

Gregory Dussor, PhD  
Professor and Department Head  
Eugene McDermott Endowed Fellow  
Dept of Neuroscience, Center for Advanced Pain Studies  
School of Behavioral and Brain Sciences  
The University of Texas at Dallas

### **Educational History**

BS, 1997, The University of Alabama, Tuscaloosa, Alabama. Biochemistry

PhD, 2002, The University of Texas Health Science Center, San Antonio, Texas. Pharmacology  
Dissertation Title: Cholinergic Modulation of Primary Sensory Neuronal Activity  
Advisor: Christopher M Flores/Kenneth M Hargreaves

Post-doctoral fellowship, 2003-2007, Vollum Institute, Oregon Health & Science University, Portland, OR  
Advisor: Ed McCleskey

### **Employment History**

Assistant Professor, 2007-2013, The University of Arizona College of Medicine, Tucson, AZ

Associate Professor, 2013-2104, The University of Arizona College of Medicine, Tucson, AZ

Associate Professor, 2014-2021, The University of Texas at Dallas, Richardson, TX

Professor, 2021-, The University of Texas at Dallas, Richardson, TX

Chair, 2021-, Department of Neuroscience, The University of Texas at Dallas, Richardson, TX

### **Professional recognitions and honors**

Predocctoral Individual National Research Service Award, 1999, National Institute on Drug Abuse, NIH

UTHSCSA Dept of Pharmacology Award for Academic Excellence, 2003

Future Leaders in Pain Research Award, 2009, American Pain Society

Associate Editor, 2009- , PAIN

Vernon and Virginia Furrow Award for Excellence in Graduate Student Education, 2011, University of Arizona

Visiting Professor Fellowship, 2011, Mayo Clinic Scottsdale, AZ

Review Editor, 2016- , Frontiers in Neurology

Section Editor, Basic Science, 2016- , PAIN Reports

Associate Editor, 2016-2021, Headache

Medical Advisory Board, 2016- , Migraine Research Foundation

Associate Editor, 2017- , Molecular Pain

Eugene McDermott Endowed Fellow, 2018- , UT Dallas

Associate Editor, 2019- , The Journal of Neuroscience

Associate Editor, 2019- , The Journal of Headache and Pain

Member Spotlight, December 2019, American Headache Society

<https://americanheadachesociety.org/news/member-spotlight-gregory-dussor/>

Mayday Fellow, 2020-2021

Associate Editor, Journal of Pain, 2022-

Associate Editor, Journal of Headache and Pain, 2023-

### **Professional memberships**

Society for Neuroscience, 1998-

International Association for the Study of Pain, 1999-

American Pain Society, 2000-

American Headache Society, 2012-

International Headache Society, 2013-

## Achievements in original investigation

### Books co-edited

*Molecular and Cell Biology of Pain: Progress in Molecular and Translational Science*, **G Dussor** and T Price, Oxford, UK: Elsevier (2015); 131:xvii-xviii. 648 p.

### Book chapters authored

**Dussor G** (2017) Meningeal afferent ion channels and their role in migraine. In *Neurobiological Basis of Migraine*, ed. By Turgay Dalkara and Michael Moskowitz. Wiley Blackwell. 49-68.

Lackovic, J., **Dussor, G.**, (2022). Headache. In: Kenakin, T. (Ed.), *Comprehensive Pharmacology*. vol. 3, pp. 590–611. Elsevier. <https://dx.doi.org/10.1016/B978-0-12-820472-6.00105-5>.

### Journal special issues co-edited

*Recent Discoveries in Peripheral and Central Mechanisms of Pain* (2017) Co-edited by **Greg Dussor** and David McKemy (from Univ Southern California). *Frontiers in Cellular Neuroscience*.

### Articles in refereed journals (120 total publications, h-index 50 using Google Scholar)

- Lackovic J, Jeevakumar V, Burton M, Price TJ, Dussor G. (2023) Peroxynitrite contributes to behavioral responses, increased trigeminal excitability, and changes in mitochondrial function in a preclinical model of migraine. *J Neurosci*. 2023 Jan 25;JN-RM-1366-22. doi: 10.1523/JNEUROSCI.1366-22.2023.
- Al-Karagholi MA, Kalatharan V, Ghanizada H, Gram C, **Dussor G**, Ashina M. (2023) Prolactin in headache and migraine: a systemic review of clinical studies. *Cephalalgia*. 2023 Feb;43(2):3331024221136286. doi: 10.1177/03331024221136286.
- Do TP, Hougaard A, **Dussor G**, Brennan KC, Amin FM. (2023) Migraine attacks are of peripheral origin: the debate goes on. *J Headache Pain*. 2023 Jan 10;24(1):3. doi: 10.1186/s10194-022-01538-1.
- Kume M, Ahmad A, Shiers S, Burton MD, DeFea KA, Vagner J, **Dussor G**, Boitano S, Price TJ. (2022) C781, a beta-arrestin biased antagonist at protease-activated receptor-2 (PAR2), displays in vivo efficacy against protease-induced pain in mice. *J Pain*. 2022 Nov 20;S1526-5900(22)00454-0. doi: 10.1016/j.jpain.2022.11.006.
- Lackovic J, Price TJ, **Dussor G** (2022) MNK1/2 contributes to periorbital hypersensitivity and hyperalgesic priming in preclinical migraine models. *Brain*. Oct 27. awac386. doi: 10.1093/brain/awac386.
- Mason BN, Kallianpur R, Price TJ, Akopian AN, **Dussor GO** (2022) Prolactin signaling modulates stress-induced behavioral responses in a preclinical mouse model of migraine. *Headache*. Dec 29. doi: 10.1111/head.14248.  
*Awarded the Basic Science Prize for the top basic science manuscript published in the journal in 2022*
- Hegarty DM, Carroll JR, Nguyen D, Halls VS, Robbins DI, Price TJ, **Dussor G**, Aicher SA. (2022) Resveratrol increases tear production and ocular pain after corneal abrasion in male, but not female, rats using a photorefractive keratectomy model. *Exp Eye Res*. 2022 Dec;225:109281. doi: 10.1016/j.exer.2022.109281. Epub 2022 Oct 18.
- Ray PR, Shiers S, Caruso JP, Tavares-Ferreira D, Sankaranarayanan I, Uhelski ML, Li Y, North RY, Tatsui C, **Dussor G**, Burton MD, Dougherty PM, Price TJ. (2022) RNA profiling of human dorsal root ganglia reveals sex-differences in mechanisms promoting neuropathic pain. *Brain*. 2022 Jul 22;awac266. doi: 10.1093/brain/awac266.

