

**Katelyn E. Sadler, PhD**  
Curriculum Vitae  
Assistant Professor  
University of Texas at Dallas  
Department of Neuroscience, Center for Advanced Pain Studies  
[www.sadlerlab.com](http://www.sadlerlab.com)  
September 1, 2026

**Educational History:**

Doctor of Philosophy, November 2016, Duquesne University, Pittsburgh, PA, Biological Sciences  
*"Nociceptive Processing in the Central Nucleus of the Amygdala"* dissertation advised by Dr. Benedict Kolber

Bachelor of Science, April 2011, University of Pittsburgh, Greensburg, PA, Biological Sciences

**Employment History:**

Assistant Professor, January 2023 – present, University of Texas at Dallas, Richardson, TX

Postdoctoral Fellow, January 2017 – December 2022, Lab of Dr. Cheryl Stucky, Medical College of Wisconsin, Milwaukee, WI

Graduate Research Assistant, August 2014 – December 2016, Duquesne University, Pittsburgh, PA

Graduate Teaching Assistant, August 2011 – July 2014, Duquesne University, Pittsburgh, PA

**Professional recognitions and honors:**

2024 Award in Pain Scholar, Rita Allen Foundation  
2023 Searles Scholar Program Nominee, UT Dallas  
2022 Travel Award, US Association for the Study of Pain  
2021 K99/R00 Career Transition Award, National Heart Lung and Blood Institute  
2020 Warren Alpert Distinguished Scholar Nominee, Medical College of Wisconsin  
2019 Edward J Lennon MD Award for Outstanding Woman Postdoctoral Researcher, Medical College of Wisconsin  
2019 Travel Award, Medical College of Wisconsin Office of Postdoctoral Affairs  
2018 Excellence in Science Award, Medical College of Wisconsin Office of Postdoctoral Affairs  
2018 Poster Award Winner, Medical College of Wisconsin 28<sup>th</sup> Annual Research Day  
2018 NINDS Ruth L. Kirchstein NRSA for Training of Postdoctoral Fellows recipient, National Institute of Neurological Diseases and Stroke  
2018 Young Investigator Travel Award, American Pain Society  
2017 Distinguished Dissertation Award, Duquesne University  
2017 Max Mitchell Young Investigator Award Finalist, 12<sup>th</sup> Annual NIH Pain Consortium Symposium  
2016 Young Alumni Leadership Award, University of Pittsburgh at Greensburg  
2016 Young Investigator Travel Award, American Pain Society  
2016 New Frontiers of Pain Research Travel Award, University of Alabama at Birmingham  
2016 Best Presentation, Clinical and Basic Science Data Blitz, 35<sup>th</sup> Annual American Pain Society Meeting  
2016 Outstanding Graduate Student Award, Duquesne University  
2016 Advanced Certificate of University Teaching, Center for Teaching Excellence, Duquesne University  
2015 Bayer School for Natural and Environmental Sciences Award for Graduate Research Excellence, Duquesne University  
2014 Ruth L. Kirchstein NRSA Predoctoral Fellowship recipient, National Institute of Diabetes and Digestive and Kidney Diseases  
2011 Senior of the Year, University of Pittsburgh at Greensburg  
2011 Dr. and Mrs. Fred T. Campana Scholarship, University of Pittsburgh at Greensburg

**Professional memberships:**

American Society of Hematology (ASH), 2026  
 US Association for the Study of Pain (USASP), 2020 – present  
 International Association for the Study of Pain (IASP), 2018 – 2023, 2025  
 American Pain Society, 2014 – 2019  
 Society for Neuroscience, 2012 – 2021

**Achievements in original investigation:****Journal special issues edited:**

*Neurobiology of Pain*, Endometriosis Pain (in press)

**Articles in refereed journals:**

1. John JM, Manjarres Z, Zulkifly N, Plumb AN, Pratt ML, **Sadler KE** (2026). Male-specific analgesic effects of minocycline in sickle cell disease are mediated by microglia and the microbiome. *Pain* 167(7):1683-1695.
2. Lesnak JB, Schaub MK, Gomez K, Calderon Rivera A, Loya Lopez S, Stewart R, Jo S, Fujita A, Osorno T, Desai M, Natarajan K, Schackmuth MK, Mancilla Moreno M, Shiers S, Cervantes A, Funk G, Horton P, Vines E, Yousuf MS, **Sadler KE**, Bean BPE, Khanna R, Dussor G, Price TJ (2026). An improved preservation method for human dorsal root ganglion neurons enables wider access to human molecular pain neuroscience. *Cell Reports Methods* 6(5): 101412.
3. Brandow AM, Atkinson SA, Manjarres Z, Ehlers VL, Pratt ML, Mehta I, Mudunuri S, Kappagantu A, Shiers SI, Mazhar K, Simms M, Ahlendi S, Sheshadri A, Cervantes AM, Reese JC, Tavares-Ferreira D, Sankaranarayanan I, Schaub MK, Waltz TB, Hayward M, Rodríguez García DM, Dussor G, Salzman NH, Palmer KL, Stucky CL, Price TJ, **Sadler KE** (2025). Gut microbiota and metabolites drive chronic sickle cell disease pain in mice. *Cell Host & Microbe* 33(10): P1703-1714.
4. Pratt ML, Plumb AN, Manjrekar AR, Cardona LM, Chan C, John JM, **Sadler KE** (2025). Microbiome contributions to pain: a review of the preclinical literature. *Pain* 166(2): 262-281.
5. Mikesell AR, Isaeva E, Schulte ML, Menzel AD, Sriram A, Pahl MM, Shin SM, **Sadler KE**, Yu HE, Stucky CL (2024). Increased keratinocyte activity and Piezo1 signaling contribute to paclitaxel-induced mechanical hypersensitivity. *Science Translational Medicine* 16: eadn5629
4. Rodríguez García DM, Szabo A, Mikesell AR, Zorn SJ, Kemmo Tsafack U, Sriram A, Waltz TM, Enders JD, Mecca CM, Stucky CL, **Sadler KE** (2024). High-speed imaging of evoked rodent mechanical behaviors yields variable results that are not predictive of inflammatory injury. *Pain* 165(7): 1569-1582.
5. Ehlers VL, **Sadler KE**, Stucky CL (2023). Peripheral TRPV4 hypersensitivity contributes to chronic sickle cell disease pain. *Pain* 164(8): 1874-1886.
6. Mikesell AR, Isaeva O, Moehring F, **Sadler KE**, Menzel AD, Stucky CL (2022). Keratinocyte PIEZO1 modulates cutaneous mechanosensation. *eLife* 11:e65987.
7. **Sadler KE**, Mogil JS, Stucky CL (2022). Innovations and advances in modeling and measuring pain in animals. *Nature Reviews Neuroscience* 23:70-85.
8. Trask S, Mogil JS, Helmstetter FJ, Stucky CL, **Sadler KE** (2022). Contextual control of conditioned pain tolerance and endogenous analgesic systems *eLife* 11:e75283.
9. Waltz TB, Burand AJ, **Sadler KE**, Stucky CL (2021). Sensory-specific peripheral nerve pathology in a rat model of Fabry disease. *Neurobiology of Pain* 10: 100074.

