

## Steven G. Kinsey

Professor of Nursing

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### SCIENTIFIC INTERESTS

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I am an educator and researcher with specialized training in pain, neuroscience, immunology, and pharmacology. My lab uses interdisciplinary tools, including pharmacological and genetic experimental animal models to study the opioid and endocannabinoid systems and how they control pain, inflammation, and the stress response. My goal, as principal investigator and mentor of a diverse team of graduate and undergraduate students, is to develop interventions to improve pain management and reduce human suffering.

### EDUCATION

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PhD	The Ohio State University. Behavioral Neuroscience.	March, 2007
MA	The Ohio State University. Behavioral Neuroscience.	June, 2003
BS	University of California, Davis. Psychology	August, 1999
AA	Diablo Valley College. Pleasant Hill, California.	June, 1997

### PROFESSIONAL APPOINTMENTS

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2021 -	Professor (tenured). School of Nursing, University of Connecticut
2020 -	Director. <a href="#">Center for Advancement in Managing Pain</a> , University of Connecticut
2020 - 2021	Associate Professor (tenured). School of Nursing, University of Connecticut
2021 -	Affiliate Associate Professor, Department of Pharmaceutical Sciences
2020 -	Affiliate Associate Professor, Department of Psychological Sciences
2018 - 2019	Adjunct Associate Professor, Department of Neuroscience, West Virginia University
2017 - 2019	Associate Professor (tenured). Department of Psychology, West Virginia University
2011 - 2017	Assistant Professor. Department of Psychology, West Virginia University
2007 - 2011	Postdoctoral Research Fellow. Department of Pharmacology and Toxicology, Virginia Commonwealth University
2007	Postdoctoral Researcher. Institute for Behavioral Medicine Research, The Ohio State University
2007	Lecturer. Psychology, The Ohio State University
2003 - 2004	Graduate Teaching Associate. Psychology, The Ohio State University
2002 - 2007	Graduate Research Associate. The Ohio State University
2001 - 2002	Distinguished University Fellow. The Ohio State University
1999 - 2001	Laboratory Assistant II. California National Primate Research Center, University of California, Davis

### AWARDS & HONORS

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2022	Friend of Nursing Award, Sigma Theta Tau, Mu Chapter
2019	Eberly College Outstanding Researcher Award, West Virginia University

2011 Postdoctoral Best Abstract Award. Integrative Systems, Translational and Clinical Pharmacology, American Society for Pharmacology and Experimental Therapeutics  
 2010 Postdoctoral Trainee Chapter Travel Award. Society for Neuroscience (SfN)  
 2010 Postdoctoral Travel Award, Central Virginia Chapter of the SfN (declined)  
 2010 Trainee Scholarship. Psychoneuroimmunology Research Society  
 2008 Scientific Achievement Award. International Cannabinoid Research Society  
 2008 Scholars Award. Psychoneuroimmunology Research Society  
 2007 Meritorious Teaching Award. The Ohio State University  
 2006 Edward J. Ray Award for Scholarship and Service. The Ohio State University  
 2005 Certificate of Training in the Teaching of Psychology. The Ohio State University  
 2005 Edward J. Ray Award for Scholarship and Service. The Ohio State University  
 2001 Distinguished University Fellowship. The Ohio State University  
 2001 – 2005 Departmental Fellowship (Psychology). The Ohio State University

## RESEARCH SUPPORT

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### Active:

R13 DA016280	Bradshaw (PI)	Role: Co-I	8/15/2021 - 4/30/2026
"Annual Cannabinoid Research Society Symposium on the Cannabinoids"			
R21 DA052690	Kinsey (PI)		7/1/2021 - 6/30/2024
"Stemming the opioid-induced pain cascade via cannabinoid modulation"			
R01 DA048153	Siderovski (PI)	Role: Co-I	2/15/2021 - 12/31/2025
"The role of RGS12 in differential modulation of G protein versus beta-arrestin signaling downstream of the kappa opioid receptor"			
R01 AT010773	Wiley (PI)	Role: Co-I	9/15/2019 – 8/31/2024
"Minor Cannabinoids and Terpenes: Preclinical Evaluation as Analgesics"			
F31 F31NR019939	Eze (PI)	Role: Sponsor	2/25/2022 – 3/30/2024
"Identifying Differential Psychosocial and Neurobiological Risk Factors of the Transition from Acute to Chronic Pain in Black and Non-Hispanic White Adults"			
UConn School of Nursing Dean's Seed Grant		Casavant (PI) Role:Co-I	7/1/2024 – 6/30-2025
"Assessing Attitudes of Providers and Persons of Childbearing Age toward Cannabis Product Use During Pregnancy"			

