

# Anna M.W. Taylor, Ph.D.

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Department of Pharmacology  
University of Alberta  
9-47 MSB

Email: [ataylor1@ualberta.ca](mailto:ataylor1@ualberta.ca)  
Phone: (780) 492-3870  
Website: [taylorlaboratory.com](http://taylorlaboratory.com)

## EDUCATION

2006-2011 **Ph.D** (Pharmacology) McGill University, Montreal, Canada  
2001-2005 **Bachelor of Science** (Pharmacology) Queen's University, Kingston, Canada

## POSITIONS

2020 - 2025 **Canada Research Chair, Tier 2** Pain and Addiction  
2017 - **Assistant Professor**, Department of Pharmacology, U Alberta  
2019- **Adjunct Assistant Professor**, Department of Anesthesiology and Pain Medicine, U Alberta  
2016 - 2017 **Research Associate**, Department of Psychiatry, UC Los Angeles  
2011 – 2016 **Postdoctoral Scholar**, Department of Psychiatry, UC Los Angeles

## AWARDS AND DISTINCTIONS

2020 Canadian Pain Society Early Career Award  
2019 American College for Neuropsychopharmacology Editors' Early Career Award  
2016 American Pain Society Future Leaders in Pain Research Award  
2015 Cousins Center for Neuroimmunology Postdoctoral Award  
2013 Canadian Institutes for Health Research Postdoctoral Fellowship  
2008 Banting and Best Canada Graduate Scholarship Doctoral Award

## PROFESSIONAL AFFILIATION AND MEMBERSHIPS

2007-present Member, Society for Neuroscience  
2009-present Member, International Association for the Study of Pain  
2014-2019 Member, American Pain Society  
2010-present Member, Canadian Association for Neuroscience  
2010-present Member, Canadian Pain Society

## SCIENTIFIC SERVICE

### Societies and Organizations

2019-present Founding Member, Alberta Pain Research Network  
2019-present Scientific Program Committee, Canadian Pain Society Annual Meeting  
2019-2021 Scientific Program Committee, International Narcotic Research Conference  
2009-2010 Board Member, Quebec Network for Junior Pain Investigators

### Editorial Responsibilities

2019-2020 Associate Editor, Neurobiology of Pain  
2016-2017 Associate Editor, Frontiers in Psychiatry

### Manuscript Reviewer

Journal of Pain  
Pharmacology & Biological Psychiatry  
ACS Chemical Neuroscience  
Pain Research & Management

Psychopharmacology  
Progress in Neuropsychopharmacology & Biological Psychiatry  
Journal of Neuroscience Research  
PLOS One  
Frontiers in Psychiatry  
Heliyon  
Brain, Behaviour, and Immunology  
Pain

### **Grant Reviewer**

2020 Canadian Pain Society Trainee Research Awards  
2019-2020 Quebec Pain Research Network Pilot Program  
MITACS Accelerate Grant Program  
2019 American Pain Society Future Leaders in Pain Research Award

### **ADMINISTRATIVE ACTIVITIES**

#### **Faculty**

2020 Committee Member, Faculty Development Committee  
PhD Candidacy Examiner, Faculty of Rehab Medicine (Emma Schmidt, PI: Karim Fouad)  
2019 Review Committee, SMART (Sensory Motor Adaptive Rehab Therapy) Innovate Fund Fellowship Competition  
2019-Present Review Committee, FOMD Graduate Student Recruitment Competition  
2016-2017 Steward, Postdoctoral Union, UC Los Angeles  
2012-2017 Board Member, Postdoctoral Research and Postdoctoral Affairs

#### **Department**

2020 Committee Member, Department of Pharmacology Undergraduate Curriculum Review Committee  
2019 Member, Neuroscience and Mental Health Institute Graduate Studies Committee  
2019 Scientific adjudicator, Department of Pharmacology Research Day  
2019 Judge, Department of Anesthesiology Research Day