10. **Sadler KE**, Moehring F, Shiers SI, Laskowski LJ, Mikesell AR, Plautz ZR, Brezinski AN, Mecca CM, Dussor G, Price TJ, McCorvy JD, Stucky CL (2021). Transient receptor potential canonical 5 (TRPC5) mediates inflammatory mechanical and spontaneous pain in mice. *Science Translational Medicine* 13: eabd7702.
11. **Sadler KE**, Moehring F, Stucky CL (2020). Keratinocytes contribute to normal cold and heat sensation. *eLife* 9: e58625.
12. **Sadler KE**, Lewis TR, Waltz TB, Besharse JC, and Stucky CL (2019). Peripheral nerve pathology in sickle cell disease mice. *Pain Reports* 4(4): e765.
13. **Sadler KE** and Stucky CL (2019). Neuronal transient receptor potential (TRP) channels and noxious sensory detection in sickle cell disease. *Neuroscience Letters* 694: 184-191.
14. **Sadler KE**, Langer SN, Menzel AD, Moehring F, Erb AN, Brandow AM, and Stucky CL (2019). Gabapentin alleviates chronic spontaneous pain and acute hypoxia-related pain in a mouse model of sickle cell disease. *British Journal of Haematology* 187(2): 246-260.
15. **Sadler KE**, Zappia KJ, Weyer AD, O'Hara C, Langer SN, Hillery CA, and Stucky CL (2018). Chemokine (c-c motif) receptor 2 mediates mechanical and cold hypersensitivity in sickle cell disease. *Pain* 159(8): 1652-1663.
16. **Sadler KE**, Gartland N, Cavanaugh JE, and Kolber BJ (2017). Central amygdala expression of metabotropic glutamate receptor 5 linked to age-dependent changes in pain sensitivity. *Neurobiol of Aging*. S0197-4580(17):30131-8.
17. **Sadler KE**, McQuaid NA, Cox AC, Behun MN, Trouten AM, and Kolber BJ (2017). Divergent functions of the left and right central amygdala in visceral nociception. *Pain*. 158(4): 747-759.
18. Wolz MJ, **Sadler KE**, Long CC, Brenner DS, Kim BS, Gereau RW IV, & Kolber BJ (2016). Post-inflammatory hyperpigmentation following human cold pain testing. *Pain Reports* 1: e569.
19. Long CC, **Sadler KE**, Kolber BJ. (2016) Hormonal and molecular effects of restraint stress on formalin-induced pain-like behavior in male and female mice. *Physiology and Behavior* 16: 278-285.
20. **Sadler KE** and Kolber BJ (2016). Urine trouble: Alterations in brain function associated with bladder pain. *Journal of Urology* 196(1): 24-32.
21. **Sadler KE**, Stratton JM, Kolber BJ (2014). Urinary bladder distension evoked visceromotor responses as a model for bladder pain. *Journal of Visual Experimentation*. (86), e51413.
22. **Sadler KE**, Stratton JM, DeBerry JJ, Kolber BJ (2013). Optimization of a pain model: effects of body temperature and anesthesia on bladder nociception in mice. *PLoS ONE* 8(11): e79617.
23. Crock LW, Kolber BJ, Morgan CD, **Sadler KE**, Vogt SK, Bruchas MR & Gereau RW IV (2012). Central amygdala mGluR5 in the modulation of visceral pain. *Journal of Neuroscience* 32(41): 14217-26.

#### Articles appearing as chapters in edited volumes:

1. **Sadler KE**, Patitucci TN and Stucky CL (2022). *Ex vivo* skin-teased fiber recordings from tibial nerve. In: Seal R (ed) *Contemporary Approaches to the Study of Pain: from Molecules to Neural Networks*, Springer Nature, New York.

#### Unrefereed publications (commentaries):

1. **Sadler KE** (2026) Lipids drive chronic sickle cell disease pain. *Blood* (in press).

2. Manjarres Z, Plumb AN, and **Sadler KE** (2025) Bug in the syndrome: using the gut microbiome to diagnose complex regional pain syndrome. *Anesthesiology* 143(1):20-21.
3. **Sadler KE** and Price TJ (2024) A humanized focus on sickle cell pain. *Blood* 143 (20): 2016-2017.
4. Moehring F and **Sadler KE** (2019) Female specific effects of CGRP suggest limited efficacy of new migraine treatments in males. *Journal of Neuroscience* 39(46): 9062-9064.
5. **Sadler KE** and Stucky CL (2019) Blocking COX-2 for sickle cell pain relief. *Blood* 133 (18): 1924-1925.

**Books/articles submitted for publication:** (note date of submission and to whom)

1. Paul BK, Kwiatkowski M, Zhantibiyeva F, Singh S, Nguyen C, Singari SVD, Perumal CD, Anandan I, Adke AP, **Sadler KE**, Carrasquillo Y, Neilan RM, Kolber BK. Predicting pain using a data-drive agent-based model of the bilateral central amygdala. Submitted to *PNAS* on April 20, 2026.
2. Wellhaven H, Lesnak JB, Lenz K, Andoko B, Oestreich A, Plumb AN, **Sadler KE**, Springer L, Brockert J, Dumlao D, Akk A, Wu X, Yan H, Zhang B, Messier S, Loeser R, June R, Atkinson J, Pham C, Price TJ, Guilak F, Collins C. Adipose-driven complement-lipid reprogramming controls nociceptive vulnerability in obesity-associated osteoarthritis. Submitted to *Science Translational Medicine* on March 19, 2026.
3. O'Brien JA, Lesnak JB, Sankaranarayanan I, Arendt-Tranholm A, Inturi N, Sadasivuni SS, Mydugolam H, **Sadler KE**, Price TJ, Ubogu EE. Peripheral nerve-targeting and pain-promoting transcriptomic signatures in early Guillain Barré syndrome. Updated on *bioRxiv* on June 25, 2026.
4. Gayluak NJ, Roy SS, Plumb AN, Mydugolam H, Manjarres Z, Ramos Freitas LE, Brandow AM, Burton MD, **Sadler KE**. Life-long hydroxyurea treatment decreases chronic pain in sickle cell disease mice. Uploaded to *bioRxiv* on August 30, 2025.
5. Pratt ML, Manjarres Z, **Sadler KE**. The vaginal microbiome drives endometriosis pain. Uploaded to *bioRxiv* on August 21, 2025.

**Invited talks/oral presentations at conferences:**

1. “The vaginal microbiome drives endometriosis pain”, part of the “Visceral Pain” session, May 2026, Pain Mechanisms and Therapeutics Conference, Verona, Italy
2. “Man! I Feel Like a Woman! Neuronal basis of uterine pain”, April 9, 2026, Pittsburgh Center for Pain Research (PCPR), University of Pittsburgh, Pittsburgh, PA
3. “Novel cellular targets for endometriosis pain”, November 7, 2025 USASP Abdominal and Pelvic Pain Special Interest Group Meeting, virtual
4. “Pain in the gut: navigating -omics options for microbiome studies”, November 3, 2025, USASP -Omics Special Interest Group Meeting, virtual
5. “Microbial and neuronal targets for sickle cell disease pain management”, October 30, 2025, Department of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA
6. “Hydroxyurea decreases chronic sickle cell disease pain by altering the gut microbiota and metabolites”, October 27, 2025, NIH U24 SCDPAIN Investigator Meeting, Bethesda, MD; *rescheduled due to government shutdown*

7. "Bugs in and out of the gut: Understanding the role of the microbiota in chronic, non-visceral pain", September 2025, 9<sup>th</sup> International Congress on Neuropathic Pain, Berlin, Germany
8. "Pain in the gut: targeting the gut microbiome for sickle cell disease pain management", August 2025, SCDPAIN Networking Meeting, Los Angeles, CA
9. "Microbiome targets for chronic pain management", April 2025, United States Association for the Study of Pain Annual Meeting, Chicago, IL
10. "Targeting the gut microbiome for chronic pain management", March 2025, Pain Research and Integrated Neuroscience Symposium, University of Florida, Gainesville, FL; *had to reschedule due to personal injury*
11. "Gut microbiome targets for chronic pain management", March 2025, Neuroscience Program, Michigan State University, East Lansing, MI; *had to reschedule due to personal injury*
12. "Gut microbiome targets for chronic pain management", February 2025, #Pain2025 Meeting, virtual
13. "Gut microbiome targets for chronic pain management", February 2025, Center for Clinical Pharmacology, Washington University in Saint Louis, Saint Louis, MO
14. "Gastrointestinal chemosensation drives chronic pain in sickle cell disease", January 2024, Mammalian Somatosensation: Mechanisms of Itch, Touch, Pain and Interoception in Health and Disease Keystone Symposium, Santa Fe, NM
15. "Effect of antibiotics on nociceptive circuits", September 2024, Rita Allen Foundation Scholars Symposium, Princeton, NJ
16. "Effect of antibiotics on nociceptive circuits", June 2024, The PNS and Pain Symposium, McGill University Alan Edwards Centre for Research on Pain, Montreal, Canada
17. "The gut microbiome and gastrointestinal chemosensation drive chronic sickle cell disease pain", May 2024, Pain Mechanisms and Therapeutics Conference, Verona, Italy
18. "Using mouse models to identify novel targets for chronic sickle cell disease pain management", April 2024, Pediatric Hematology-Oncology Division Grand Rounds, UT Southwestern, Dallas, TX
19. "Gastrointestinal chemosensation drives chronic sickle cell disease pain", February 2024, Neuroscience Graduate Program, University of Cincinnati, Cincinnati, OH
20. "Exploring relationships between the gut microbiome and chronic pain", February 2024, Center for Vital Longevity, University of Texas at Dallas, Dallas, TX
21. "Pain in the gut: how the microbiome and gastrointestinal chemosensation drive chronic pain in sickle cell disease", October 2023, Department of Biology, Texas Woman's University, Denton, TX
22. "Ascending gastrointestinal sensory circuits drive chronic sickle cell disease pain" October 2023, NIH Neural Mechanisms of Sickle Cell Pain workshop, virtual
23. "Amygdalar involvement in gut microbiome-related pain signaling", July 2023, Gordon Research Conference: Amygdala Function in Emotion, Cognition and Disease, Castelldefels, Spain
24. "Peripheral nerve dysfunction and pain in sickle cell disease", June 2023, Peripheral Nerve Society Meeting, Copenhagen, Denmark
25. "Pain in the gut: gastrointestinal chemosensation drives chronic pain in sickle cell disease", May 2023, Canadian Pain Society Annual Scientific Meeting, Banff, Canada