- Schiff HV, Rivas CM, Pederson WP, Sandoval E, Gillman S, Prisco J, Kume M, **Dussor G**, Vagner J, Ledford JG, Price TJ, DeFea KA, Boitano S. (2022) Beta-arrestin-biased proteinase-activated receptor-2 antagonist C781 limits allergen-induced airway hyperresponsiveness and inflammation. *Br J Pharmacol.* 2022 Jun 23. doi: 10.1111/bph.15903.
- Tavares-Ferreira D, Shiers S, Ray PR, Wangzhou A, Jeevakumar V, Sankaranarayanan I, Cervantes AM, Reese JC, Chamesian A, Copits BA, Dougherty PM, Gereau RW 4th, Burton MD, **Dussor G**, Price TJ. (2022) Spatial transcriptomics of dorsal root ganglia identifies molecular signatures of human nociceptors. *Sci Transl Med.* 2022 Feb 16;14(632):eabj8186. doi: 10.1126/scitranslmed.abj8186.
- Mecklenburg J, Wangzhou A, Hovhannisyan AH, Barba-Escobedo P, Shein SA, Zou Y, Weldon K, Lai Z, Goffin V, **Dussor G**, Tumanov AV, Price TJ, Akopian AN. (2022) Sex-dependent pain trajectories induced by prolactin require an inflammatory response for pain resolution. *Brain Behav Immun.* 2022 Mar;101:246-263. doi: 10.1016/j.bbi.2022.01.016. Epub 2022 Jan 19.
- Rivas CM, Schiff HV, Moutal A, Khanna R, Kiela PR, **Dussor G**, Price TJ, Vagner J, DeFea KA, Boitano S. (2022) *Alternaria alternata*-induced airway epithelial signaling and inflammatory responses via protease-activated receptor-2 expression. *Biochem Biophys Res Commun.* 2022 Feb 5;591:13-19. doi: 10.1016/j.bbrc.2021.12.090. Epub 2021 Dec 29.
- Paige C, Plasencia-Fernandez I, Kume M, Papalampropoulou-Tsiridou M, Lorenzo LE, David ET, He L, Mejia GL, Driskill C, Ferrini F, Feldhaus AL, Garcia-Martinez LF, Akopian AN, De Koninck Y, **Dussor G**, Price TJ. (2022) A female-specific role for calcitonin gene-related peptide (CGRP) in rodent pain models. *J Neurosci.* Mar 9;42(10):1930-1944. doi: 10.1523/JNEUROSCI.1137-21.2022.
- Rivas CM, Yee MC, Addison KJ, Lovett M, Pal K, Ledford JG, **Dussor G**, Price TJ, Vagner J, DeFea KA, Boitano S. (2021) Novel proteinase-activated receptor-2 (PAR2) antagonist C391 inhibits *Alternaria*-induced human airway epithelial signaling in vitro and asthma indicators in acute exposure murine models. *Br J Pharmacol.* Nov 28.
- Mason BN, Avona A, Lackovic J, **Dussor G**. (2021) Dural Stimulation and Periorbital von Frey Testing in Mice As a Preclinical Model of Headache. *J Vis Exp.* Jul 29;(173).
- Avona A, Price TJ, **Dussor G**. (2021) Interleukin-6 induces spatially dependent whole-body hypersensitivity in rats: implications for extracephalic hypersensitivity in migraine. *J Headache Pain.* Jul 13;22(1):70
- Eller OC, Yang X, Fuentes IM, Pierce AN, Jones BM, Brake AD, Wang R, **Dussor G**, Christianson JA. (2021) Voluntary Wheel Running Partially Attenuates Early Life Stress-Induced Neuroimmune Measures in the Dura and Evoked Migraine-Like Behaviors in Female Mice. *Front Physiol.* May 28;12:665732
- 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 mediates inflammatory mechanical and spontaneous pain in mice. *Sci Transl Med.* May 26;13(595)
- Wangzhou A, Paige C, Ray PR, **Dussor G**, Price TJ. *Neuroscience.* (2021) Diversity of Receptor Expression in Central and Peripheral Mouse Neurons Estimated from Single Cell RNA Sequencing. May 21;463:86-96.
- Avona A, Mason BN, Burgos-Vega C, Hovhannisyan AH, Belugin SN, Mecklenburg J, Goffin V, Wajahat N, Price TJ, Akopian AN, **Dussor G**. (2021) Meningeal CGRP-Prolactin interaction evokes female-specific migraine behavior. *Ann Neurol.* In press. Jun;89(6):1129-1144
- Tavares-Ferreira D, Ray PR, Sankaranarayanan I, Mejia GL, Wangzhou A, Shiers S, Uttarkar R, Megat S, Barragan-Iglesias P, **Dussor G**, Akopian AN, Price TJ. (2020) Sex Differences in Nociceptor Transcriptomes Contribute to Divergent Prostaglandin Signaling in Male and Female Mice. *Biol Psychiatry.* Oct 5:S0006-3223(20)31952-1.
- Mwirigi J, Kume M, Hassler SN, Ahmad A, Ray PR, Jiang C, Chamesian A, Mseeh N, Ludwig BP, Rivera BD, Nieman MT, Van de Ven T, Ji RR, **Dussor G**, Boitano S, Vagner J, Price TJ. (2021) A Role for Protease Activated Receptor Type 3 (PAR3) in Nociception Demonstrated Through Development of a Novel Peptide Agonist *J Pain.* Jan 9:S1526-5900(21)00001-8.
- Wangzhou A, Paige C, Neerukonda SV, Naik DK, Kume M, David ET, **Dussor G**, Ray PR, Price TJ. *Sci Signal.* (2021) A ligand-receptor interactome platform for discovery of pain mechanisms and therapeutic targets. Mar 16;14(674):eabe1648.
- Lackovic J, Price TJ, **Dussor G**. (2020) *De novo* protein synthesis is necessary for priming in preclinical models of migraine. *Cephalalgia.* 2020 Nov 17:333102420970514. doi: 10.1177/0333102420970514