#### **Community Outreach**

2019 Presenter, Telus World of Science Dark Matters “Science of Drugs”  
2019 Presenter, NMHI Public Lecture, “What your gut is telling your brain”

### **GRANT SUPPORT**

#### **Current**

Canadian Pain Society Pfizer/CPS Early Career Award (Anna Taylor, PI)  
*Central amygdala inflammation driving multiple sclerosis related pain*  
Pilot grant examining the role of inflammation in mediating endogenous pain control in the amygdala in an animal model of multiple sclerosis  
\$50,000 (2020-2021)

Canada Foundation for Innovation John R. Evans Leaders Fund (Anna Taylor, PI)  
*Pain and Addiction Laboratory*  
Infrastructure support to establish a discovery-based biomedical laboratory examining the impact of chronic pain and opioid dependence on affective and motivational circuits in rodents

\$398,742 (2018-2021)

Natural Sciences and Engineering Research Council Discovery Grant (Anna Taylor, PI)

*Determining the biological basis for phenotypic sex differences in kappa opioid receptor function*

The goals of this research program is to establish two mouse genetic models (Four Core Genotype and XY\*) in order to dissect out the gonadal and sex chromosome influence mediating the sex difference kappa opioid receptor effects in rodents.

\$182,500 (2018-2023)

Atlas Growers (Anna Taylor and Bradley Kerr, Co-PIs)

*Assessing the efficacy of CB2 agonists to treat pain in a mouse model of MS*

The goal of this aim is to test the efficacy of cannabidiol on managing pain and motor symptoms associated with multiple sclerosis

\$82,000 (2019-2024)

University Hospital Foundation Kaye Fund Competition (Wasif Hussain, PI)

*Development of a multidisciplinary concussion clinic in order to improve patient outcomes and identify physiologic biomarkers for future interventions.*

This study is designed to develop and test educational materials in the treatment of concussion provided in the multidisciplinary concussion clinic. Throughout this process, blood and stool samples will be collected to search for potential diagnostic test and treatment targets. The goal of this study is to improve treatment outcomes of people with concussion and provide guidance to patients and healthcare providers.

\$125,000 (2019-2021)

Canadian Institutes for Health Research Project Grant (Bradley Kerr, PI)

*Understanding the contribution of the peripheral nervous system to central neuropathic pain*

The goal of this project is to examine cellular changes within the dorsal root ganglia that contribute to pain associated with multiple sclerosis.

\$669,375 (2019-2024)

### **Completed**

American Pain Society Future Leaders in Pain Research Award (Anna Taylor, PI)

*Revealing a gut-brain microbiome connection following chronic opioid treatment*

This award supported a pilot study examining the impact of opioids on the gut microbiota composition

\$USD25,000 (2016-2018)

National Institutes for Health K99/R00 Pathway to Independence Award (Anna Taylor, PI)

*Influence of chronic pain on mesolimbic dopamine activity and motivated behaviour*

This award provides support (salary and consumables) during the last two years of a postdoctoral fellowship, and the first 3 years of a faculty position. I declined the latter half of this award to accept a tenure track position in Canada. The goal of this project was to examine the impact of chronic pain on the mesolimbic dopamine system and relevant motivated behaviours.

\$USD 1,065,000 (2016-2018)

### **INTERRUPTIONS AND DELAYS**

Maternity and Parental Leave April 2018-January 2019

### **EDUCATIONAL RESPONSIBILITIES**

#### **Teaching**

Anna M.W. Taylor

- 2018-present Pharmacology 200 *Introduction to Pharmacology*  
Faculty of Science, University of Alberta
- 2019 Dentistry Course I *Introduction to Pharmacology*  
Faculty of Medicine & Dentistry, University of Alberta
- 2018-present Botany 380 *Plants and People* “Plant Derived Drugs to Manage Pain” (1 Lecture)  
Faculty of Science, University of Alberta
- 2018-present Pharmacology 302 *Research in Pharmacology*,  
Faculty of Science, University of Alberta
- 2014 Seminar in Addiction Psychiatry (Graduate Level) “Role of microglia in opioid dependence” (1 Lecture)  
Department of Psychiatry, UC Los Angeles
- 2012-2014 C177 *Drugs of Abuse: Translational Neurobiology*, “Pain and Opioid Addiction” (1 Lecture)  
Department of Psychiatry, UC Los Angeles