26. "Gastrointestinal chemosensation drives chronic pain: implications for sickle cell disease", April 2023, United States Association for the Study of Pain Annual Meeting, Durham, NC
27. "Sickle cell disease associated changes in the gut microbiome contribute to persistent pain" June 2022, International Behavioral Neuroscience Meeting, Glasgow, United Kingdom
28. "Identification of novel chronic pain targets using sickle cell disease mice" January 2022, Department of Neuroscience and Pharmacology, University of Iowa, virtual due to COVID-19 protocols
29. "Gut feelings: How the microbiome modulates chronic pain" December 2021, Department of Neuroscience, University of Texas at Dallas, Richardson, TX
30. "Identification of novel chronic pain targets using sickle cell disease mice", December 2021, Department of Biology, Penn State University, State College, PA
31. "Identification of novel chronic pain targets using sickle cell disease mice", October 2021, Department of Anesthesiology, University of Minnesota, Minneapolis, MN
32. "Identification of novel chronic pain targets using sickle cell disease mice", September 2021, Department of Anesthesia, Cincinnati Children's Hospital, Cincinnati, OH
33. "Identification of novel chronic pain targets using sickle cell disease mice" September 2021, Department of Pharmacology and Physiology, Saint Louis University, Saint Louis, MO
34. "Identification of novel chronic pain targets using sickle cell disease mice" August 2021, Department of Neuroscience, University of Texas at Dallas, Richardson, TX
35. "Leveraging transgenic sickle cell disease mice to identify novel pain targets" January 2021, Department of Anatomy and Cell Biology, University of Kansas Medical Center, virtual due to COVID-19 protocols
36. "TRPC5 mediates inflammatory mechanical pain" November 2020, #Pain2020 Meeting, virtual
37. "The role of keratinocytes in heat transduction, cold transduction, and mechanotransduction", August 2020, Pain Research Forum Webinar, virtual
38. "Mammalian keratinocytes detect and relay environmental cold signals", August 2019, Midwest Regional Pain Interest Group (MR PIG) Meeting, Kansas City, KS
39. "Translational models for investigation of non-opioid based pain therapies for sickle cell disease", April 2019, American Pain Society Annual Meeting, Milwaukee, WI
40. "Go with the (sometimes blocked) flow: circulating metabolites drive chronic sickle cell disease pain", June 2018, North American Pain School, Montebello, Canada
41. "Lipid signaling in sickle cell disease pain", May 2018, Pain Mechanisms and Therapeutics Conference, Taormina, Italy
42. "Chemokine receptor 2 mediates mechanical and cold hypersensitivity in sickle cell disease pain", October 2017, NIH Pain Consortium Symposium, Bethesda, MD
43. "Opposing roles of the left and right central amygdala in bladder pain modulation", April 2016, American Pain Society Annual Meeting, Austin, TX

**Conference poster abstracts:**

1. Cuervo DI, Rubinstein S, Pratt ML, Manjarres Z, **Sadler KE**, Lewter L. Mapping neuroplastic changes in the brain of mice with endometriosis, October 2026, SACNAS Annual Conference, Long Beach, CA.
2. Thatte M, Gayluak NJ, **Sadler KE**. Investigating butyrate as a potential non-opioid analgesic in sickle cell disease, July 2026, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX
3. Zulkifly N, Pratt ML, Manjarres Z, **Sadler KE**. Investigating anatomical specificity of DRG neuron sensitivity in a mouse model of endometriosis, July 2026, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX
4. Poshadlo KE, Plumb AN, Reeves M, Lesnak JB, Dussor G, **Sadler KE**. Investigating gastrointestinal sources of pain in a mouse model of medication overuse headache, July 2026, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX
5. Shasteen R, Manjarres M, **Sadler KE**. Exploring fertility cues in a mouse model of endometriosis, July 2026, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX
6. Karakkattil RE, Plumb AN, Manjarres Z, Gayluak N, **Sadler KE**. Examining the role of the gut microbiota in chemotherapy-associated pain, April 2026, National Conference on Undergraduate Research, Richmond, VA.
7. Pratt ML, Manjarres Z, **Sadler KE**. The vaginal microbiome dries pain in an endometriosis mouse model, March 2026, United States Association for the Study of Pain Annual Meeting, Philadelphia, PA
8. Gayluak NJ, Roy SS, Plumb AN, Mydugolam H, Manjarres Z, Ramos Freitas LE, Brandow AM, Burton MD, **Sadler KE**. Life-long hydroxyurea treatment decreases chronic pain in sickle cell disease mice by limiting TRPA1 sensitization in peripheral nociceptors, March 2026, United States Association for the Study of Pain Annual Meeting, Philadelphia, PA
9. Manjarres Z, **Sadler KE**. Gut microbiota derived signals drive sensory neuron activation and sustained pain in a mouse model of endometriosis, March 2026, United States Association for the Study of Pain Annual Meeting, Philadelphia, PA
10. Plumb AN, Karakkattil RE, Manjarres Z, Gayluak NJ, **Sadler KE**. Chemotherapy-induced changes in the gut microbiome drive peripheral neuropathy and pain, March 2026, United States Association for the Study of Pain Annual Meeting, Philadelphia, PA
11. Lesnak J, Schaub MK, Plumb AN, O'Brien J, Inturi N, Qavi Z, Healey R, Zhang N, Reeves M, Jamil W, Joseph K, Sankaranarayanan I, Mazhar K, Barry A, **Sadler KE**, Dussor G, Price TJ. Interferon gamma increases excitability of human DRG neurons and is secreted by DRG resident T cells, March 2026, United States Association for the Study of Pain Annual Meeting, Philadelphia, PA
12. Karakkattil RE, Plumb AN, Manjarres Z, Gayluak N, **Sadler KE**. Examining the role of the gut microbiota in chemotherapy-associated pain, November 2025, Annual Biomedical Research Conference for Minority Students 2025 Conference, San Antonio, TX. *Had to withdrawal accepted abstract due to personal conflict.*
13. Zulkifly N, Pratt ML, Manjarres Z, **Sadler KE**, Vaginal treatment with probiotic alleviates chronic pain in a mouse model of endometriosis, August 2025, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX
14. Karakkattil, Plumb AN, Manjarres Z, Gayluak N, **Sadler KE**. Examining the role of the gut microbiota in chemotherapy-associated pain, August 2025, UT Dallas Summer Platform for Undergraduate Research Symposium, Richardson, TX