- Mecklenburg J, Zou Y, Wangzhou A, Garcia D, Lai Z, Tumanov AV, **Dussor G**, Price TJ, Akopian AN. (2020) Transcriptomic sex differences in sensory neuronal populations of mice. *Sci Rep*. 2020 Sep 17;10(1):15278.
- Paige C, Barba-Escobedo PA, Mecklenburg J, Patil M, Goffin V, Grattan DR, **Dussor G**, Akopian AN, Price TJ. (2020) Neuroendocrine Mechanisms Governing Sex Differences in Hyperalgesic Priming Involve Prolactin Receptor Sensory Neuron Signaling. *J Neurosci*. 2020 Sep 9;40(37):7080-7090
- Avona A, Mason B, Lackovic J, Wajahat N, Motina M, Quigley L, Burgos-Vega C, Loomis C, Garcia-Martinez L, Akopian A, Price T, **Dussor G**. (2020). Repetitive stress in mice causes migraine-like behaviors and CGRP-dependent hyperalgesic priming to a migraine trigger. *Pain*. Jun 10. doi: 10.1097/j.pain.0000000000001953. PMID: 32541386
- Hassler SN, Kume M, Mwirigi JM, Ahmad A, Shiers S, Wangzhou A, Ray PR, Belugin SN, Naik DK, Burton MD, Vagner J, Boitano S, Akopian AN, **Dussor G**, Price TJ. (2020) The cellular basis of protease-activated receptor 2-evoked mechanical and affective pain. *JCI Insight*. 2020 Jun 4;5(11):e137393.
- Ray PR, Wangzhou A, Ghneim N, Yousuf MS, Paige C, Tavares-Ferreira D, Mwirigi JM, Shiers S, Sankaranarayanan I, McFarland AJ, Neerukonda SV, Davidson S, **Dussor G**, Burton MD, Price TJ. (2020) A pharmacological interactome between COVID-19 patient samples and human sensory neurons reveals potential drivers of neurogenic pulmonary dysfunction. *Brain Behav Immun*. 2020 Oct;89:559-568.
- Jeevakumar V, Al Sardar AK, Mohamed F, Smithhart CM, Price T, **Dussor G**. (2020) IL-6 induced upregulation of T-type Ca<sup>2+</sup> currents and sensitization of DRG nociceptors is attenuated by MNK inhibition. *J Neurophysiol*. 2020 Jul 1;124(1):274-283.
- Ruhl CR, Pasko BL, Khan HS, Kindt LM, Stamm CE, Franco LH, Hsia CC, Zhou M, Davis CR, Qin T, Gautron L, Burton MD, Mejia GL, Naik DK, **Dussor G**, Price TJ, Shiloh MU. (2020) Mycobacterium tuberculosis Sulfolipid-1 activates nociceptive neurons and induces cough. *Cell*. 2020 Apr 16;181(2):293-305.e11. doi: 10.1016/j.cell.2020.02.026.
- Barragán-Iglesias P, Franco-Enzástiga Ú, Jeevakumar V, Shiers S, Wangzhou A, Granados-Soto V, Campbell ZT, **Dussor G**, Price TJ. (2020) Type I interferons act direction on nociceptors to produce pain sensitization: implications for viral infection-induced pain. *J Neurosci*. 2020 Apr 1. pii: JN-RM-3055-19. doi: 10.1523/JNEUROSCI.3055-19.2020.
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- **Dussor G** (2019) New discoveries in migraine mechanisms and therapeutic targets. *Curr Opin Physiol*. Oct;11:116-124.
- Patil M, Hovhannisyan AH, Wangzhou A, Mecklenburg J, Koek W, Goffin V, Grattan D, Boehm U, **Dussor G**, Price TJ, Akopian AN. (2019) Prolactin receptor expression in mouse dorsal root ganglia neuronal subtypes is sex-dependent. *J Neuroendocrinol*. 2019 Aug;31(8):e12759. doi: 10.1111/jne.12759.
- Inyang KE, McDougal TA, Ramirez ED, Williams M, Laumet G, Kavelaars A, Heijnen CJ, Burton M, **Dussor G**, Price TJ (2019) Alleviation of paclitaxel-induced mechanical hypersensitivity and hyperalgesic priming with AMPK activators in male and female mice. *Neurobiol Pain*. Sep 27;6:100037.
- Patil M, Belugin S, Mecklenburg J, Wangzhou A, Paige C, Barba-Escobedo PA, Boyd JT, Goffin V, Grattan D, Boehm U, **Dussor G**, Price TJ, Akopian AN (2019) Prolactin regulates pain responses via a female-selective nociceptor-specific mechanism. *iScience*. Oct 25;20:449-465.
- Shiers S, Mwirigi J, Pradhan G, Kume M, Black B, Barragan-Iglesias P, Moy JK, **Dussor G**, Pancrazio JJ, Kroener S, Price TJ (2019) Reversal of peripheral nerve injury-induced neuropathic pain and cognitive dysfunction via genetic and tomivosertib targeting of MNK. *Neuropsychopharmacology*. Feb;45(3):524-533.
- Mihail SM, Wangzhou A, Kunjilwar KK, Moy JK, **Dussor G**, Walters ET, Price TJ (2019) MNK-eIF4E signaling is a highly conserved mechanism for sensory neuronal axonal plasticity: evidence from *Aplysia californica*. *Philos Trans R Soc Lond B Biol Sci*. Nov 11;374(1785):20190289.
- Inyang KE, Burton MD, Szabo-Pardi T, Wentworth E, McDougal TA, Ramirez ED, Pradhan G, **Dussor G**, Price TJ (2019) Indirect AMP-activated protein kinase activators prevent incision-induced

hyperalgesia and block hyperalgesic priming, whereas positive allosteric modulators block only priming in mice. *J Pharmacol Exp Ther.* Oct;371(1):138-150.

- Paige C, Mejia G, **Dussor G**, Price T (2019) AMPK activation regulates P-body dynamics in mouse sensory neurons in vitro and in vivo. *Neurobiol Pain.* Jan-Jul;5. Pii: 100026
- Avona A, Burgos-Vega C, Burton MD, Akopian A, Price TJ, **Dussor G**. (2019) Dural calcitonin gene-related peptide produces female-specific responses in rodent migraine models. *J Neurosci.* May 29;39(22):4323-4331.  
*Villanueva L and Nosedá R: F1000 Prime Recommendation in F1000Prime, 23 Jul 2019; 10.3410/f.735517555.793562406*  
*J Neurosci Spotlight 2019 <https://www.jneurosci.org/spotlight>*
- Megat S, Ray PR, Tavares-Ferreira D, Moy JK, Sankaranarayanan I, Wangzhou A, Fan Lou T, Barragan-Iglesias P, Campbell ZT, **Dussor G**, Price TJ (2019) Differences between dorsal root and trigeminal ganglion nociceptors in mice revealed by translational profiling. *J Neurosci.* Aug 28;39(35):6829-6847.
- Benemei S, **Dussor G** (2019) TRP Channels and Migraine: Recent Developments and New Therapeutic Opportunities. *Pharmaceuticals.* April 9;12(2). Pii: E54
- North RY, Li Y, Ray P, Rhines LD, Tatsui CE, Rao G, Johansson CA, Zhang H, Kim YH, Zhang B, **Dussor G**, Kim TH, Price TJ, Dougherty PM. (2019) Electrophysiological and transcriptomic correlates of neuropathic pain in human dorsal root ganglion neurons. *Brain.* May 1; 142(5):1215-1226. PMC6487328
- Ray PR, Khan J, Wangzhou A, Tavares-Ferreira D, Akopian AN, **Dussor G**, Price TJ. (2019) Transcriptome Analysis of the Human Tibial Nerve Identifies Sexually Dimorphic Expression of Genes Involved in Pain, Inflammation, and Neuro-Immunity. *Front. Mol. Neurosci.* Mar5;12:37
- Ji Y, Rizk A, Voulalas P, Aljohani H, Akerman S, **Dussor G**, Keller A, Masri R (2019) Sex differences in the expression of calcitonin gene-related peptide receptor components in the spinal trigeminal nucleus. *Neurobiol Pain.* Apr 24;6:100031.
- Black BJ, Atmaramani R, Plagens S, Campbell ZT, **Dussor G**, Price TJ, Pancrazio JJ (2019) Emerging neurotechnology for antinociceptive mechanisms and therapeutics discovery. *Biosens Bioelectron.* Feb 1;126:679-689. Doi: 10.1016/j.bios.2018.11.015.
- Inyang KE, Szabo-Pardi T, Wentworth E, McDougal TA, **Dussor G**, Burton MD, Price TJ. (2019) The antidiabetic drug metformin prevents and reverses neuropathic pain and spinal cord microglial activation in male but not female mice. *Pharmacol Res.* 1;139:1-16. Doi: 10.1016/j.phrs.2018.10.027
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- Barragán-Iglesias P, Kuhn J, Vidal-Cantú GC, Salinas-Abarca AB, Granados-Soto V, **Dussor GO**, Campbell ZT, Price TJ. (2019) Activation of the integrated stress response in nociceptors drives methylglyoxal induced pain. *Pain.* Aug 27. doi: 10.1097/j.pain.0000000000001387
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- Hassler SN, Ahmad FB, Burgos-Vega CC, Boitano S, Vagner J, Price TJ, **Dussor G** (2018) Protease Activated Receptor 2 (PAR2) activation causes migraine-like pain behaviors in mice. *Cephalalgia*. In press. 1: 333102418779548
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- **Dussor GO**, Price TJ and Flores CM (2003) Activating Transcription Factor 3 (ATF3) mRNA is Up-Regulated in Primary Cultures of Trigeminal Ganglion Neurons. *Mol Brain Res.* 118:156-159.
- Flores CM, Leong AS, **Dussor GO**, Harding-Rose C, Hargreaves KM and Kilo S. (2001) Capsaicin-evoked CGRP release from rat buccal mucosa: Development of a model system for studying trigeminal mechanisms of neurogenic inflammation. *Eur. J. Neurosci.* 14:1113-1120.