### **Graduate Student Supervision**

- 2020-present Christian Faig, Department of Pharmacology, University of Alberta
- 2020-present Olivia La Caprerra, Department of Pharmacology, University of Alberta
- 2018-present Zoe Dworsky-Fried, Department of Pharmacology, University of Alberta  
“Opioid analgesia and reward in multiple sclerosis”
- 2018-present Caylin Chadwick, Neuroscience and Mental Health Institute, University of Alberta  
“Kappa opioid receptor agonists to manage pain related to multiple sclerosis”

### **Undergraduate Student Supervision**

- 2020 Cara Gallo, University of Alberta  
Adam Wass, University of Alberta
- 2019- Christian Faig, University of Alberta
- 2019- Holly Vogel, University of Alberta
- 2017- Elizabeth Sugiarto, University of Alberta
- 2017-2019 Raj Bapuji, University of Alberta
- 2016-2017 Kevin Lee, UC Los Angeles

### **Trainee Awards And Honours**

- 2020 **Caylin Chadwick**, Alberta Innovates Studentship  
**Cara Gallo**, David and Beatrice Reidford Research Scholarship  
**Adam Wass**, NSERC Undergraduate Research Award
- 2019 **Zoe Dworsky-Fried**, CIHR Graduate Scholarship  
**Zoe Dworsky-Fried**, Best Poster Presentation, Pharmacology Research Day  
**Zoe Dworsky-Fried**, CIHR Canada Graduate Scholarship – Master’s  
**Caylin Chadwick**, Vice-president, NMHI Graduate Student Association  
**Elizabeth Sugiarto**, Best Poster Presentation, Pharmacology Research Day
- 2018 **Zoe Dworsky-Fried**, Walter H. Johns Graduate Fellowship  
**Zoe Dworsky-Fried**, Faculty of Medicine & Dentistry Graduate Student Recruitment Studentship  
**Zoe Dworsky-Fried**, Queen Elizabeth II Graduate Scholarship  
**Zoe Dworsky-Fried**, FOMD 75<sup>th</sup> Anniversary Graduate Student Award  
**Caylin Chadwick**, CIHR Canada Graduate Scholarship
- 2017 **Kevin Lee**, Deans Award, UC Los Angeles

### **Graduate Committees**

Anna M.W. Taylor

2019 Brian Marriott (PI: Jesse Jackson) Master's Thesis Committee, Department of Physiology, University of Alberta

### **Pedagogical Training**

2018 Graduate Student Mentorship Workshop, Faculty of Medicine & Dentistry, University of Alberta

2017 Introductory Teaching Workshop, Faculty of Medicine & Dentistry, University of Alberta  
An Introduction to Evidence-Based Undergraduate STEM Teaching, The Center for Integration of Research, Teaching, and Learning MOOC

2015 Bioscience Postdoc Educational Leadership Program (January –March 2015) UC Los Angeles

### **INVITED GUEST LECTURES**

2020 Neuroscience Seminar Series, The Medical University of South Carolina, **Charleston, USA**

Pharmacology Seminar Series, McGill University, **Montreal Canada** (online)

Neuroscience Seminar Series, University of Washington, **St Louis, USA** (online)

Dean's Lecture Series, University of Alberta, **Edmonton, Canada** (cancelled due to COVID19)

Kananaskis Inflammation Workshop, University of Calgary, **Banff, Canada**

Canadian Pain Society Annual Meeting, **Calgary Canada** (cancelled due to COVID19)

International Narcotic Research Conference, **Valencia Spain** (cancelled due to COVID19)

2019 Anesthesiology Research Day, Department of Anesthesiology, University of Alberta, **Edmonton, Canada**

Grand Rounds, Department of Psychiatry, University of Alberta, **Edmonton, Canada**