15. Gayluak N, Roy S, Ramos Freitas L, Burton M, **Sadler KE**. Assessing the impact of long-term hydroxyurea treatment on chronic pain in Townes sickle cell disease mice, June 2025, 48<sup>th</sup> National Sickle Cell Disease Scientific Meeting
16. Gayluak N, Roy S, Ramos Freitas L, Burton M, **Sadler KE**. Assessing the impact of long-term hydroxyurea treatment on chronic pain in Townes sickle cell disease mice, May 2025, United States Association for the Study of Pain Annual Meeting, Chicago, IL
17. Pratt M, **Sadler KE**. Uterine-innervating neuron sensitization in a mouse model of endometriosis, May 2025, United States Association for the Study of Pain Annual Meeting, Chicago, IL
18. Plumb AN, Brandon JM, Lesnak J, Price TJ, **Sadler KE**. Acute effects of antibiotics on nocifensive behaviors and dorsal root ganglia neuronal activity, May 2025, United States Association for the Study of Pain Annual Meeting, Chicago, IL
19. **Sadler KE**, Atkinson S, Highland J, Steiner N, Rico JJ, Retherford D, Hankins JS, Khan H, Brignac M, Field J, Singh A, Salzman N, Brandow AM. Intestinal microbiome changes are associated with neuropathic pain in individuals with sickle cell disease, May 2025, United States Association for the Study of Pain Annual Meeting, Chicago, IL
20. Atkinson S, **Sadler KE**, Highland J, Steiner N, Rico JJ, Retherford D, Hankins J, Khan H, Brignac M, Field J, Singh A, Salzman N, Brandow AM. Individuals with sickle cell disease have decreased intestinal microbial diversity compared to healthy Black related and unrelated individuals without sickle cell disease, December 2024, American Society of Hematology Annual Meeting and Exposition, San Diego, CA
21. John JM, **Sadler KE**. Analgesic efficacy and mechanisms of minocycline in sickle cell disease pain, November 2024, Annual Biomedical Research Conference for Minority Students 2024 Conference, Pittsburgh, PA
22. John JM, **Sadler KE**. Analgesic efficacy and mechanisms of minocycline in sickle cell disease pain, August 2024, UTD Summer Platform for Undergraduate Research Symposium, Richardson, TX
23. Cho V, Brandon JM, **Sadler KE**. Examining the relationship between acute antibiotic use and pain in mice, August 2024, UTD Summer Platform for Undergraduate Research Symposium, Richardson, TX
24. Pratt M, Schaub MK, Dussor G, **Sadler KE**. Probiotic treatment alleviates chronic pain in sickle cell disease mice, April 2024, United States Association for the Study of Pain Annual Meeting, Seattle, WA
25. **Sadler KE**, Atkinson S, Ehlers V, Waltz T, Hayward M, Rodríguez García D, Salzman N, Stucky C, Brandow A. Gastrointestinal chemosensation drives chronic pain in sickle cell disease, January 2024, Mammalian Somatosensation: Mechanisms of Itch, Touch, Pain and Interoception in Health and Disease Keystone Symposium, Santa Fe, NM
26. John JM, Pearce KM, **Sadler KE**. Effects of antibiotic administration on pain and amygdala activation in mice, August 2023, UTD Summer Platform for Undergraduate Research Symposium, Richardson, TX
27. Rodríguez García D, **Sadler KE**, Kemmo Tsafack U, Szabo A, Stucky C. High speed videography of evoked rodent behaviors: sources of variability and usefulness to identify pain phenotypes, April 2023, United States Association for the Study of Pain Annual Meeting, Durham, NC
28. **Sadler KE**, Atkinson S, Ehlers V, Waltz T, Hayward M, Rodríguez García D, Salzman N, Stucky C, Brandow A. Gut microbiota and metabolites drive persistent pain in sickle cell disease, April 2023, United States Association for the Study of Pain Annual Meeting, Durham, NC
29. Mikesell A, Moehring F, **Sadler KE**, Isaeva O, Mecca C, Stucky C. Keratinocyte PIEZO1 mediates touch sensation and touch allodynia, October 2022, Annual Meeting of the Society for Neuroscience, San Diego, CA

30. Ehlers V, **Sadler KE**, Menzel A, Mecca C, Stucky C. Sickle cell disease hypersensitivity is mediated by TRPV4 in dorsal root ganglia neurons and keratinocytes, October 2022, Annual Meeting of the Society for Neuroscience, San Diego, CA
31. Mikesell A, Moehring F, **Sadler KE**, Isaeva O, Mecca C, Stucky C. Keratinocyte PIEZO1 mediates touch sensation and touch allodynia, April 2022, United States Association for the Study of Pain Annual Meeting, Cincinnati, OH
32. Ehlers V, **Sadler KE**, Menzel A, Stucky C. Transient receptor potential vanilloid 4 mediates hypersensitivity in chronic sickle cell disease pain, April 2022, United States Association for the Study of Pain Annual Meeting, Cincinnati, OH
33. **Sadler KE**, Ehlers V, Brandow A, Stucky C. Sickle cell disease associated changes in the gut microbiome contribute to persistent pain, April 2022, United States Association for the Study of Pain Annual Meeting, Cincinnati, OH
34. Trask S, Mogil J, Helmstetter F, Stucky C, **Sadler KE**. Contextual control of conditioned pain tolerance and endogenous analgesic systems, October 2021, Annual Meeting of the Society for Neuroscience, virtual
35. Rodríguez García D, **Sadler KE**, Stucky C. Longitudinal probiotic treatment decreases mechanical pain in sickle cell disease mice, 2019, Annual Biomedical Research Conference for Minority Students, Anaheim, CA
36. **Sadler KE**, Moehring F, Stucky C. TRPC5 is required for mechanical hypersensitivity in inflammatory pain models, 2019. Annual Meeting of the Society for Neuroscience, Chicago, IL
37. Moehring F, **Sadler KE**, Stucky C. Normal cold sensation requires keratinocyte-to-sensory neuron communication, 2019, Mammalian Somatosensory Systems Keystone Symposium, Seattle, WA
38. Moehring F, **Sadler KE**, Stucky C. Normal cold sensation requires keratinocyte-to-sensory neuron communication, 2019, International Association for the Study of Pain World Congress, Boston, MA
39. Moehring F, **Sadler KE**, Stucky C. Normal cold sensation requires keratinocyte-to-sensory neuron communication, 2019, American Pain Society Annual Meeting, Milwaukee, WI
40. Moehring F, **Sadler KE**, Stucky C. Normal cold sensation requires keratinocyte-to-sensory neuron communication, 2019, Midwest Regional Pain Interest Group Meeting, Kansas City, KS
41. **Sadler KE**, Zappia K, Weyer A, O'Hara C, Hillery C, Stucky C. Chemokine receptor 2 (CCR2) mediates mechanical and cold hypersensitivity in sickle cell disease pain, 2018, American Pain Society Annual Meeting, Anaheim, CA
42. **Sadler KE**, Zappia K, Weyer A, O'Hara C, Hillery C, Stucky C. Chemokine receptor 2 (CCR2) mediates mechanical and cold hypersensitivity in sickle cell disease pain, 2018, 12<sup>th</sup> Annual NIH Pain Consortium Symposium, Bethesda, MD
43. **Sadler KE**, Zappia K, Weyer A, O'Hara C, Hillery C, Stucky C. Chemokine receptor 2 (CCR2) mediates mechanical and cold hypersensitivity in sickle cell disease pain, 2018, Annual Meeting of the Society for Neuroscience, Washington, DC
44. **Sadler KE**, Kolber B. Divergent roles of the left and right central amygdala in visceral pain modulation, October 2016, New Frontiers of Pain Research in the 21<sup>st</sup> Century Meeting, Birmingham, AL
45. **Sadler KE**, Kolber B. Divergent roles of the left and right central amygdala in visceral pain modulation, October 2016, Overcoming Barriers to the Translation of Pain Research Conference, Pittsburgh, PA
46. **Sadler KE**, Kolber B. Divergent roles of the left and right central amygdala in visceral pain modulation, September 2016, Center for Neuroscience at the University of Pittsburgh Annual Retreat, Wheeling, WV