### Invited talks/presentations at professional meetings; seminars

- 2007 Communication between skin cells and sensory neurons as a mechanism for noxious signaling from the epidermis, Neurology Grand Rounds, Dept of Neurology, The University of Arizona Health Sciences Center, Tucson, AZ
- 2007 Basic Science Special Interest Group Lecture, American Pain Society 26<sup>th</sup> Annual Scientific Meeting.
- 2008 Communication between skin cells and sensory neurons as a mechanism for noxious signaling from the skin, Neuroscience GIDP, The University of Arizona
- 2008 MrgD+ cutaneous afferents exhibit temperature-dependent responses to ATP, Nucleotides and Cutaneous Mechanisms of Nociception Session, Spring Pain Research Conference, Grand Cayman, BWI (Submitted)
- 2009 Activation of Dural Afferents by Small Changes in Extracellular pH, Neuroscience GIDP, The University of Arizona
- 2009 Differential Expression of Ligand-Gated Ion Channels on Cutaneous vs Dural Afferent Sensory Neurons, The University of New England, Biddeford, ME
- 2009 Skin-Neuron Communication and Cutaneous Sensory Signaling, Neurobiology Division, Arizona Research Laboratories
- 2010 Mechanisms of dural afferent activation and their role in migraine pathophysiology, The University of North Texas Health Science Center
- 2010 Cutaneous Mrgprd-expressing nociceptors respond to mediators released from skin cells, American Pain Society Annual Meeting, Baltimore, MD
- 2010 Generating Hypothesis about conditions that cause pain by studying primary afferent neurons, Spring Brain Conference, Tucson, AZ
- 2010 Activation of dural afferents by small changes in extracellular pH, Spring Pain Research Conference, Grand Cayman, BWI (Submitted)
- 2010 Ion channels driving pain signaling from the meninges, American Headache Society Headache Conference, Scottsdale, AZ
- 2011 Evaluating migraine targets using preclinical models of headache, Amgen, Thousand Oaks, CA
- 2011 Uncovering Headache Pathophysiology Using Preclinical Animal Models, Mayo Clinic, Dept of Neurology, Scottsdale, AZ
- 2011 Activation of meningeal TRPA1 produces migraine-related behavior in rats, Minority Access to Research Careers Program, The University of Arizona
- 2011 Neurobiology of Medication Overuse, International Headache Conference, Berlin, Germany
- 2011 ASIC expression on dural afferents suggests a role for decreased meningeal pH in migraine headache, American Pain Society Annual Meeting, Austin, TX
- 2011 Activation of meningeal TRPA1 produces migraine-related behavior in rats, American Pain Society Annual Meeting, Austin, TX
- 2011 The role of mast cells and decreased meningeal pH in migraine headache, Canadian Pain Society Annual Meeting, Niagara Falls, ON, Canada
- 2012 Discovering New Therapeutic Targets for Migraine Headache, Frontiers in Biomedical Research, The University of Arizona College of Medicine

- 2012 Meningeal TRPA1 as a Novel Therapeutic Target for Migraine Headache, Collaborative Cancer Grand Rounds, Arizona Cancer Center, Tucson, AZ
- 2012 Activation/sensitization of Dural Afferents as Potential Mechanisms of Headache, Neurosurgery Didactic Conference, Dept of Neurosurgery, The University of Arizona
- 2012 Activation/sensitization of Dural Afferents as Potential Mechanisms of Headache, The University of Iowa Pain Research Program, Iowa City, IA
- 2012 Meningeal pH and the Pathophysiology of Headache: Studies Using Preclinical Headache Models, The University of Florence, Florence, Italy
- 2012 ASIC Expression in the Meninges Suggests a Complex Role in Headache Pathophysiology, International Association for the Study of Pain Conference, Milan, Italy
- 2012 ASIC Expression in the Meninges Suggests a Complex Role in Headache Pathophysiology, American Pain Society Annual Meeting, Honolulu, HI
- 2012 Preclinical Headache Studies with Nitric Oxide: an Ideal Bedside to Bench Tool, First Joint Meeting of the International Association for the Study of Pain and the International Headache Society, Hamburg, Germany
- 2013 Meningeal pH and the pathophysiology of headache, Washington University, St. Louis, MO
- 2013 Meningeal TRP channels and the pathophysiology of headache, Washington Univ, St. Louis, MO
- 2013 Identification of novel headache targets using preclinical models, American Pain Society Meeting, New Orleans, LA
- 2013 Hyperalgesic Priming in the Trigeminal System Promotes Headache-Related Behavior Following Mild Changes in Meningeal pH, European Federation of IASP Chapters Meeting, Florence, Italy
- 2014 Meningeal nociceptive signaling and the pathophysiology of migraine, The University of Texas Health Science Center Houston, Houston, TX
- 2014 Emerging Concepts in Headache Research: a role for dural fibroblasts in headache pathophysiology, American Pain Society Meeting, Tampa, FL
- 2014 Central plasticity and priming in a rat model of headache, Society for Neuroscience Minisymposium, Washington, DC
- 2014 Meningeal nociceptive signaling and the pathophysiology of migraine, Baylor College of Dentistry, Dallas, TX
- 2015 Meningeal nociceptive signaling and the pathophysiology of migraine, Cincinnati Childrens Hospital/Univ of Cincinnati College of Medicine, Cincinnati, OH
- 2015 Meningeal afferent signaling and the pathophysiology of migraine, MD Anderson Cancer Center, Houston, TX
- 2015 Investigating migraine pathology using preclinical models in rodents, Center for Vital Longevity, Dallas, TX
- 2015 Meningeal fibroblasts and the pathophysiology of headache, Spring Pain Research Conference, Palm Springs, CA
- 2015 BDNF signaling in the brainstem mediates priming in preclinical headache models, American Pain Society Meeting, Palm Springs, CA
- 2015 Studying headache pathophysiology using rodent preclinical models, UT Southwestern Neurology Grand Rounds, Dallas, TX
- 2015 Meningeal afferent signaling and the pathophysiology of headache, University of Pittsburgh Medical Center/Pittsburgh Center for Pain Research, Pittsburgh, PA
- 2015 Investigating Headache Mechanisms Using Preclinical Rodent Models, Pain and Migraine Therapeutics Summit, Washington, DC
- 2015 Investigating Headache Mechanisms Using Preclinical Rodent Models, Texas Women's University, Denton, TX
- 2015 Migraine and brain/pain plasticity, Center for Brain Health, Dallas, TX
- 2016 Meningeal Afferent Signaling and Migraine Pathophysiology, University of Alabama at Birmingham, Birmingham, AL

