wisconsin-Madison

2019-present Paige Fuller, undergraduate student at Univ Wisconsin-Madison

2019-present Milan Markovic, undergraduate student at Univ Wisconsin-Madison

2019-present Alejandro Martinez, undergraduate student at Univ Wisconsin-Madison

2019-present Calandra Chuback, veterinary student at Univ Wisconsin-Madison SVM

2019 Jillian Hickey, summer veterinary student at Univ Wisconsin-Madison SVM

Outreach

2013 Phil Ahn, shadowing veterinary technician, entered D.V.M. program

2015 Kate Lau, shadowing high school student

Training of Laboratory Technicians

2016 O. Lance Del Rosario, Alejandra M. Pablos, Shaomeng Tse, Kate M. Fischer; undergraduate students at Johns Hopkins Univ.

2019-present Amanda Novak, research assistant in my lab, Univ Wisconsin-Madison

**ORGANIZATIONAL ACTIVITIES**

**Academic Committees**

2003-2011 Secretary (2006-2008) and Member, Ernest E. Just Biomedical Society, Univ. of Pennsylvania

2007-2008 Speaker Selection Committee, MD/PhD and VMD/PhD Combined Degree Program, Univ. of Pennsylvania

2015 Invited Discussant and Record-Keeper, Neurosurgery Pain Research Institute Faculty Round-Table Discussion: Neuromodulation, Johns Hopkins Univ.

2016 Invited Discussant and Record-Keeper, Neurosurgery Pain Research Institute Faculty Round-Table Discussion: Neuro-Imaging, Johns Hopkins Univ.

2019-present Neuroscience Training Program Diversity Enhancement Committee, Univ Wisconsin-Madison

**National Professional Societies**

2005 - present Society for Neuroscience

2011 - present C.L. Davis-Thompson Foundation

2015 - present Society of Toxicologic Pathology

2017 - present American College of Veterinary Pathology

**OTHER RELATED EXPERIENCE**

**Posters and Oral Presentations, National Conferences**

“The Wings of the Raphe Contain Neurons With Both 5-HT and non-5-HT Neuron Characteristics” **LaTasha Crawford**, Adaure C. Akanwa, and Sheryl G. Beck. Merck/Merial Veterinary Scholar Program National Symposium, Athens, GA July 2005

“Using Transgenic Mice to Facilitate the Characterization of Serotonin Cells in the Murine Dorsal Raphe Nucleus” **LaTasha Crawford**, Adaure C. Akanwa, and Sheryl G. Beck. Merck/Merial Veterinary Scholar Program National Symposium, Baton Rouge, LA Aug. 2006

“Estradiol reduces oxytocin immunoreactivity in fibers lateral to the ventromedial nucleus of the hypothalamus (VMH).” Griffin, G.D., **Crawford, L.K.,** and Flanagan-Cato, L.M. Endocrine Society’s 89th Annual Meeting, Toronto, Canada June 2007

“Repeated Exposure to Social Defeat Produces Anxiety-Like Behavior in the Elevated Plus-Maze” **LaTasha Crawford** and Sheryl G. Beck. Merck-Merial-NIH Conference, Veterinarians in Biomedical Research: Building Capacity, Bethesda, MD Aug. 2007

“Auditory Exposure to Social Defeat May Increase the Anxiety-Like Behavior of Control Mice” **LaTasha K. Crawford** and Sheryl G. Beck. Society for Neuroscience Annual Neuroscience Meeting, San Diego, CA Nov. 2007

“The Chronic Social Defeat Model of Anxiety Induces an Array of Behavioral and Visceral Changes in the Mouse” **LaTasha K. Crawford** , Sheryl G. Beck. Merck-Merial-NIH Veterinary Scholars Symposium, East Lansing, MI Aug. 2008

“Murine Serotonin Neurons Have Distinct Membrane Properties: Implications for the Neural Circuitry Mediating Stress.” **LaTasha K. Crawford** and Sheryl G. Beck. Society for Neuroscience Annual Neuroscience Meeting, Washington, DC Nov. 2008

“Does Losing 5-HT Alter 5-HT Neuron Properties? Whole-cell Recordings from the Dorsal Raphe of Pet-1 Knockout Mice.” Sheryl G. Beck, **LaTasha K. Crawford**, Kathy C Krueger, Evan S. Deneris. Society for Neuroscience Annual Neuroscience Meeting, Washington, DC Nov. 2008