International Narcotic Research Conference, **New York City, USA**

Canadian Society of Pharmacology and Therapeutics Annual Meeting, **Calgary, Canada**

Seminar Series, University of Alberta, Department of Medical Genetics, **Edmonton, Canada**

2018 Seminar Series, University of Calgary, Veterinary Medicine and Hotchkiss Brain Institute, **Calgary, Canada**

Seminar Series, Tulane Brain Institute, Tulane University, **New Orleans, USA**

Research Symposium on Opioids and Addiction, Neurochemical Research Unit, University of Alberta, **Edmonton, Canada**

Society for Neuroscience Annual Meeting, **San Diego, USA**

American Pain Society Summit, **Anaheim, USA**

Winter Conference on Brain Research, **Whistler, Canada**

2017 Neuroscience and Mental Health Institute Seminar Series, University of Alberta, **Edmonton, Canada**

Pain Interest Group Seminar Series, University of Alberta, **Edmonton, Canada**

Neuroscience and Mental Health Institute Welcome Seminar, University of Alberta, **Edmonton, Canada**

2016 Seminar, Department of Neuroscience, Carleton University, **Ottawa, Canada**

Seminar, Department Physiologie-Pharmacologie, Sherbrooke University, **Sherbrooke, Canada**

Seminar, Division of Biomedical Sciences, Memorial University, **St.John's, Canada**

Seminar Series, Cousins Center for Psychoneuroimmunology, UC Los Angeles, **Los Angeles, USA**

10<sup>th</sup> Drug Abuse Research Symposium, Charles Drew University, **Los Angeles, USA.**

2015 Seminar, Center for Neuroscience and Behavior, Miami University, **Miami (Ohio), USA**

Integrated Center for Addictions Seminar, UC Los Angeles, **Los Angeles, USA**

Substance Abuse Research Consortium, UC Los Angeles, **Los Angeles, USA**

Department of Anesthesiology and Perioperative Medicine Research Day, UC Irvine, **Irvine, USA**

2014 Center for Ulcer Research and Education Lecture Series, Digestive Diseases Research Center, UC Los Angeles, **Los Angeles, USA**

2012 Department of Psychiatry and Neuroscience, Laval University, **Quebec City, Canada**

## **MEDIA**

2020 Momentum Magazine, University of Alberta, "Cannabis"  
Pain Research Forum Webinar, "Opioids and the Gut Microbiome"  
New Trail, "When your brain runs away with your thoughts"

2019 The Edmonton Journal, Dec 11, "UofA attracts donation for cannabis research"  
CityTV News, Dec 06, "Cannabinoids and Pain"

Nature Outlook, Sep 11, "Unravelling the mystery of opioid addiction"

2018 CityTV 6pm News Segment, Nov 26 "Feel Good Deals"

2018 Folio FOMD News "Dopamine and Black Friday"

2018 Pain Research Forum, Nov 26 "Symptoms of opioid dependence linked to gut microbiota"

2018 Nature Medicine News, Oct 30 "Gutted about opioids"

## **PEER-REVIEWED ARTICLES**

\*trainees

2020 Huang A, Taylor AMW, Ghogha A, Pribadi M, Wang Q, Tanya K, Cahill CM, Coppola G, Evans CJ. (2020) "Genetic and functional analysis of a Pacific Hagfish opioid system". **Journal of Neuroscience Research**, *in press*