47. **Sadler KE**, Kolber B. Divergent roles of the left and right central amygdala in visceral pain modulation, May 2016, American Pain Society Annual Meeting, Austin, TX
48. Cox A, **Sadler KE**, Kolber B. Modeling chronic bladder pain in male and female mice: Exploring the chronicity of repeated cyclophosphamide injections, April 2016, Undergraduate Research and Scholarship Symposium at Duquesne University, Pittsburgh, PA
49. **Sadler KE**, Cavanaugh J, Kolber B. Central amygdala expression of metabotropic glutamate receptor 5 (mGluR5) linked to age-dependent changes in pain plasticity, March 2016, 10<sup>th</sup> Annual Research Day on Aging at University of Pittsburgh, Pittsburgh, PA
50. **Sadler KE**, Trouten A, Kolber B. Asymmetrical involvement of the left and right central amygdala in bladder pain, November 2015, Graduate Student Research Symposium at Duquesne University, Pittsburgh, PA
51. **Sadler KE**, Trouten A, Kolber B. Asymmetrical involvement of the left and right central amygdala in bladder pain, October 2015, Annual Meeting of Society for Neuroscience in Chicago, IL
52. Long C, **Sadler KE**, Kolber B. Analysis of sex-based differences in a mouse model of stress-induced analgesia, October 2015, Faculty for Undergraduate Neuroscience (FUN) Poster Symposium. Chicago, IL
53. **Sadler KE**, Trouten A, Kolber B. Hemispheric lateralization of bladder pain modulation, September 2015, Center for Neuroscience at the University of Pittsburgh (CNUP) Annual Retreat, Wheeling, WV
54. **Sadler KE**, Trouten A, Kolber B. Hemispheric lateralization of bladder pain modulation, August 2015, Duquesne University Department of Biological Sciences Annual Retreat, Linesville, PA
55. Jones K, **Sadler KE**, Kolber B. Analysis of brain mast cells in a model of chronic bladder pain, July 2015, Summer Undergraduate Research Program Symposium, Duquesne University, Pittsburgh, PA
56. **Sadler KE**, Trouten A, Kolber B. Hemispheric lateralization of bladder pain modulation, June 2015, Overcoming Barriers to the Translation of Pain Research Conference at University of Pittsburgh, Pittsburgh, PA
57. **Sadler KE**, Trouten A, Kolber B. Hemispheric lateralization of bladder pain modulation, May 2015, American Pain Society Annual Meeting in Palm Springs, CA
58. Rajaram B, **Sadler KE**, Kolber B. Optimization of an extraction method to analyze neural gene expression in the context of urinary-bladder pain, April 2015, Undergraduate Research Symposium, Duquesne University, Pittsburgh, PA
59. Trouten A, **Sadler KE**, Kolber B. Evaluation of immediate early gene expression following light-induced activation of the central amygdala and basolateral amygdala, April 2015, Undergraduate Research Symposium, Duquesne University, Pittsburgh, PA
60. **Sadler KE**, Trouten A, Kolber B. Optogenetic investigation of bladder pain processing, November 2014, Graduate Student Research Symposium, Duquesne University, Pittsburgh, PA
61. Rajaram B, **Sadler KE**, Kolber B. Bladder pain-induced changes in central amygdala gene expression, July 2014, Undergraduate Research Symposium, Duquesne University, Pittsburgh, PA
62. **Sadler KE**, Stratton J, Kolber B. Effects of body temperature and isoflurane induction on urinary bladder distension, November 2013, Society for Neuroscience Annual Meeting, San Diego, CA
63. **Sadler KE**, Long C, Kolber B. Involvement of central amygdala GABAergic cells in pain processing, October 2013, Graduate Student Research Symposium, Duquesne University, Pittsburgh, PA

64. **Sadler KE**, Stratton J, Kolber B. Optimization of temperature and anesthesia induction method on UBD-VMR mouse model of bladder pain, August 2013, Midwest Regional Pain Interest Group Meeting, Cincinnati, OH
65. Long C, **Sadler KE**, Kolber B. Inflammatory pain and the central amygdala: immunohistochemical analysis of pain markers, July 2013, Undergraduate Research Symposium, Duquesne University, Pittsburgh, PA
66. **Sadler KE**, Stratton J, Kolber B. Effects of body temperature and isoflurane induction on urinary bladder distension, April 2013, Experimental Biology, Boston, MA
67. Stratton J, **Sadler KE**, Kolber B. Designing an infection-based bladder pain model in mice, April 2013, Undergraduate Research & Scholarship Symposium at Duquesne University, Pittsburgh, PA
68. Kolber B, Crock L, Morgan C, **Sadler KE**, Vogt S, Bruchas M & Gereau R IV. Central amygdala mGluR5 in the modulation of visceral pain, October 2012, Annual Meeting of Society for Neuroscience, New Orleans, LA
69. **Sadler KE**, Pazehoski K. Heme binding capabilities of CLOCK and its resulting role in the regulation of circadian rhythm, December 2010, 6<sup>th</sup> Annual Mini-Symposium on Metals in Biological Sciences at Duquesne University, Pittsburgh, PA
70. **Sadler KE**, Pazehoski K. Heme binding capabilities of CLOCK and its resulting role in the regulation of circadian rhythm, October 2010, 13<sup>th</sup> Annual Undergraduate Research Symposium at University of Maryland Baltimore County, Baltimore, MD

#### Other activities not documented in a publication:

1. Speaker in Highland Springs Senior Living Community First Tuesdays lecture series, 2026, Richardson, TX
2. Interviewed for OUCH! Talking Pain with USASP podcast “Episode 30, USASP Board Members Part 1: Dr. Katelyn Sadler and Dr. Hailey Bulls”, March 2026, <https://soundcloud.com/usasp/episode30>
3. *Dallas Morning News* coverage of *Cell Host & Microbe* manuscript “Gut microbe may help ease sickle cell pain, UT Dallas study finds” by Miriam Fauzia, October 2025, <https://www.dallasnews.com/news/2025/10/06/gut-microbe-may-help-ease-sickle-cell-pain-ut-dallas-study-finds/>
4. UT Dallas news story “Study links chronic sickle cell pain to gut microbial imbalance” by Stephen Fontenot, September 2025, <https://news.utdallas.edu/health-medicine/chronic-sickle-cell-pain-study-2025/>
5. Quoted in “Gut microbes cause fibromyalgia-like symptoms in mice” by Shelby Bradford, *The Scientist*, August 2025, <https://www.the-scientist.com/gut-microbes-cause-fibromyalgia-like-symptoms-in-mice-73248>
6. Quoted in “Baffling chronic pain eases after doses of gut microbes” by Humberto Basilio, *Nature*, April 2025, <https://doi.org/10.1038/d41586-025-01290-x>
7. Interviewed for Talks Over (Boba) Tea podcast, May 2025, <https://podcasts.apple.com/ae/podcast/dr-katelyn-sadler-neuroscience-researcher-and-professor/id1766152423?i=1000710460054>
8. “Exploring relationships between the gut microbiome and chronic pain”, December 2023, UT Dallas Microbiology Super Group, Richardson, TX
9. Speaker at the Addison Rotary Club meeting, 2023, Addison, TX
10. Moderated The Pain Beat podcast, “Episode 8 - Studying and understanding sex differences in pain: the how and why”, December 2021, <https://thepainbeat.libsyn.com/the-pain-beat-episode-8-studying-and-understanding-sex-differences-in-pain-the-how-and-the-why>

11. Interviewed for Pain Research Forum podcast, “A translational collaboration to advance understanding of sickle cell pain: a podcast with Amanda Brandow and Kate Sadler”, July 2019, <https://painresearchforum.org/117861-translational-collaboration-advance-understanding-sickle-cell-pain-podcast>