### Pending:

R01 DA056359	Siderovski (PI)	Role: Co-I	7/1/2024 - 6/30/2028
"High-throughput discovery and validation of inhibitors of a key kappa opioid receptor regulator-RGS12"			
F31 AT011474	Vanegas (PI)	Role: Sponsor	8/1/2024 - 7/31/2025
"Assessing the analgesic and anti-inflammatory effects of minor cannabinoids and terpenes"			

### Completed:

R01 DA039942	Kinsey (PI)		04/15/2016 – 01/31/2023
"CB1 Allosteric Modulators: Molecular, Cellular and In Vivo Pharmacology"			
R03 DA039335	Kinsey (PI)		4/1/2018 – 3/31/2022
"Reducing the deleterious effects of synthetic cannabinoid withdrawal on emotionality & motivation"			
F30 DA044711	Kaski (PI)	Role: Co-sponsor	7/1/2018 – 6/30/2022
"Role of regulator of G-protein signaling-12 (RGS12) in morphine modulated behavior"			

U54 GM104942	Hodder (PI)	Role: Co-I of pilot	10/1/2019 – 12/31/2020
WV Clinical and Translational Science Institute Launch Grant			
“Anti-allodynic effects of TRPM8 antagonists”			
U54 GM104942	Hodder (PI)	Role: PI of pilot	8/1/2019 – 12/31/2019
WV Clinical and Translational Science Institute Pilot Grant			
“Preventing chronic pain and inflammation caused by opioid use”			
F31 DA043331	Gross (PI)	Role: Co-sponsor	8/16/2017 – 8/15/2019
“The role of RGS12 in the action of amphetamine and related drugs of abuse”			
R15 AR066806	Kinsey (PI)		4/1/2015 – 6/30/2018
“Targeting multiple enzymes to reduce arthritic pain and inflammation”			
R03 DA038714	Kinsey (PI)		2/01/2015 – 1/31/2017
“Endocannabinoid modulation of affective signs of cannabinoid withdrawal”			

### PEER-REVIEWED PUBLICATIONS (H-INDEX: 33; ORCID 0000-0003-0764-1700)

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\*graduate mentee; \*\*undergraduate mentee