- Parker KE, Sugiarto E\*, Taylor AMW, Pradhan AA, Al-Hasani R. (2020) "Pain, motivation, migraine and the microbiome: New frontiers for opioid systems and disease" **Molecular Pharmacology**, *in press*
- Dworsky-Fried Z\*, Kerr B, Taylor AMW. (2020) "Microbes, Microglia, and Pain" **Neurobiology of Pain**, *in press*
- 2019 Liu S, Pickens S, Burma N, Ibarra-Lecue I, Yang H, Xue L, Cook C, Hakimian J, Severino J, Severino A, Luetow L, Komarek K, Taylor A, Olmstead MC, Carroll FI, Bass C, Andrews A, Walwyn W, Trang T, Evans E, Leslie F, Cahill CM. (2019) "Kappa opioid receptors drive a tonic aversive component of chronic pain". **J Neurosci**. 39(21):4162-4178.
- 2018 Lee K\*, Vuong H, Nusbaum D, Hsiao E, Evans C, Taylor AMW. (2018) The gut microbiota mediates reward and sensory responses associated with regimen-selective morphine dependence. **Neuropsychopharmacology** 43(13):2606-2614.
- Yu X, Taylor AMW, Lu T-Y, Diaz-Castro B, Golshani P, Evans CJ, Khakh BS. (2018) "Reducing Astrocyte Calcium Signaling In Vivo Alters Striatal Microcircuits and Causes Repetitive Behavior" **Neuron**, 99(6):1170-1187.
- 2017 Taylor AMW, Mehrabani, S, Liu, S, Taylor AJ, Cahill, CM (2017) Topography of microglial activation in sensory and affect related brain regions in a mouse model of chronic pain. **J Neurosci Res**. 95(6):1330-1335.
- Taylor AMW (2017) Corticolimbic circuitry in the modulation of chronic pain and substance abuse. **Prog Neuropsychopharmacol Biol Psychiatry**. Review. 87B:159-332.
- Cahill CM and Taylor AMW. (2017) Neuroinflammation – A co-occurring phenomenon linking chronic pain and opioid dependence. **Curr Opin Behav Sci** 13:171-177. Review.
- 2016 Cahill CM, Walwyn W, Taylor AMW, Pradhan AAA, Evans CJ. (2016) Allostatic mechanisms of opioid tolerance beyond desensitization and downregulation. **Trends Pharmacol Sci** 37(11):963-976. Review.
- Taylor AMW\*, Becker S, Schweinhardt, P, Cahill CM. (2016) Mesolimbic dopamine signaling in acute and chronic pain: implications for motivation, analgesia and addiction. **Pain** 157(6):1194-1198. Review.
- Taylor AMW, Castonguay A, Ghogha A, Vayssiere P, Pradhan AAA, Xue L, Wu J, Levitt P, De Koninck Y, Evans CJ, Cahill CM. (2016) Neuroimmune regulation of GABAergic neurons within the ventral tegmental area during withdrawal from chronic morphine. **Neuropsychopharmacology** 41(4): 949-959.
- 2015 Taylor AM, Castonguay A, Taylor, AJ, Murphy NP, Ghogha A, Cook C, Xue L, Olmstead MC, De Koninck Y, Evans CJ, Cahill CM (2015). Microglia disrupt mesolimbic reward circuitry in chronic pain. **J Neurosci** 35(22):8442-8450
- Charrua A, Pinto R, Taylor A, Canelas A, Ribeiro-da-Silva A, Cruz CD, Birder LA, Cruz F (2015) Can the adrenergic system be implicated in the pathophysiology of bladder pain syndrome/interstitial cystitis? A clinical and experimental study. **Neurol Urodyn**. 34(5): 489-496.

2014 Taylor AMW, Roberts KW, Pradhan AA, Walwyn W, Lutfy K, Carroll FI, Cahill CM, Evans CJ (2014). Kappa opioid receptor-mediated analgesia is blocked by a delta opioid receptor agonist. **Br J Pharmacol**, 172(2):e102334

Taylor AMW, Murphy NP, Evans CJ, Cahill CM (2014) Correlation between ventral striatal catecholamine content and nociceptive thresholds in neuropathic mice. **J Pain** 15(8): 878-885.

Cahill CM, Taylor AM, Cook C, Ong E, Moron JA, Evans CJ (2014). Does the kappa opioid receptor system contribute to pain aversion? **Front Pharmacol** 5:253. *Review*.