- 2016 Meningeal Fibroblasts and the Pathophysiology of Headache, Winter Conference on Brain Research, Breckenridge, CO
- 2016 Prolactin and Sex Dependence of Migraine, University of Texas Board of Regents Meeting, UT Medical Branch, Galveston, TX
- 2016 Investigating Mechanisms of Headache Using Preclinical Rodent Behavioral Models, Anesthesiology and Critical Care, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
- 2016 Dural Stimulation With IL-6 Produces Sensitization That is Unique to the Dura, Pain Mechanisms and Therapeutics Conference, Taormina, Sicily, Italy
- 2016 IL-6 and BDNF Act on the Meningeal Afferent System to Promote Headache, Psychoneuroimmunology Research Society Conference, Brighton, England, UK
- 2017 Mechanisms of meningeal pain signaling and the pathophysiology of migraine, Duquesne University, Pittsburgh, PA
- 2017 Prolactin and migraine in females, Spring Pain Research Conference, Pittsburgh, PA
- 2017 Meningeal application of prolactin and CGRP produces female-specific migraine behavior in rodents, American Pain Society Annual Meeting, Pittsburgh, PA
- 2017 Meningeal afferent signaling and the pathophysiology of migraine, American Headache Society Annual Meeting, Boston, MA
- 2017 Prolactin and migraine in females, Texas Pain Research Consortium, Galveston, TX
- 2017 Peripheral Mechanisms of Migraine, International Headache Congress, Vancouver, BC
- 2017 Ion Channels and Migraine, International Headache Congress, Vancouver, BC
- 2018 Insights into migraine chronification from preclinical models, Alder Biopharmaceuticals, Bothell, WA
- 2018 Investigating migraine pathophysiology using preclinical animal models, Western University of the Health Sciences, Pomona, CA
- 2018 Probing migraine pathophysiology using preclinical models: roles of pH, prolactin, and priming, University of Iowa, Iowa City, IA
- 2018 Female-specific effects of prolactin and CGRP in preclinical models of migraine, Medical College of Wisconsin, Milwaukee, WI
- 2018 CGRP and prolactin signaling in the meninges produces female-specific migraine-related behavior in rodents. Organization for the Study of Sex Differences (OSSD) Annual Meeting. Atlanta, GA
- 2018 Female-specific meningeal nociception: potential mechanisms for sex differences in migraine. Pain Mechanisms and Therapeutics Conference. Taormina, Sicily, Italy
- 2018 Protease-activated receptors as novel therapeutic targets for migraine, University of Texas Health Science Center, San Antonio, TX
- 2019 The impact of sex and stress in preclinical models of migraine, University of Oklahoma Health Science Center, Oklahoma City, OK
- 2019 Sex differences in pain models, Association of Migraine Disorders Roundtable. Providence, RI
- 2019 Female-specific meningeal nociception: implications for migraine, American Pain Society Annual Meeting, Milwaukee, WI
- 2019 Female-specific meningeal nociception: potential mechanisms for sex differences in migraine, Gulf Coast Consortium for Translational Pain Research, Houston TX
- 2019 Sex differences in meningeal nociceptive mechanisms, American Headache Society Annual Meeting, Philadelphia, PA
- 2019 Molecular mechanisms of chronic pain, Health Women Chronic Pain Summit, Ellicott, MD
- 2019 The peripheral action of CGRP mAbs is the main reason for their efficacy, International Headache Congress, Dublin, Ireland
- 2019 Preclinical migraine models and female-specific mechanisms of headache, Neurology Grand Rounds, University of Texas Southwestern Medical Center, Dallas, TX
- 2020 Preclinical migraine models and the identification of sexually dimorphic (and monomorphic) mechanisms. [Pain Research Forum Webinar](#)

- 2020 New migraine therapeutic targets: the potential of ASICs and TRP channels, American Neurological Association Annual Meeting, Virtual
- 2020 Dural inflammatory priming in preclinical behavioral models, American Headache Society November Meeting, Virtual
- 2020 Recent findings from dural stimulation-based preclinical models, American Headache Society November Meeting, Virtual
- 2020 Investigating migraine pathophysiology using preclinical animal models, Oregon Health and Science University, Virtual
- 2021 Mechanistic studies of sex differences in preclinical pain models: from nociceptor to brain, American Headache Society, Virtual
- 2021 Sexually-dimorphic effects of prolactin in preclinical models of migraine, FASEB Growth Hormone and Prolactin Family in Biology and Disease Conference, Virtual
- 2021 Activation of TRPV4 on dural afferents produces headache behavior in a preclinical rat model, 20 Years of TRPV4 Research Conference, Virtual
- 2021 What animal models have taught us about the impact of hormones in migraine, International Headache Congress, Virtual
- 2021 Investigating migraine pathophysiology using preclinical animal models, Convestav University, Mexico, Virtual
- 2022 Animal models: setting the stage. International Conference on Advances in Migraine Sciences, Copenhagen, Denmark
- 2022 Peroxynitrite contributes to behavioral and cellular sensitization in a preclinical model of migraine. Gulf Coast Consortium Pain 2022 Virtual Seminar
- 2022 Sex-specific effects on trigeminal sensory processing. Teaching Course. Migraine Trust International Symposium. London, UK.
- 2022 Sex differences in preclinical migraine models. Migraine Trust International Symposium. London, UK.
- 2022 Sex-specific actions of multiple neuropeptides in preclinical migraine models. International Association for the Study of Pain Conference. Toronto, ON, Canada
- 2022 Peroxynitrite contributes to behavioral and cellular sensitization in a preclinical model of migraine. American Neurological Association Meeting. Chicago, IL.
- 2022 Peroxynitrite contributes to behavioral and cellular sensitization in a preclinical model of migraine. Pain Therapeutics Summit. Washington, DC.
- 2022 Preclinical headache models reveal sexual dimorphisms in mechanisms of neuronal activation and sensitization. Wolfson Card/Kings College London. Virtual Seminar.
- 2022 The role of non-CGRP neuropeptides in the pathophysiology of migraine. European Headache Congress. Vienna, Austria
- 2022 Mouse migraine models using dural stimulation and repetitive stress: acute effects and induction of priming. European Headache Congress. Vienna, Austria.