### **Grants/contracts awarded:**

1. “Understanding how stress-induced gut dysbiosis contributes to the development of migraine”  
NINDS Ruth L. Kirchstein NRSA for Training of Postdoctoral Fellows (F32)  
PI: Ashley Plumb, sponsor: **Katelyn Sadler**, co-sponsor: Greg Dussor (UTD)  
National Institute of Neurological Diseases and Stroke (NINDS), NIH  
2025 – 2027, \$156,128
1. “Gut microbiome targets for sickle cell disease pain management”  
NIH Research Project Grant (R01)  
PI: **Katelyn Sadler** Co-I: Amanda Brandow (Medical College of Wisconsin), Kelli Palmer (UTD Biology)  
National Heart Lung and Blood Institute (NHLBI), NIH  
2026 – 2031, \$3,042,683
2. “Vaginal microbiome-nociceptor interactions in endometriosis pain”  
NIH Research Project Grant (R01)  
PI: **Katelyn Sadler**, Co-I: Nicole De Nisco (UTD, Biology)  
National Institute of Child Health and Human Development (NICHD), NIH  
2026 – 2030, \$3,384,207
3. A tale of two afferents: comparing contributions of extrinsic colonic afferent populations in sickle cell disease fecal microbiota transplant pain”  
PI: **Katelyn Sadler**  
SCDPAIN Pilot Award  
2026 - 2027, \$50,000
4. “Effects of antibiotics on nociceptive and analgesic circuits in gut”  
PI: **Katelyn Sadler**  
Rita Allen Foundation Award in Pain  
2024– 2027, \$150,000
5. “Sickle cell disease gut dysbiosis effects on CNS pain processing”  
NIH Pathway to Independence Award (R00)  
PI: **Katelyn Sadler**  
National Heart Lung and Blood Institute, NIH  
2023 – 2026, \$747,000
6. “Human nociceptor and spinal cord molecular signature center”  
HEAL Initiative: Discovery and Functional Evaluation of Human Pain-associated Genes & Cells (U19)  
PI: Theodore Price (UTD), Michele Curtalo (UW), Pat Dougherty (MD Anderson); Co-I: Greg Dussor, Michael Burton, **Katelyn Sadler**  
2022 – 2027, \$11,378,670
7. “Sickle cell disease gut dysbiosis effects on CNS pain processing”  
NIH Pathway to Independence Award (K99)  
PI: **Katelyn Sadler**  
National Heart Lung and Blood Institute, NIH  
2021 - 2023, \$230,256
8. “Fibroblast-to-neuron communication in muscle pain”  
NINDS Ruth L. Kirchstein NRSA for Training of Postdoctoral Fellows (F32)

PI: **Katelyn Sadler**

National Institute of Neurological Diseases and Stroke (NINDS), NIH

2018 – 2019, \$104,201

9. “Age-dependent changes in amygdala signaling responsible for altered pain sensitivity”

Aging Research and Teaching Consortium Stimulator Grant

PI: **Katelyn Sadler**

Duquesne University

2016 – 2017, \$2,250

10. “Effects of central amygdala lateralization on descending control of bladder pain”

Ruth L. Kirchstein NRSA Predoctoral Fellowship (F31)

PI: **Katelyn Sadler**

National Institute of Diabetes and Digestive and Kidney Diseases, NIH

2014 – 2017, \$115,269

**Teaching:**

**Postdoctoral fellows directly supervised:**

| Name                   | Dates          | Project summary, awards received                                                                                                                                                                                                                                                                         |
|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zulmary Manjarres, PhD | 2025 – present | Peripheral mechanisms of endometriosis pain<br><ul style="list-style-type: none"> <li>• <i>Recipient of USASP Award for High Priority Early Career Investigators Award</i></li> </ul>                                                                                                                    |
| Ashley Plumb, PhD      | 2024 – present | Gut microbiome drivers of chronic pain and neuropathy<br><ul style="list-style-type: none"> <li>• <i>NINDS F32 recipient</i></li> <li>• <i>Recipient of 2026 USASP Annual Meeting Travel Award</i></li> <li>• <i>Runner-up for 2026 G.F. Gebhart Journal of Pain Young Investigator Award</i></li> </ul> |
| Katherine Pearce, PhD  | 2023 – 2024    | Effects of early life microbiome manipulations on visceral pain development                                                                                                                                                                                                                              |

**Postdoctoral fellow mentoring committees:**

| Name               | Dates          | Project summary                                                                                         |
|--------------------|----------------|---------------------------------------------------------------------------------------------------------|
| Maliha Batool, PhD | 2025 – present | Mechanistic dissection of epithelial defensin functions in vaginal immunity (NIH F32: Xintong Dong Lab) |

**PhD students directly supervised:**

| Name             | Dates          | Dissertation title, awards received                                                                                                                                                                                                                                                   |
|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| McKenna Pratt    | 2025 – present | In progress<br><ul style="list-style-type: none"> <li>• <i>Recipient of McDermott Graduate Fellowship</i></li> <li>• <i>Recipient of 2026 USASP Annual Meeting Travel Award</i></li> <li>• <i>Selected to present rapid fire poster pitch at 2026 USASP Annual Meeting</i></li> </ul> |
| Salma AshShareef | 2024 – 2025    | Transferred to Burton Lab<br><ul style="list-style-type: none"> <li>• <i>Recipient of USASP Award for High Priority Early Career Investigator</i></li> </ul>                                                                                                                          |

|                       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ynaluak (Nya) Gayluak | 2023 – present | <p>In progress; passed qualifying exam April 2026</p> <ul style="list-style-type: none"> <li>• <i>Recipient of USASP Award for High Priority Early Career Investigator</i></li> <li>• <i>Recipient of Travel Award for 48<sup>th</sup> National Sickle Cell Disease Scientific Meeting</i></li> <li>• <i>Selected to present data blitz at 2026 USASP SCD pre-conference workshop</i></li> <li>• <i>Member of North American Pain School class of 2026; selected for Science Communications program</i></li> <li>• <i>Winner, Best Poster Award for Preclinical, Predoctoral Trainee, 2026 USASP Annual Meeting</i></li> </ul> |
|-----------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PhD dissertation committees, member:**

| Name                    | Date           | Title                                                                    |
|-------------------------|----------------|--------------------------------------------------------------------------|
| Isabella Casmedes       | 2026 – present | In progress                                                              |
| Michael Ojo             | 2025 – present | In progress                                                              |
| Audrey Green            | 2025 – present | In progress                                                              |
| Aoi Suzaki              | 2025 – present | In progress                                                              |
| Hailey Welch            | 2024 – present | In progress                                                              |
| Shiva Nematgorgani      | 2024 – present | In progress                                                              |
| Marisol Mancilla Moreno | 2024 – present | In progress                                                              |
| Lucy He                 | 2024 – present | In progress                                                              |
| Mandee Schaub           | 2024 – present | In progress                                                              |
| Khadijah Mazhar         | 2026           | <i>Cellular mechanisms in nociceptor sprouting and neurodegeneration</i> |

**PhD First Year Project committees, member:**

| Name                    | Date | Title                                                                                                                           |
|-------------------------|------|---------------------------------------------------------------------------------------------------------------------------------|
| Melissa Salazar         | 2026 | <i>Early life programming of behavior and immune function across the lifespan</i>                                               |
| Isabella Casmedes       | 2025 | <i>Sensory neuron CB1R's role in neurogenic inflammation</i>                                                                    |
| Michael Ojo             | 2024 | <i>The role of central amygdalar calcitonin gene-related peptide receptor in bladder pain</i>                                   |
| Ana Sofia Carreón       | 2024 | <i>Assessing the analgesic potency of veraguamides on mechanical hypersensitivity in a mouse model</i>                          |
| Aoi Suzaki              | 2024 | <i>The role of the insular cortex in the processing of positive valence information from the gut-innervating vagus nerve</i>    |
| Lucy He                 | 2023 | <i>Characterizing prolactin receptor expression and localization in humans</i>                                                  |
| Marisol Mancilla Moreno | 2023 | <i>Characterization of pig dorsal root ganglia and identification of CHRNA3 neural population using spatial transcriptomics</i> |
| Phuong Pham             | 2023 | <i>The central amygdala meets CRISPR-Cas13d: a Calcr1 knockdown functional study</i>                                            |

**PhD rotation students supervised:**

| Name         | Date | Institution (if not UT Dallas) |
|--------------|------|--------------------------------|
| Amber Frantz | 2026 |                                |

|                  |      |                              |
|------------------|------|------------------------------|
| Alecia Aldrich   | 2026 |                              |
| Ifunanya Okolie  | 2024 |                              |
| Salma AshShareef | 2023 |                              |
| Minsung Kim      | 2023 |                              |
| Aoi Suzaki       | 2023 |                              |
| Emma Bonniwell   | 2021 | Medical College of Wisconsin |
| Christina Mecca  | 2019 | Medical College of Wisconsin |
| Kayla Schwartz   | 2019 | Medical College of Wisconsin |
| Sarah Timmler    | 2018 | Medical College of Wisconsin |
| Ben O'Brien      | 2018 | Medical College of Wisconsin |
| Ashley Erb       | 2018 | Medical College of Wisconsin |
| Becca Slick      | 2017 | Medical College of Wisconsin |
| Heather Allen    | 2016 | Duquesne University          |