2013 Taylor, AMW. (2013) Pain and reward: How the affective-motivational system is perturbed in chronic pain. **Postdoc Res J**. Vol 1, No.2. *Review*

2012 Taylor, AMW and Ribeiro-da-Silva A. (2012). Consequences of the ablation of non-peptidergic afferents in an animal model of trigeminal neuropathic pain. **Pain**. 153: 1311-1319.

2011 Farmer, MA, Taylor, AMW, Bailey, AL, McIntyre, LC, Milagrosa, ZE, Crissman, HP, Bennet, GJ, Ribeiro-da-Silva, A, Binik, TM, and Mogil, JS (2011) Recurrent vulvovaginal candidiasis as an etiology of provoked vestibulodynia. **Science Transl Med** 101ra91.

Taylor, AMW and Ribeiro-da-Silva, A. (2011). GDNF levels in the lower lip skin in rat model of trigeminal neuropathic pain: Implications for non-peptidergic fiber re-innervation and parasympathetic sprouting. **Pain**. 52 (7): 1502-1510.

2009 Taylor, AMW, Peleshok, JC, and Ribeiro-da-Silva, A. (2009) Distribution of P2X3-immunoreactive fibers in hairy and glabrous skin of the rat. **J Comp Neurol**. (514):555-566.

Riedl, MS, Schnell, SA, Overland, AC, Chabot-Dore, AJ, Taylor, AMW, Ribeiro-da-Silva, A, Elde, RP, Wilcox, GL, and Stone, LS. (2009) Coexpression of alpha2a adrenergic and delta opioid receptors in substance P-Containing terminals in rat dorsal horn. **J Comp Neurol**. (513) 385-398.

2007 Holdridge, S.C., Armstrong, S.A., Taylor, AMW, and Cahill, C.M. (2007) Behavioral and morphological evidence for the involvement of glial cell activation of delta opioid receptor function: implications for the development of opioid tolerance. **Mol Pain**. 3:7.

### Commentaries

2019 Dworsky-Fried Z\* and Taylor AMW (2019). "Pain is but a memory" **Lab Animal** *in press*

2011 Cahill, CM and Taylor, AMW (2011) A piece of the puzzle is revealed for delta opioid analgesia. **Pain**. 152 (6): 1217-1218.

2008 Taylor, Anna. (March 2008) "Mirroring Minds" Le Panoptique.  
<http://www.lepanoptique.com/sections/sciences/mirroring-minds/>

### Abstracts

\* trainees

2020 Dworsky-Fried Z\*, Kerr B, Taylor AMW. "Amygdala control of EAE related pain", International Narcotic Research Conference, Valencia, Spain (cancelled due to COVID19)

Chadwick C\*, Dworsky-Fried Z\*, Kerr B, Taylor AMW. "Kappa opioid receptor alterations in an animal model of multiple sclerosis", International Association for the Study of Pain, Amsterdam, Netherlands (cancelled due to COVID19)



Dworsky-Fried Z\*, Kerr, B, Taylor AMW. “Central amygdala inflammation and chronic pain”, Canadian Pain Society, Calgary, Canada (cancelled due to COVID19)

Chadwick C\*, Dworsky-Fried Z\*, Kerr B, Taylor AMW “Kappa opioid system contributions to multiple sclerosis pain”, Canadian Pain Society, Calgary Canada (cancelled due to COVID19)

2019 Dworsky-Fried Z\*, Kerr B, Taylor AMW. “Male specific microglial activation in the amygdala of mice with EAE” MS Symposium, Calgary, Canada

Chadwick C\*, Kerr BJ, Taylor AMW “The effect of acute and chronic kappa opioid receptor agonism on pain behaviours and disease measures in experimental autoimmune encephalomyelitis”, MS Symposium, Calgary Canada

Dworsky-Fried Z\*, Kerr BJ, Taylor AMW “Impaired morphine reward and analgesia in a mouse model of MS” MS Connect Symposium, Banff, Canada