- 1) Vanegas\*, S.O., Zaki, A., Dealy, C.N., **Kinsey, S.G.** (2024) The minor phytocannabinoid delta-8-tetrahydrocannabinol attenuates collagen-induced arthritic inflammation and pain-depressed behaviors. *Journal of Pharmacology and Experimental Therapeutics*. *In press*.
- 2) Eckard\*, ML, **Kinsey, SG.** (2024). Differential disruption of response alternation by precipitated  $\Delta^9$ -THC withdrawal and subsequent  $\Delta^9$ -THC abstinence in mice. *Pharmacology, Biochemistry and Behavior*, *in press*.
- 3) Vanegas\*, S.O., Reck\*, A.M., Rodriguez\*, C.E., Marusich, J.A., Yassin, O., Sotzing, G., Wiley, J.L., **Kinsey, S.G.** (2022). Hemp-derived  $\Delta^8$ -tetrahydrocannabinol produces physical dependence in mice. *Drug and Alcohol Dependence*. 240:109640.
- 4) Nass\*, SR, Steele\*, F.F, and **Kinsey, SG.** (2021). MAGL inhibition attenuates inflammatory arthritis-induced paw inflammation. *Cannabis and Cannabinoid Research*. 6:233-241.
- 5) Eckard\* M.L., & **Kinsey, S.G.** (2021). Gabapentin attenuates somatic signs of precipitated THC withdrawal in mice. *Neuropharmacology*. 190:108554.
- 6) Trexler\*, KR, Vanegas\*, SO, Poklis, JL, & **Kinsey, SG** (2020). The short-acting synthetic cannabinoid AB-FUBINACA induces physical dependence in mice. *Drug and Alcohol Dependence*. 214:108179.
- 7) White, AN, Gross\*, JD, Kaski\*, SW, Trexler\* KR, Wix, KA, Rodriguiz, RM, Wetsel, WC, **Kinsey, SG**, Siderovski, DP, Setola, V. (2020). Genetic deletion of Rgs12 in mice affects serotonin transporter expression and function in vivo and ex vivo. *Journal of Psychopharmacology*. 34:1393-1407.
- 8) Eckard\*, M.L., Trexler\*, K.R., Anderson, K.G., & **Kinsey, S.G.** (2020). Precipitated  $\Delta^9$ -THC withdrawal reduces motivation for sucrose reinforcement in mice. *Pharmacology, Biochemistry, and Behavior*. 195:172966.
- 9) Kaski\* SW, White AN, Gross\* JD, Trexler\* KR, Wix K, Harland AA, Prisinzano TE, Aube J, **Kinsey SG**, Kenakin T, Siderovski D, Setola V. (2019). Preclinical testing of nalfurafine as an opioid-sparing adjuvant that potentiates analgesia by the mu opioid receptor-targeting agonist morphine. *Journal of Pharmacology and Experimental Therapeutics*. 371:487-499.
- 10) Trexler\*, K.R., Eckard\*, M.L., and **Kinsey, S.G.** (2019). CB<sub>1</sub> positive allosteric modulation attenuates  $\Delta^9$ -THC withdrawal and NSAID-induced gastric inflammation. *Pharmacology, Biochemistry, and Behavior*. 177:27-33.
- 11) Trexler\*, K.R., Nass\*, S.R., Crowe\*, M.S., Jones\*\*, M.S., McKittrick\*\*, A.W., Gross, J., Siderovski, D.P., & **Kinsey, S.G.** (2018). Novel tests of spontaneous and precipitated THC withdrawal in mice. *Drug and Alcohol Dependence*. 191:14-24.