### Visiting scholars supervised:

| Name           | Date | Home institution, <i>project</i>                                         |
|----------------|------|--------------------------------------------------------------------------|
| Julie Jacobsen | 2026 | Aarhus University, <i>Uterine innervation across the menstrual cycle</i> |

### Master's thesis committees, member:

| Name                  | Date       | Title                                                                                   |
|-----------------------|------------|-----------------------------------------------------------------------------------------|
| Pak Kiu Harrison Chiu | 2023 -2024 | <i>The role of translational repressor 4E-BP1/2 in cortical neuron axon development</i> |

### Undergraduate researcher advisement:

\* Indicates student was included as author on a peer-reviewed manuscript from work I oversaw

| Name                          | Time mentored  | Awards + Institution (if not UT Dallas)                                                                                                                                                                                                                                                                                                 |
|-------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Abigail Zheng                 | 2026 – present |                                                                                                                                                                                                                                                                                                                                         |
| Mihika Thatte                 | 2026 – present | <i>Clark Summer Research Scholar (2026)</i>                                                                                                                                                                                                                                                                                             |
| Victoria Urbanek              | 2026 – present |                                                                                                                                                                                                                                                                                                                                         |
| Kathryn Poshadlo              | 2026           | <ul style="list-style-type: none"> <li><i>Undergraduate Research Apprenticeship Program (URAP) participant (2026)</i></li> </ul>                                                                                                                                                                                                        |
| Riley Shasteen                | 2026 – present | <ul style="list-style-type: none"> <li><i>Undergraduate Research Apprenticeship Program (URAP) participant (2026)</i></li> <li><i>Recipient of School of Behavioral and Brain Sciences SPUR Award (2026)</i></li> </ul>                                                                                                                 |
| Celina Kuruvilla              | 2026 – present |                                                                                                                                                                                                                                                                                                                                         |
| Nurfatihah (Teehah) Zulkifly* | 2025 – present | <ul style="list-style-type: none"> <li><i>Clark Summer Research Scholar (2025)</i></li> <li><i>Recipient of Office of Research and Innovation SPUR Award (2025)</i></li> <li><i>Recipient of Center for Advanced Pain Studies SPUR Award (2026)</i></li> </ul>                                                                          |
| Raina Karakkattil             | 2025 – present | <ul style="list-style-type: none"> <li><i>Undergraduate Research Apprenticeship Program (URAP) participant (2025)</i></li> <li><i>Recipient of School of Behavioral and Brain Sciences SPUR Award (2025)</i></li> <li><i>Abstract selected for oral presentation at National Conference on Undergraduate Research (2026)</i></li> </ul> |

|                          |                |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                | <ul style="list-style-type: none"> <li>• Recipient of Cyrus D. Cantrell III Academic Enhancement Grant (\$500; 2026)</li> <li>• Recipient of Phi Kappa Phi Study Abroad Grant (\$1000; 2026)</li> <li>• Recipient of Phi Kappa Phi Pioneer Award (\$1000, 2026)</li> </ul>                                                                                                             |
| Sourav Roy               | 2024 – present |                                                                                                                                                                                                                                                                                                                                                                                        |
| Victor Cho               | 2024           | Clark Summer Research Scholar (2024)                                                                                                                                                                                                                                                                                                                                                   |
| Divya Arivalagan         | 2023 – 2025    |                                                                                                                                                                                                                                                                                                                                                                                        |
| Juanna John**            | 2023 – present | <ul style="list-style-type: none"> <li>• Clark Summer Research Scholar (2023)</li> <li>• Recipient of full Travel Award for 2024 ABRCMS meeting</li> <li>• Jonsson School of Engineering and Computer Science SPUR Award (2024)</li> <li>• Office of Graduate Education SPUR Award (2023)</li> <li>• ThinkSwiss Research Scholar (2026)</li> <li>• Goldwater Scholar (2026)</li> </ul> |
| Lucia Cardona*           | 2023 – present |                                                                                                                                                                                                                                                                                                                                                                                        |
| Cheri Chan*              | 2023 – 2024    |                                                                                                                                                                                                                                                                                                                                                                                        |
| Aditi Manjrekar*         | 2023 – 2024    | Hobson Wildenthal Honors College thesis: “Bilirubin reductase in sickle cell disease pain”                                                                                                                                                                                                                                                                                             |
| Nawal Khan               | 2023           |                                                                                                                                                                                                                                                                                                                                                                                        |
| Dianise Rodriguez Garcia | 2019           | Medical College of Wisconsin                                                                                                                                                                                                                                                                                                                                                           |
| Rachel Serio             | 2018           | Medical College of Wisconsin                                                                                                                                                                                                                                                                                                                                                           |
| Christina Mecca          | 2017           | Medical College of Wisconsin                                                                                                                                                                                                                                                                                                                                                           |
| Nathan Gartland*         | 2016           | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Abby Cox*                | 2017 – 2017    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Kara Jones               | 2015           | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Youstina Seliman         | 2015 – 2017    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Allison Trouten*         | 2014 – 2015    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Rani Rajaram             | 2013 – 2015    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Missy Wolz               | 2013 – 2015    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Caela Long               | 2013 – 2015    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Devon Burkholder         | 2012 – 2013    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |
| Jared Stratton*          | 2011 – 2013    | Duquesne University                                                                                                                                                                                                                                                                                                                                                                    |

### Research for credit, Instructor of Record:

| Year | Term   | Course number | Title                    | Notes                        |
|------|--------|---------------|--------------------------|------------------------------|
| 2026 | Spring | NSC 4v98.101  | Directed Research        | 6 students, 13 credits total |
| 2025 | Fall   | NSC 4v98.101  | Directed Research        | 5 students, 9 credits total  |
| 2025 | Fall   | HCS 8v89.014  | Research in Neuroscience | 1 student, 8 credits total   |
| 2025 | Summer | HCS 8v89.014  | Research in Neuroscience | 1 student, 3 credits total   |
| 2025 | Spring | NSC 4v98.101  | Directed Research        | 3 students, 7 credits total  |
| 2025 | Spring | HCS 8v89.014  | Research in Neuroscience | 2 students, 10 credits total |
| 2024 | Fall   | NSC 4v98.101  | Directed Research        | 3 students, 4 credits total  |
| 2024 | Fall   | HCS 8v89.014  | Research in Neuroscience | 1 student, 2 credits total   |
| 2024 | Summer | HCS 8v89.103  | Research in Neuroscience | 2 students, 12 credits total |
| 2024 | Spring | NSC 4v98.101  | Directed Research        | 3 students, 4 credits total  |
| 2024 | Spring | HCS 8v89.014  | Research in Neuroscience | 1 student, 5 credits total   |
| 2023 | Fall   | HCS 8v89.014  | Research in Neuroscience | 2 students, 6 credits total  |

**Classroom teaching, Instructor of Record:**

| <b>Year</b> | <b>Term</b> | <b>Course number</b>         | <b>Course title (institution if not UT Dallas)</b>                        |
|-------------|-------------|------------------------------|---------------------------------------------------------------------------|
| 2026        | Fall        | ACN 6372.001<br>HCS 6372.001 | The Neuroscience of Pain                                                  |
| 2026        | Spring      | NSC 4373.001                 | Sensory Neuroscience                                                      |
| 2025        | Fall        | ACN 6372.001<br>HCS 6372.001 | The Neuroscience of Pain                                                  |
| 2025        | Spring      | NSC 4373.002                 | Sensory Neuroscience                                                      |
| 2025        | Spring      | HCS 7121.001                 | Graduate Seminar in Systems Neuroscience                                  |
| 2024        | Fall        | ACN 6372.001<br>HCS 6372.001 | The Neuroscience of Pain                                                  |
| 2024        | Spring      | NSC 4358.hn1                 | Neuroscience of Pain – CV Honors                                          |
| 2023        | Fall        | ACN 6372.001<br>HCS 6372.001 | The Neuroscience of Pain                                                  |
| 2020        | Fall        | NSCI-12298                   | Neuroscience Doctoral Program Journal Club (Medical College of Wisconsin) |
| 2019        | Fall        | NEU 2100 02                  | Introduction to Behavioral Neuroscience (Carthage College)                |
| 2019        | Spring      | NEU 2100 02                  | Introduction to Behavioral Neuroscience (Carthage College)                |
| 2018        | Fall        | NEU 2100 02                  | Introduction to Behavioral Neuroscience (Carthage College)                |
| 2018        | Spring      | BIO452L                      | Cell Biology Lab (Carroll University)                                     |