## US Patents

### Granted

- 2016 US9233085B1. Topical Application of AMPK Activators for Pharmacological Prevention of Chronic Pain. Theodore J Price, Gregory Dussor, Dipti Tillu, Bo Lian. Assigned to The University of Arizona Board of Regents on Behalf of the University of Arizona.
- 2019 US11306130B2. PAR3 Mimetic Peptides and Uses Thereof. Josef Vagner, Scott Boitano, Theodore Price, Gregory Dussor. Assigned to The University of Arizona Board of Regents on Behalf of the University of Arizona and to the University of Texas Board of Regents on Behalf of the University of Texas at Dallas.

### Pending

- 2021 US20210107909A1. Small Molecule Modulators of PAR2 and Uses Thereof. Josef Vagner, Scott Boitano, Theodore Price, Gregory Dussor. Assigned to The University of Arizona Board of Regents on Behalf of

the University of Arizona and to the University of Texas Board of Regents on Behalf of the University of Texas at Dallas.

2021 US20220110937A1. Regulation of eIF4E Activity for Migraine Therapy. Greg Dussor, Jacob Lackovic. Assigned to the University of Texas Board of Regents on Behalf of the University of Texas at Dallas.

## **External funding for original investigation**

### **Grants/contracts awarded**

#### **NIH**

Mechanism of Medication Overuse Headache/Chronic Migraine

Porreca- PI, Dussor- CoI

2010-2015, \$1,250,000 (total)

The Role of ASICs in Migraine Pathophysiology

Dussor- PI

2011-2016, \$1,093,750 (total)

AMPK activators for post-surgical pain

Price- PI, Dussor- CoI

2013-2017, \$800,000 (total)

Translation control of chronic pain

Price-PI, Dussor- CoI

2010-2019, \$1,100,000 (total)

Protease activated receptor type 2 targeting for migraine pain

Price-PI, Dussor-coPI

2017-2022, \$395,000 (per year)

Prolactin and female-specific mechanisms of migraine

Dussor-PI, Akopian- CoPI

2018-2023, \$480,572 (per year)

Peroxynitrite and migraine

Dussor- PI

2018-2020, \$150,000/year 1 (R21)

Non-metal PN scavenger/decomposition catalysts for treatment of migraine

Dussor- academic PI

2018-2020, \$133,093 (total, R41)

Development of selective calpain-1 inhibitors for pain

Dussor- academic PI, Nwankwo- company PI, Subcontract from 1910 Genetics

2021-2022, \$186,149 (total, R41)

Site-directed RNA editing of Nav1.7 as a novel analgesic

Dussor- UTD PI, Rosenthal- primary PI

2021-2026, \$6,789,851 total award (\$2,691,685 subcontract to UTD)

#### **University of Texas System**

Prolactin and sex dependence of migraine

Dussor-PI, Akopian-CoI  
2015-2017, \$100,000 (total)

### **University of Texas at Dallas**

Eugene McDermott Endowed Fellowship  
Dussor-PI  
2018- , \$17,000 (per year)

### **Private Foundations**

Cutaneous Nociceptors Respond to Mediators Released From Skin Cells  
Dussor-PI  
American Pain Society  
2009, \$20,000 (total)

Activation of Meningeal TRPA1 Channels Contribute to Migraine Headache  
Dussor- PI  
National Headache Foundation  
2012-2013, \$20,000 (total)

Afferent stimulation of the trigeminovascular system produces central sensitization via BDNF signaling in the  
nucleus caudalis  
Dussor- PI  
Migraine Research Foundation  
2014-2015, \$48,919 (total)

### **Industry**

Evaluation of AMG 2850 in a Preclinical Model of Migraine  
Dussor-PI  
Amgen  
2011-2013, \$100,000 (total)

H2S modulation of voltage-gated sodium channels  
Dussor-PI  
Sova Pharmaceuticals  
2013, \$20,000 (total)

Complex I inhibitors for the treatment of pain  
Price-PI, Dussor-CoPI  
Rigel Pharmaceuticals  
2014, \$70,000 (total)

CGRP monoclonal antibodies in stress-induced preclinical migraine models  
Dussor-PI  
Alder Biopharmaceuticals  
2018-2019, \$27,632 (total)

CGRP-based preclinical migraine studies  
Dussor-PI  
Teva Pharmaceuticals  
2019-2020, \$62,779 (total)