- 12) Neeley, B; Overholt\*\*, T; Artz, E, **Kinsey, SG**, & Marsat, G. (2018). Selective and context-dependent social and behavioral effects of cannabinoids in Ghost Knifefish. *Brain Behavior and Evolution*. 91(4):214-227.
- 13) Crowe\*, M.S., Wilson, C.D., Leishman, E., Banks, M., Bradshaw, H.B., Prather, P.L., & **Kinsey, S.G.** (2018). The monoacylglycerol lipase inhibitor KML29 synergistically potentiates the analgesic effects of gabapentin in mice. *British Journal of Pharmacology*. 174(23):4523-4539.
- 14) Donvito, G., Nass\*, SR, Wilkerson, JL, Curry, Z., Schurman, LD, **Kinsey, SG**, & Lichtman, AH. (2018). The endogenous cannabinoid system: a budding source of targets for treating inflammatory and neuropathic pain. *Neuropsychopharmacology*. 43(1):52-79.
- 15) Crowe\*, M.S. & **Kinsey, S.G.** (2017). MAGL inhibition modulates gastric secretion and motility following NSAID exposure in mice. *European Journal of Pharmacology*. 807:198-204.
- 16) Wilkerson, JL, Ghosh, S, Bagdas, D, Mason, BL, Crowe\*, MS, Hsu, K, Wise, LE, **Kinsey, SG**, Damaj, MI, Cravatt, BF and Lichtman, AH. (2016). Diacylglycerol lipase beta inhibition reverses nociceptive behavior in mouse models of inflammatory and neuropathic pain. *British Journal of Pharmacology*. 173(10):1678-92.
- 17) McBean\*, A.L., **Kinsey, S.G.**, Montgomery-Downs, H.M. (2016). Effects of a Single Night of Postpartum Sleep on Childless Women's Daytime Functioning. *Physiology & Behavior*. 156:137-47.
- 18) Ignatowska-Jankowska, B.M., Bailie, G., Crowe\*, M.S., **Kinsey, S.G.**, Ross, R., & Lichtman, A.H. (2015). A Cannabinoid CB1 Receptor Positive Allosteric Modulator Reduces Neuropathic Pain in the Mouse with no Psychoactive Effects. *Neuropsychopharmacology*. 40(13):2948-59.
- 19) Ghosh, S., **Kinsey, S.G.**, Liu, Q., Hrubá, L, McMahan, L.R., Wise, L.E., Abdullah, R.A., Selley, D.E., Sim-Selley, L.J., Cravatt, B.F., & Lichtman, A.H. (2015). Full FAAH inhibition combined with partial monoacylglycerol lipase inhibition: Augmented and sustained antinociceptive effects with negligible cannabimimetic side effects in mice. *Journal of Pharmacology and Experimental Therapeutics*. 354:111-120.
- 20) Nass\*, S.R., Long, J.Z., Schlosburg, J.E., Cravatt, B.F., Lichtman, A.H., & **Kinsey, S.G.** (2015) Endocannabinoid catabolic enzymes function to maintain thermal homeostasis in response to environmental or immunological challenge. *Journal of Neuroimmune Pharmacology*. 10:364-370.
- 21) Crowe\*, M.S., Leishman, E., Gujjar, R., Mahadevan, A., Banks, M.L., Bradshaw, H.B., & **Kinsey, S.G.** (2015) Dual Cyclooxygenase and Monoacylglycerol Lipase Inhibition Synergistically Attenuates Neuropathic Pain. *British Journal of Pharmacology*. 172:1700-1712.
- 22) Grim, T.W., Ghosh, S., Hsu, K, Cravatt, B.F., **Kinsey, S.G.**, & Lichtman, A.H. (2014). Co-administration of a FAAH inhibitor and an NSAID produces enhanced anti-allodynic effects in murine neuropathic and inflammatory pain models. *Pharmacology, Biochemistry, and Behavior*. 124:405-411.
- 23) Crowe\*, M.S., Nass\*, S.R., Gabella\*, K.M., and **Kinsey, S.G.** (2014). The endocannabinoid system modulates stress, emotionality, and inflammation. *Brain, Behavior, and Immunity*. 42:1-5.
- 24) Schlosburg, JE, **Kinsey, SG**, Ignatowska-Jankowska, B, Ramesh, D, Abdullah, RA, Tao, Q, Booker, L, Long, JZ, Selley, DE, Cravatt, BF, and Lichtman, AH (2014). Prolonged monoacylglycerol lipase blockade causes equivalent CB1-receptor mediated adaptations in FAAH wild type and knockout mice. *Journal of Pharmacology and Experimental Therapeutics*. 350(2):196-204.
- 25) Ignatowska-Jankowska, BM, Ghosh, S, Crowe\*, MS, **Kinsey, SG**, Niphakis, MJ, Abdullah, RA, O'Neal, ST, Walentiny, DM, Wiley, JL, Cravatt, BF, & Lichtman, AH (2014). In vivo characterization of the highly selective monoacylglycerol lipase inhibitor KML29: Antinociceptive activity without cannabimimetic side effects. *British Journal of Pharmacology*. 171(6):1392-1407.
- 26) **Kinsey, S.G.** and Cole\*\*, E.C. (2013). Acute  $\Delta^9$ -tetrahydrocannabinol blocks gastric hemorrhages induced by the nonsteroidal anti-inflammatory drug diclofenac sodium in mice. *European Journal of Pharmacology*. 715(1-3):111-116.