**Classroom teaching, Teaching Assistant:**

| <b>Year</b> | <b>Term</b> | <b>Course</b>                        | <b>Institution</b>           |
|-------------|-------------|--------------------------------------|------------------------------|
| 2020        | Spring      | Foundations in Biomedical Science IV | Medical College of Wisconsin |
| 2020        | Spring      | Medical Neuroanatomy Lab             | Medical College of Wisconsin |
| 2019        | Spring      | Medical Neuroanatomy Lab             | Medical College of Wisconsin |
| 2014        | Fall        | Experimental Biology I (SuperLab 1)  | Duquesne University          |
| 2014        | Spring      | Introductory Microbiology            | Duquesne University          |
| 2013        | Fall        | Experimental Biology I (SuperLab 1)  | Duquesne University          |
| 2013        | Spring      | Biology II Lab                       | Duquesne University          |
| 2012        | Fall        | Biology I Lab                        | Duquesne University          |
| 2012        | Spring      | Biology II Lab                       | Duquesne University          |
| 2011        | Fall        | Biology I Lab                        | Duquesne University          |

**Guest Lectures:**

| <b>Year</b> | <b>Term</b> | <b>Course, Institution</b>                                 | <b>Topic</b>             |
|-------------|-------------|------------------------------------------------------------|--------------------------|
| 2025        | Spring      | Contemporary Topics in Sociology, Seton Hill University    | Federal Research Funding |
| 2025        | Spring      | The Neuroscience of Pain, Pomona College                   | Microbiome and Pain      |
| 2022        | Spring      | Fundamentals of Neuroscience, Medical College of Wisconsin | Neuroscience of Emotion  |
| 2021        | Spring      | Fundamentals of Neuroscience, Medical College of Wisconsin | Neuroscience of Emotion  |
| 2021        | Spring      | Medical Neuroscience, Medical College of Wisconsin         | Limbic System            |
| 2020        | Spring      | Fundamentals of Neuroscience, Medical College of Wisconsin | Neuroscience of Emotion  |
| 2020        | Spring      | Medical Neuroscience, Medical College of Wisconsin         | Limbic System            |
| 2019        | Spring      | Fundamentals of Neuroscience, Medical College of Wisconsin | Neuroscience of Emotion  |
| 2019        | Spring      | Medical Neuroscience, Medical College of Wisconsin         | Limbic System            |
| 2016        | Spring      | Systems Neuroscience, Carnegie Mellon University           | Pain and Itch            |

**Service:****University committees and service at UT Dallas:**

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| 2025           | Member, BBS Strategic Planning: Community Engagement & Service Committee  |
| 2024 – present | Member, Systems and Cellular Neuroscience Graduate Program Committee      |
| 2024 – 2025    | Member, BBS Colloquium Committee                                          |
| 2023           | Faculty Advisor, Women in Neuroscience                                    |
| 2023           | Cognitive and Systems Neuroscience PhD Program Retreat Planning Committee |
| 2023 – present | Organizer, Center for Advanced Pain Studies Seminar Series                |

**Grant Reviewer** (number of grants reviewed):

|      |                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------|
| 2026 | Reviewer, Center for Scientific Review Special Emphasis Panel (ZRG1 NPA-U(92)), NIH (7)                            |
| 2026 | Reviewer, SCDPAIN Pilot Grants Program                                                                             |
| 2026 | Reviewer, French National Research Agency (ANR; 1)                                                                 |
| 2026 | Reviewer, Austrian Science Fund (FWF; 1)                                                                           |
| 2025 | Reviewer, Digestive and Nutrition Physiology and Diseases (DNPD) Study Section, NIH (7)                            |
| 2025 | Reviewer, Clinical Topics in Neuroimmunology and Neuroinflammation Special Emphasis Panel (ZRG1 CN-X(85)), NIH (8) |
| 2024 | Reviewer, Neurobiology of Pain and Itch (NPI) Study Section, NIH (2)                                               |

**Journal Reviewer** (number of papers reviewed since starting faculty position in 01/2023):

*Blood* (2)  
*Cell Host & Microbe* (2)  
*Anesthesiology* (1)  
*Brain, Behavior and Immunity* (4)  
*JCI Insight* (1)  
*Neuropsychopharmacology* (1)  
*Cell Reports* (2)  
*Pain* (8)  
*Cell Reports Methods* (1)  
*Journal of Neuroscience* (3)  
*The Journal of Pain* (8)  
*iScience* (1)  
*European Journal of Pain* (1)  
*Neurobiology of Pain* (3)  
*Pain Reports* (1)  
*Pain Medicine* (1)  
*eNeuro* (1)  
*Physiology and Behavior* (2)  
*Autonomic Neuroscience: Basic and Clinical* (1)  
*Genes, Brain and Behavior* (1)  
*Current Opinion in Physiology* (1)  
*Blood Vessels, Thrombosis & Hemostasis* (1)  
*eLife* (2)  
*Journal of Sickle Cell Disease* (1)

**External and professional society positions, committee, and service:**

|                |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| 2026 – present | Basic Science Chair, Board of Directors, US Association for the Study of Pain         |
| 2025 – present | Member, Scientific Program Committee, US Associations for the Study of Pain           |
| 2024           | Member, HEAL Pain Strategic Planning Workforce and Training Subcommittee, NIH         |
| 2024 – present | Member, Editorial Board, <i>The Journal of Pain</i>                                   |
| 2023           | Co-chair, Neuropathic Pain Consortium Programming Committee, Peripheral Nerve Society |

|             |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------|
| 2023 – 2025 | Co-chair, Education and Professional Development Committee, US Association for the Study of Pain |
| 2022 – 2025 | Member, Education and Professional Development Committee, US Association for the Study of Pain   |

#### **University committees and service prior to UT Dallas:**

|             |                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 2022        | Panelist, USASP Annual Meeting, Early Career Forum K Grant Panel                                                                  |
| 2022        | Panelist, MCW Spotlight on Science: Negotiation with a Gender Lens                                                                |
| 2022        | Panelist, Advance: From Postdoc to Faculty course, Sessions 1 (Intro to Job Market), 5 (Interviewing)                             |
| 2021, 2020  | Moderator and organizer, MCW Postdoctoral Research Symposium                                                                      |
| 2021        | Co-organizer, Society for Neuroscience Somatosensation and Pain Pub Quiz social                                                   |
| 2020 – 2021 | Member, MCW Postdoctoral Advisory Committee                                                                                       |
| 2020        | Moderator and organizer, USASP webinar series “Lost in Translation: Current state of preclinical pain manipulations and measures” |
| 2020 – 2021 | Organizer, Pain Journal Club at MCW                                                                                               |
| 2020        | Panelist, MCW Spotlight on Science: NIH Fellowship Writing                                                                        |
| 2019        | Moderator, Midwest Regional Pain Interest Group Meeting, U Kansas Med Center                                                      |
| 2019        | Judge, MCW SPUR/DSHREP Research Symposium                                                                                         |
| 2019        | Social Media Champions Captain, American Pain Society Annual Meeting                                                              |
| 2018, 2019  | Planning committee, Incoming Neuroscience PhD Student Bootcamp, MCW + Marquette U                                                 |
| 2017 – 2021 | Postdoctoral Representative, MCW CBNA faculty meetings                                                                            |
| 2015        | Organizer, Inaugural Department of Biological Sciences Annual Retreat at Duquesne                                                 |
| 2014 – 2016 | Judge, PA Junior Academy of Science Regional Competition, Pittsburgh, PA                                                          |
| 2014 – 2016 | Graduate Student Representative, Duquesne U. Biology Department faculty meetings                                                  |
| 2014        | Moderator, Duquesne University Undergraduate Research Ethics Forum                                                                |