Taylor AMW, Lee K\*, Vuong H, Nusbaum D, Hsiao E, Evans CJ. “Revealing microbiome-gut-brain interactions in opioid dependence”, American Pain Society Annual Meeting, April 4-6, Milwaukee, USA

Taylor AMW “Opioid-induced gut microbiota disruption induced via a gut motility mechanism”, Spring Pain Meeting, April 2-3, Milwaukee, USA **\*session chair and organizer**

2017 Taylor AMW, Lee K\*, Nusbaum D, Hsiao E, Evans CJ. “Revealing microbiome-gut-brain interactions in opioid dependence” Canadian Neuroscience Annual Meeting, May 28-31, Montreal, Canada

Liu S, Pickens S, Taylor AMW, Xue L, Williams P, Wu J, Carroll FI, Levitt P, Leslie F, Cahill CM. “Kappa opioid receptor up-regulation contributes to mood and reward dysregulation in neuropathic pain” International Narcotic Research Conference, Jul 9-14, Chicago, USA

2016 Taylor AMW, Mehrabani S, Liu S, Taylor A, Evans C, Cahill C. “Topography of microglial activation in pain and affect related brain regions in chronic pain” Society for Neuroscience Annual Meeting, Nov 5-8, 2016, San Diego, USA

Lee K\*, Bridges S, Cahill C, Evans C, Taylor AMW “Intermittent versus sustained morphine treatment regimens on molecular and behavioral markers of withdrawal” Society for Neuroscience Annual Meeting, Nov 5-8, 2016, San Diego, USA

Evans C, Taylor AMW, Lee K\*, Bridges S, Cahill C. “Intermittent versus sustained morphine treatment regimens on molecular and behavioral markers of withdrawal” International Narcotic Research Conference, July 10-14, 2016, Bath, UK

Pickens S, Chin J, Ong E, Mehrabani S, Taylor AMW, Cahill C. “No sexual dimorphism in gliosis-induced modulation of reward in opioid-dependent states”, International Narcotic Research Conference, July 10-14 2016, Bath, UK

Taylor AMW. “Neuroimmune regulation of motivational systems in chronic pain”, American Pain Society Annual Meeting, May 11-14 2016, Austin, USA

2015 Taylor AMW. “(+) naloxone and microglia: implications for opioids tolerance, hyperalgesia and reward”, Winter Conference on Brain Research, Jan 24-29 2015, Snow Bird, Utah

Taylor AMW, Ghogha A, Cook C, King C, Evans CJ, Cahill CM. "Opioids and microglia: a murine-derived microglia stable cell line study", American Pain Society Annual Meeting, May 13-16, Palm Springs, USA

Taylor AMW, Arnold A, Cahill CM, Evans CJ. "Kappa-opioid mediated antinociception can be stress-mediated and some agonists show marked sex differences", Kappa Therapeutic Conference, Apr 20-24, Chapel Hill, USA

2014 Taylor, AMW, Castonguay A, Ghogha A, De Koninck Y, Evans CJ, Cahill, CM. "Neuropathic pain modulates the mesolimbic dopamine system to interfere with opioid-stimulated dopamine release in the ventral striatum", International Association for the Study of Pain Annual Meeting, Oct 6-11, Buenos Aires, Argentina

Taylor, AMW, Castonguay A, Ghogha A, Vayssiere P, De Koninck Y, Evans CJ, Cahill, CM. "Opioid dependence disrupts cocaine reward by disrupting GABAergic chloride homeostasis mediated by activated microglia", World Congress of Neuropharmacology, June 22-26, Vancouver, Canada

Taylor, AMW, Castonguay A, Ghogha A, Murphy NP, De Koninck Y, Evans CJ, Cahill CM. "Chronic pain leads to disruption of mesolimbic dopamine function in response to opioids", Keystone Symposia, June 15-20, Keystone, USA

Taylor, AMW. "Neuropathic pain modulates midbrain dopamine release", International Narcotic Research Conference, July 13-18, Kansas City, USA