## Service

### National/International

- 2007- Reviewer, PAIN, The Journal of Pain, Molecular Pain, Neuropharmacology, British Journal of Pharmacology, Life Sciences, Cephalalgia, Headache, Anesthesiology, Journal of Neuroscience, Trends in Neurosciences, PLoS One, PLoS Biology
- 2009 Panelist, Successful Grant Writing and Funding Opportunities in Pain Research Workshop, American Pain Society 28<sup>th</sup> Annual Scientific Meeting
- 2011- NIH Special Emphasis Panel Study Sections 1/2011 and 1/2012
- 2011- Reviewer, French Agency of National Research, 2/2011 and 2/2012
- 2012 Grant Reviewer, Neurological Foundation of New Zealand
- 2012 Grant Reviewer, The University of Kansas Medical Center
- 2012-2013 Co-chair, Basic Science Special Interest Group, The American Pain Society
- 2012- Grant Reviewer, NIH fellowship "Sensory, Motor and Cognitive Neuroscience" F02B study section
- 2014 Grant Reviewer, Peer Reviewed Medical Research Program, Department of Defense
- 2014- Reviewer, NIH NST-1 and F02B Study Sections
- 2014- Ad Hoc Reviewer, NIH Somatosensory and Chemosensory Study Section
- 2014 Moderator, Paradigm Shifts in Migraine Science, Pain Research Forum Webinar
- 2014 Reviewer: Cephalalgia, Pain, Neuroscience, Journal of Pain, Journal of Neuroscience, Journal of Neurophysiology, European Journal of Pain, PLoS One, Experimental Neurology
- 2015 Reviewer: Cephalalgia, Pain, Neuroscience, Journal of Pain, Journal of Neuroscience, Journal of Neurophysiology, Neuropharmacology, European Journal of Pain, PLoS One, Neurobiology of Disease, British Journal of Clinical Pharmacology, Progress in Neurobiology
- 2015 Reviewer, NIH NST-1, F02B, SCS, and a SEP
- 2015 Reviewer, CNPq (Federal Funding agency of Brazil)
- 2015 Moderator, Targeting CGRP for Prevention of Migraine, Pain Research Forum Webinar
- 2016 Reviewer, NIH F02B, SCS
- 2016 Reviewer: Cephalalgia, PAIN, PAIN Reports, Anesthesiology, Neuropharmacology, J Neuroscience, PLoS One, Neuroscience, Eur J Neuroscience
- 2017 Reviewer, NIH SCS, SPS, ZNS1, F02B
- 2017 Reviewer, Migraine Research Foundation Annual Grant Awards
- 2017 Reviewer: Cephalalgia, PAIN, European Journal of Pain, Molecular Pain, British Journal of Pharmacology, Frontiers, Neuropharmacology, Neuroscience Letters, J Neuroscience, PLoS One, Neuroscience, Eur J Neuroscience, Scientific Reports
- 2018 Reviewer, NIH SPS, ZNS1 SRB-K
- 2018 Reviewer, Peer Reviewed Medical Research Program, Department of Defense
- 2018 Reviewer, Cephalalgia, Headache, Pain, Mol Pain, Neuroscience, Journal of Pain, Journal of Neuroscience, British Journal of Pharmacology, Neuropharmacology, European Journal of Pain, Pharmacological Reports, Trends in Pharmacological Sciences, PLoS One, Frontiers, eNeuro, Neuropharmacology, Progress in Neurobiology
- 2018 Reviewer, Migraine Research Foundation Annual Grant Awards
- 2018 Reviewer, Fondation Recherche Medicale, French Research Funding Agency Grant Applications
- 2018 Reviewer, Medical Research Council (UK) Grant Applications
- 2018 Reviewer, Kentucky Science and Engineering Foundation Grant Applications
- 2019 Reviewer, NIH ZRG1 F02B, PSPP Contract Reviews, ZTR1 CI4, NCATS HEAL, ZNS1 SRB, ZRG1 ETTN
- 2019 Reviewer, Migraine Research Foundation Annual Grant Awards
- 2019 Reviewer, Medical Research Council (UK) Grant Applications

- 2019 Reviewer, Consortium for Medical Marijuana Clinical Outcomes Proposals, State of Florida
- 2019 Reviewer, Cephalalgia, Headache, Pain, Mol Pain, Neuroscience, Journal of Pain, Journal of Neuroscience, British Journal of Pharmacology, Neuropharmacology, Neuroscience Letters, European Journal of Pain, PLoS One, Scientific Reports, Frontiers, eNeuro, Journal of Headache and Pain, Peptides, Expert Opinion on Therapeutic Targets, Philosophical Transactions of the Royal Society
- 2020 Reviewer, NIH, ZNS1 SRB-A (32) (EPPIC-Net), ZRG1 ETTN-A (50) (HEAL Biomarkers), CDMRP (Army), ZTR1 CI-4 (01), VA RR&D, ZNS1 SRB-X
- 2020 Reviewer, Cephalalgia, Neuropharmacology, J Neurosci, Eur J Neurosci, Pain, The Journal of Headache and Pain, Brain, eLife, Behavioral Brain Research, Brain Behavior & Immunity, Annals of Neurology
- 2020 Society for Neuroscience Trainee Professional Development Award Review Panel
- 2021 Publications Committee, American Headache Society
- 2021 Presidential Task Force on the future of the journals PAIN and PAIN Reports, International Association for the Study of Pain (IASP)
- 2021 Search Committee for Editor in Chief of the journal PAIN, International Association for the Study of Pain (IASP)
- 2021 Headache Research Priorities Working Group, American Headache Society
- 2021 Scientific Program Committee, International Headache Congress, International Headache Society
- 2021 Reviewer, Cephalalgia, Brain, J Neurosci, Molecular Pain, Pain, The Journal of Headache and Pain, Neuron, Proceedings of the National Academy of Sciences, Journal of the California Dental Association
- 2021 Reviewer, CDMRP Spinal cord injury disorders and neuropathic pain, NIH ETTN-H (11), ZAT1 JM (12), SRB-B (10)
- 2022 Reviewer, NIH ZAT1 SH(05)
- 2022 Reviewer, Brain Research UK grant program
- 2022 Search Committee for Editor-in-Chief of PAIN
- 2022 International Headache Society 2023 Annual Meeting Program Committee
- 2022 American Headache Society-NIH Headache Research Priorities Working Group
- 2022 American Headache Society Publications Committee
- 2022 International Association for the Study of Pain Publications Committee
- 2022 US Association for the Study of Pain Finance Committee
- 2022 External Committee Member, PhD Student Alex Serafini, Icahn School of Med, Mt Sinai, NYC

## **Departmental**

- 2009- Graduate Student Committees: Golriz Rad, Jiyang Ren, Brianna Paisley, Marina Asiedu, Dipti Tillu, Ramon Mercado, Alec Okun, Tiffany Robb, Bethany Remeniuk, Diana Meske, Pengfei Gu, Ji-Young Kim, Ashley Symons, Lauren Slosky, Brandon Thompson
- 2011- Executive Committee, Medical Pharmacology Graduate Program
- 2012 Medical Pharmacology Academic Program Review Self Study Committee
- 2012-2014 Director, Medical Pharmacology Graduate Program (Univ of Arizona)
- 2014- Dissertation committees: Carolina Burgos-Vega, Jamie Moy, Christopher de Solis, Candler Paige, Kufre Inyang, Stephanie Shiers, Thomas Szabo-Pardi, Katherine Garner, Jacob Lackovic, John Perish, Andy Wangzhou, Rahul Atmaraman, Hajira Elahi, DJ Naik, Moeno Kume, Amanda Avona, Hao-Ruei Mei, Jacqueline Newel, Lok Yue, Caeley Bryan, Eric David, Melissa Lenert, Sierra Rodriguez, Ya-Yu Hu, Veronica Hong, Juliet Mwirigi, Kathleen Domalogdog, Sankaranarayanan Ishwarya, Tarjani Shukla, Shiva Nematgorgani, Mandee Schaub, Hao-Ruei Mei
- 2020 Faculty Search Committee
- 2022 Faculty Search Committee

