

Anna M.W. Taylor, Ph.D.

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9-47 MSB

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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

2021 Peter Loughheed Research Award
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
2020-present Awards Co-Chair, Canadian Pain Society
2018-present Alberta MS Society, Board Member
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
Agence Nationale de la Recherche (France)
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 Institutes for Health Research Project Grant (Anna Taylor, PI)

Central amygdala inflammation and chronic pain

This grant examines the role of inflammation in mediating endogenous pain control in the amygdala in an animal model of multiple sclerosis

\$799,426 (2021-2026)

Canadian Research Initiative in Substance Misuse Seed Grant (Anna Taylor, PI)

Preclinical investigation for the use of brexipiprazole for opioid use disorder

This grant examines whether the partial dopamine agonist, brexipiprazole, is effective at mitigating symptoms of opioid withdrawal in an animal model of opioid use disorder.

\$15,000 (2021-2022)

Peter Lougheed Research Award (Anna Taylor, PI)

Central amygdala inflammation and chronic pain

The goal of this research program is to determine the causal mechanism impacting central amygdala signaling in an animal model of autoimmune-associated chronic pain.

\$40,000 (2021-2022)

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)

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

Maternity and Parental Leave

August 2021-February 2022

Anna M.W. Taylor

EDUCATIONAL RESPONSIBILITIES

Teaching

- 2018-present Pharmacology 200 *Introduction to Pharmacology*, Course Coordinator and Lecturer
Faculty of Science, University of Alberta
- 2019 Dentistry Course I *Introduction to Pharmacology*, Lecturer
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

Current

- 2020-present Christian Faig, Department of Pharmacology, University of Alberta
- 2021-present Julia Nichols, Department of Pharmacology, University of Alberta
- 2021-present Adam Wass, Neuroscience and Mental Health Institute, University of Alberta
“Central amygdala control of chronic pain”
- 2020-present Olivia Lacaprra, (Co-supervisor) Neuroscience and Mental Health Institute,
University of Alberta
“Peripheral inflammation in central inflammatory pain”

Graduated

- 2018-2020 Zoe Dworsky-Fried, Masters of Science, Department of Pharmacology, University of Alberta
“Opioid analgesia and reward in multiple sclerosis”
Current Position: Medical School University of Alberta
- 2018-2021 Caylin Chadwick, Neuroscience and Mental Health Institute, University of Alberta
“Kappa opioid receptor agonists to manage pain related to multiple sclerosis”
Current Position: Taylor Lab Technician

Undergraduate Student Supervision

- 2020-2020 Cara Gallo, University of Alberta
- 2020-2021 Adam Wass, University of Alberta
- 2019-2020 Christian Faig, University of Alberta
- 2019-2021 Holly Vogel, University of Alberta
- 2017-2019 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

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- 2018 **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
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 75th Anniversary Graduate Student Award
Caylin Chadwick, CIHR Canada Graduate Scholarship
- 2017 **Kevin Lee**, Deans Award, UC Los Angeles

Graduate Committees

- 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, University of Pittsburgh, **Pittsburgh, USA** (online)
- Neuroscience Seminar Series, Emory University, **Atlanta, USA** (online)
- Neuroscience Seminar Series, The Medical University of South Carolina, **Charleston, USA** (online)
- 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**
 10th 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**

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

- 2021 Dworsky-Fried Z*, Chadwick C*, Kerr BJ, Taylor AMW (2021) “Multiple sclerosis and the endogenous opioid system: **Frontiers in Neuroscience**, *in press*
- Dworsky-Fried Z*, Faig CA*, Vogel HA*, Kerr BJ, Taylor AMW (2021) “Central amygdala inflammation drives pain hypersensitivity and attenuates morphine analgesia in experimental autoimmune encephalomyelitis” **Pain**, *in press*
- 2020 Taylor AMW, Chadwick C*, Mehrabani S, Hrnčir H, Arnold A, Evans CJ. (2020) “Sex differences in kappa opioid receptor anti-nociception is influenced by the number of X chromosomes in mouse” **Journal of Neuroscience Research**, doi: 10.1002/jnr.24704
- Severino A, Mittal N, Hakimian N, Velarde N, Minasyan A, Alberta R, Torres C, Romaneschi N, Johnston C, Tiwari S, Lee A, Taylor AMW, Gaveriaux-Ruff C, Kieffer BL, Evans CJ, Cahill CM, Walwyn WM. (2020) Mu opioid receptors on striatal-centric neuronal populations mediate distinct aspects of opioid reward-related behaviors. **eNeuro**, *in press*
- 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 Review*
- Dworsky-Fried Z*, Kerr B, Taylor AMW. (2020) “Microbes, Microglia, and Pain” **Neurobiology of Pain**, 7:100045 *Review*
- 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. **NeuroUrol 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 in 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