2013 Taylor, AMW. "Opioid reward switches to a dopamine dependent process in chronic pain", International Congress on Neuropathic Pain, May 23-26, Toronto, Canada

Taylor, AMW, Castonguay A, Taylor AJ, Ghogha A, Murphy NP, De Koninck Y, Evans CJ, Cahill CM. "Chronic pain perturbs the mesolimbic dopamine system and interferes with opioid reward", Society for Neuroscience Annual Meeting, Nov 9-13, San Diego, USA

Evans CJ, Taylor AMW, Roberts KW, Pradhan AA, Walwyn W, Lutfy K, Carroll FI, Cahill CM. "The kappa agonist, U50-488H, mediates analgesia via an anxiogenic effect", Society for Neuroscience Annual Meeting, Nov 9-13, San Diego, USA

Cahill CM, Taylor AMW, Castonguay A, Ghogha A, Vayssiere P, Pradhan AA, De Koninck Y, Evans CJ. "Opioid dependence disrupts cocaine reward by disrupting GABA-ergic chloride homeostasis mediated by activated microglia", Society for Neuroscience Annual Meeting, Nov 9-13, San Diego, USA

2012 Taylor, AMW, Vayssiere, P, Evans, CJ, and Cahill, CM. "Opioid reward switches to a dopamine dependent process in a chronic pain state". Society for Neuroscience Annual Meeting, Oct 13-17, New Orleans, USA

Taylor, AMW, Vayssiere, P, Evans, CJ, and Cahill, CM. "Opioid reward switches to a dopamine dependent process in a chronic pain state", International Association for the Study of Pain International Meeting, Aug 27-31, Milan, Italy

Taylor, AMW, Vayssiere, P, Evans, CJ, and Cahill, CM. "Microglial activation is essential for opioid but not psychostimulant reward in drug dependent states", International Narcotic Research Conference, July 15-20, Kansas City, USA

- 2012 Taylor, AMW, Evans, CJ, and Cahill, CM. "Activated glia in pain affect and opioid reward in chronic pain", Winter Conference on Brain Research, Jan 21-26, Snow Bird, Utah
- 2010 Taylor, AMW and Ribeiro-da-Silva, A. "Exploring the mechanisms of trigeminal neuropathic pain using an IB4-Saporin model", International Association for the Study of Pain International Meeting, Aug 29- Sep 2, Montreal, Canada
- 2009 Taylor, AMW and Ribeiro-da-Silva, A. "Changes in central and peripheral terminals of sensory fibers innervating the lower lip skin following sensory nerve lesion", Society for Neuroscience Annual Meeting, Oct 17-21, Chicago, USA
- 2008 Taylor, AMW, Longo, G., and Ribeiro-da-Silva, A. "Sensory and autonomic nerve fibre plasticity in skin of the rat lower lip: Implications for neuropathic pain", Society for Neuroscience Annual Meeting, Nov 15-19, Washington, USA
- Taylor, AMW, Longo, G. and Ribeiro-da-Silva, A. "Sensory and autonomic fibre plasticity in the rat lower lip skin following sensory nerve lesion", International Association for the Study of Pain Annual Meeting, Aug 17-22, Glasgow, Scotland
- Farmer, M, Binik, Y M, Taylor, AMW, MacIntyre, LC, Bennett, GW and Mogil, JS. "Behavioral and histological characterization of a mouse model of provoked vestibulodynia following recurrent vulvovaginal candidiasis", Canadian Sex Research Forum, Montreal, Canada
- Taylor, AMW, Longo, G, and Ribeiro-da-Silva, A. "Changes in sensory and autonomic fiber innervation in the rat lower lip skin following a sensory nerve lesion", Canadian Association for the Study of Neuroscience Annual Meeting, May 25-28, Montreal, Canada
- 2007 Taylor, AMW. "Non-Peptidergic and parasympathetic fibre plasticity in the lower lip skin following sensory nerve lesion", Society for Neuroscience Annual Meeting, Nov 3-7, San Diego, USA