“Chronic social stress differentially alters inhibitory synaptic input to subpopulations of dorsal raphe 5-HT neurons.” **LaTasha K. Crawford** and Sheryl G. Beck. Society for Neuroscience Annual Neuroscience Meeting, Chicago, IL Oct. 2009

“Towards an Understanding of the Pathophysiology of Anxiety: Social Stress Alters the Inhibitory Input to Serotonin Neurons.” **LaTasha K. Crawford** and Sheryl G. Beck. 48th American College of Neuropsychopharmacology Annual Meeting Dec. 2009 (Abstract award: Top 10 selected for “Hot Topics” oral presentation).

 “Increased glutamatergic input to lateral wing 5-HT neurons is partially explained by unique morphology.” **LaTasha K. Crawford**, Caryne P. Craige, and Sheryl G. Beck. Society for Neuroscience Annual Neuroscience Meeting, San Diego, CA Oct. 2010

“Glutamatergic regulation of raphe neurons is dependent on the activity of presynaptic inputs and the unique morphology of lateral wing 5-HT neurons.” **LaTasha K. Crawford**, Caryne P. Craige, and Sheryl G. Beck. 49th American College of Neuropsychopharmacology Annual Meeting Dec. 2010

“Lesions associated with ranavirus infection in a captive population of eastern box turtles (Terrapene carolinia carolina) from the Maryland Zoo in Baltimore.” **L.K. Crawford**, R.R. Sim, A.N. Wack, E. Bronson, J.L .Mankowski, R.J. Montali. American College of Veterinary Pathology Annual Meeting Dec. 2012

“Exploring genetic and pharmacological tools for the remote control of touch neurons” **LaTasha K. Crawford** , David D. Ginty, Michael J. Caterina. Merck-Merial-NIH Veterinary Scholars Symposium, Ithaca, NY Aug. 2014

 “Probing The Role Of Low-Threshold Mechanoreceptors In The Pathophysiology Of Pain” **L.K. Crawford**, X. Dong, D. D. Ginty, M. J. Caterina. American College of Veterinary Pathology/American Society of Veterinary Clinical Pathology/Society of Toxicologic Pathology (ACVP/ASVCP/STP) Combined Annual Meeting, Minneapolis, MN Oct 2015

 “Nerve injury induces distinct changes in central terminals among nociceptor and mechanoreceptor subpopulations” **L. K. Crawford**, S. Jeon, D. Chang, D. D. Ginty, M. J. Caterina; Society for Neuroscience Annual Neuroscience Meeting, Washington, DC. Nov 2017

**Local Presentations**

2007 School of Veterinary Medicine Student Research Day, Univ. of Pennsylvania; Poster Presentation

2007 Institute of Neurological Sciences Annual Retreat, Univ. of Pennsylvania; Poster Presentation

2008 Annual Meeting, Philadelphia Chapter of the Society for Neuroscience; Poster Presentation

2008 Research Poster Day, Children’s Hospital of Philadelphia; Poster Presentation

2009 School of Veterinary Medicine Student Research Day, Univ. of Pennsylvania; Poster Presentation

2009 Institute of Neurological Sciences Annual Retreat, Univ. of Pennsylvania; Poster Presentation

2010 Comparative Biomedical Scientist Training Program Symposium, NIH; Poster Presentation

2012 Dept. of Molecular and Comparative Pathobiology Year In Review, Johns Hopkins; Poster Presentation

2016 Excellence in Diversity Symposium, Johns Hopkins; Poster Presentation

**Community Service**

2004-2006 Co-Head, Class of 2007 Note Service, Univ. of Pennsylvania School of Veterinary Medicine

2005 Volunteer Clinician, Philadelphia Animal Care and Control Association, Philadelphia, PA

(includes surgery and anesthesia experience)

2005 Volunteer Clinician, Rural Area Veterinary Services, U.S. Humane Society, Nez Perce, ID

(includes surgery and anesthesia experience)

2013-2016 Volunteer Manager (2014-2016), Head of Fundraising (2013-2015), and Head of the Event Organizing Committee (2014-2015) for a local running club

2015-2018 Peer Mentor, Diverse Women in Basic Science Monthly Meetings, Johns Hopkins Univ.