## **College/School**



2009- Interviewer, Medical Student Applicants  
2010- Mentor, Medical Student Research Program (MSRP); Students: Chris Murphy, Nick Jacobson  
2011- Dean's Graduate Program Advisory Committee  
2011- MD/PhD Admissions Committee  
2011- Honors and Awards Committee  
2012 Speaker, "Careers in Academia", COM Research Office Postdoc & Graduate Student Networking Lunch  
2012 Co-organizer, "Medical Careers in Industry- Medical Science Liaisons", COM Research Office Postdoc & Graduate Student Networking Lunch  
2012- Dean's Research Council  
2012- Honor Code Committee  
2014- Undergraduate Studies Committee  
2014-2015 Faculty Search Committee  
2015 Cognition and Neuroscience Recruiting Committee  
2015- Cognition and Neuroscience Admissions Committee  
2015-2016 BBS 2015-2016 Colloquium Organizing Committee  
2017 Cognition and Neuroscience Recruiting Committee  
2017 Chair, Promotion and Tenure Review Committee, Dr. Jonathan Ploski  
2018 Cognition and Neuroscience Admissions Committee  
2018 Academic Advisory Council  
2018 Faculty Workload Policy Advisory Committee  
2018 BBS Brain Matters Lecture: Pain Mechanisms – Hers vs His (Open to public)  
2019 Cognition and Neuroscience Admissions Committee  
2019-2020 Search Committee, Tenure-track faculty  
2020-2021 Chair, Search Committee, Tenure-track faculty  
2021 Behavioral and Brain Sciences Executive Committee  
2021 Developed a new web-based research match portal for undergraduate students to locate research opportunities  
2022 Mentor, Ensure Program

### **University Level**

2009- Graduate Student Committees: Milos Babic, Aimen Kasasbeh, Marina Cholanian, Stephanie Gage, Judith Tello, Reece Mazade  
2009 Panelist, Biomedical Engineering Workshop on New Laboratory Startup  
2010- Professional Science Masters GIDP Executive Committee  
2010- Neuroscience GIDP Admissions Committee  
2010- Neuroscience GIDP Seminar Series Speaker-Selection Committee  
2010 Neuroscience GIDP Academic Program Review Self Study Committee  
2010- Mentor, Minority Access to Research Careers and Initiative for Maximizing Student Diversity Programs  
2010- Mentor, Undergraduate Biology Research Program  
2011- Institutional Animal Care and Use Committee (IACUC)  
2012 Grant Reviewer, The University of Arizona Foundation, Faculty Small Grants Program  
2012- Undergraduate Biology Research Program (UBRP) Admissions Committee  
2014 Judge, Dallas area Society for Neuroscience, Student/Postdoctoral Fellow Travel Award Applications, June 25  
2014 Organized Dallas Area Pain Research Day between UTD and UT Arlington, July 28

- 2014 Scholar's Day Presentation, *Investigating the Pathophysiology of Headache Using Preclinical Models*, Nov 15
- 2016 Advisory Committee on Research
- 2017 President Richard Benson's Strategic Planning Committee, Research and Graduate Education Subcommittee
- 2017- Imaging Core Advisory Board
- 2017 Mentor, Clark Research Scholars Program, National Merit Research Scholars Program
- 2017 Advisory Committee on Research
- 2018 Search Committee, Office of Graduate Education Dean
- 2018 Advisory Committee on Research
- 2018 Admissions Committee, Clark Research Scholars Program
- 2018 Mentor, Clark Research Scholars Program
- 2019 Admissions Committee, Clark Research Scholars Program
- 2019 Mentor, Clark Research Scholars Program
- 2020 Research Advisory Committee
- 2021 Research Advisory Committee
- 2022 3+3+3 Committee on Updating Policies for Review of Administrators
- 2022 Lecture, Memories Matter Student Organization

#### **Other Service/Outreach**

- 2012 Pain Education Seminars, part of the State of Arizona Benefits Services Wellness Program Educational Series, 6 (1 hour) lectures to Arizona Departments of Transportation, Administration, and Economic Security Employees
- 2013 Seminar, Psychotropic Medications: Mechanisms of Action and Use in Children, Arizona Association of School Psychologists Annual Meeting, Phoenix, AZ (3 hours).
- 2014 Interviewed on KERA Think Radio Program, *Managing Chronic Pain*, (Outside press coverage), June 23
- 2014 Lecture on Pain to Senior Citizens, The Tradition Senior Living Community, Nov 6
- 2014 Moderator, Pain Research Forum Webinar, Paradigm Shifts in Migraine Science: New Opportunities for Therapy and Implications for Other Pain Disorders
- 2015 Interviewed on KERA Think Radio Program, *Mitigating the migraine*, September 17
- 2015 Moderator, Pain Research Forum Webinar, Targeting Calcitonin Gene-Related Peptide (CGRP) for Prevention of Migraine
- 2016 Interviewed on Pain Research Forum Relief Website, *A New View of Migraine* May 2016
- 2017 Interviewed on People Behind the Science Podcast ([www.peoplebehindthescience.com](http://www.peoplebehindthescience.com))
- 2017 Moderator, Pain Research Forum Webinar, Kappa Opioid Antagonists for Migraine and Pain
- 2017 Early Career Forum Mentor at American Pain Society Annual Meeting
- 2017 Interviewed on UTD Office of Research Website <https://research.utdallas.edu/blog/advancing-the-field-dr-dussor-tackles-migraine-research>
- 2017 Founded and became the first chair of the Headache Shared Interest Group (SIG) within the American Pain Society.
- 2018 Interview for Practical Pain Management website <https://www.practicalpainmanagement.com/meeting-summary/prolactin-linked-sex-differences-migraine>
- 2018 Early Career Forum Mentor at American Pain Society Annual Meeting
- 2019 Interview for the Pain Research Forum <https://www.painresearchforum.org/news/117584-calcitonin-gene-related-peptide-causes-migraine-pain-female-not-male-rodents>
- 2019 Early Career Forum Mentor at American Pain Society Annual Meeting
- 2019 Led collaborative initiative between American Headache Society and American Pain Society; Resulted in the first appearance of an American Headache Society Booth at an APS Meeting
- 2019 Lecture on Migraine to Senior Citizens, Highland Springs Senior Living Community
- 2019 Association of Migraine Disorders, Migraine Research Roundtable Member

- 2019 Association of Migraine Disorders, Migraine Science Collaborative Development Committee
- 2019 Presentation on Migraine Research to Dallas Friday Group Public Affairs Organization  
<https://www.dallasfridaygroup.com/>
- 2019 UTD Research Presentation and Laboratory Tour for Richardson, TX City Council Members
- 2020 Association of Migraine Disorders, Migraine Science Collaborative Research Advisory Committee
- 2021 Headache on the Hill, Alliance for Headache Disorders Advocacy
- 2021 Association of Migraine Disorders, Migraine Science Collaborative Research Advisory Committee
- 2022 Headache on the Hill, Alliance for Headache Disorders Advocacy
- 2022 UTD Laboratory Tours for multiple Texas State Congressional members
- 2022 Association of Migraine Disorders, Migraine Science Collaborative Research Advisory Committee
- 2022 UTD Laboratory Tours for Dallas Morning News staff and editors

## **NON-UNIVERSITY**

- 2015 Co-founder, CerSci Therapeutics
- 2015 Co-founder, Ted's Brain Science Products
- 2019 Co-founder, Doloromics
- 2019 Scientific Lead, Schedule 1 Therapeutics
- 2020 Co-founder, PARMedics