- 27) **Kinsey, S.G.**, Wise, L.E., Ramesh, D., Long, J.Z., Selley, D.E., Cravatt, B.F., & Lichtman, A.H. (2013). Chronic inhibition of monoacylglycerol lipase causes dose dependent tolerance to endocannabinoid function in mice. *The Journal of Pharmacology and Experimental Therapeutics*. 345(3), 492-501.
- 28) Booker, L., **Kinsey, S.G.**, Abdullah, R.A., Long, J.Z., Boger, D., Cravatt, B.F., & Lichtman, A.H. (2012). The FAAH inhibitor PF-3845 acts in the nervous system to reverse lipopolysaccharide-induced tactile allodynia in mice. *British Journal of Pharmacology*. 165(8), 2485-2496.
- 29) Nomura, D.K., Morrison, B.E., Blankman, J.L., Long, J.Z., **Kinsey, S.G.**, Marcondes, M.C., Ward, A.M., Lichtman, A.H., Conti, B., & Cravatt, B. F. (2011). Anatomical demarcation of proinflammatory eicosanoids by enzymes that produce arachidonic acid. *Science*. 334(6057), 809-813.
- 30) **Kinsey, S.G.**, Naidu, P.S., Cravatt, B.F., Dudley, D.T., & Lichtman, A.H. (2011). Fatty acid amide hydrolase blockade produces anti-arthritic effects in the mouse collagen-induced arthritis model. *Pharmacology Biochemistry and Behavior*. 99(4), 718-725.
- 31) Ramesh, D., Schlosburg, J.E., Abdullah, R.A., **Kinsey, S.G.**, Long, J.Z., Cravatt, B.F., Akbarali, H.I., Sim-Selley, L.J., & Lichtman, A.H. (2011). Targeting endocannabinoid catabolizing enzymes for the treatment of opioid withdrawal. *The Journal of Pharmacology and Experimental Therapeutics*. 339(1), 173-185.
- 32) **Kinsey, S.G.**, Nomura, D.K., O'Neal, S.T., Long, J.Z., Cravatt, B.F., & Lichtman, A.H. (2011). Inhibition of monoacylglycerol lipase (MAGL) attenuates NSAID-induced gastric hemorrhages in mice. *The Journal of Pharmacology and Experimental Therapeutics*. 338(3), 795-802.
- 33) Ezzili, C., Mileni, M., McGlinchey, N., Long, J.Z., **Kinsey, S.G.**, Hochstatter, D.G., Cravatt, B.F., Stevens, R.C., Lichtman, A.H., Bilsky, E.J., & Boger, D.L. (2011). Reversible Competitive  $\alpha$ -Keto-heterocycle Inhibitors of Fatty Acid Amide Hydrolase Containing Additional Conformational Constraints in the Acyl Side Chain: Orally Active, Long Acting Analgesics. *Journal of Medicinal Chemistry*. 54(8), 2805-2822.
- 34) **Kinsey, S.G.**, O'Neal, S.T., Long, J.Z., Cravatt, B.F., & Lichtman, A.H. (2011). Inhibition of endocannabinoid catabolic enzymes elicits anxiolytic-like effects in the marble burying assay. *Pharmacology, Biochemistry, and Behavior*. 98, 21-27.
- 35) **Kinsey, S.G.**, Mahadevan, A., Naidu, S.P., Zhao, B., Sun, H., Selley, D.E., Damaj, M.I., & Lichtman, A.H. (2011). The novel CB2 cannabinoid receptor-selective agonist O-3223 reduces pain and inflammation without apparent cannabinoid behavioral effects. *Neuropharmacology*. 60, 244-251.
- 36) Schlosburg, J.E., Blankman, J.L., Long, J.Z., Nomura, D.K., Pan, B., **Kinsey, S.G.**, Nguyen, P.T., Ramesh, D., Booker\*, L., Burston, J.J., Thomas, E.A., Selley, D.E., Sim-Selley, L.J., Liu, Q., Lichtman, A.H., and Cravatt, B.F. (2010). Chronic monoacylglycerol lipase blockade causes functional antagonism of the endocannabinoid system. *Nature Neuroscience*. 13, 1113-1119
- 37) **Kinsey, S.G.**, Long, J.Z., Cravatt, B.F., & Lichtman, A.H. (2010). Fatty acid amide hydrolase and monoacylglycerol lipase inhibitors produce anti-allodynic effects in mice through distinct cannabinoid receptor mechanisms. *The Journal of Pain*. 11, 1420-1428.
- 38) Naidu, P.S., **Kinsey, S.G.**, Guo, T.L., Cravatt, B.F., & Lichtman, A.H. (2010). Regulation of Inflammatory Pain by Inhibition of Fatty Acid Amide Hydrolase (FAAH). *The Journal of Pharmacology and Experimental Therapeutics (IF: 4.02)*. 334, 182-190.
- 39) **Bailey, M.T./Kinsey, S.G.**, Padgett, D.A., Sheridan, J.F., & Leblebicioglu, B. (2009). Social stress enhances IL-1 $\beta$  and TNF- $\alpha$  production by *Porphyromonas gingivalis* lipopolysaccharide-stimulated CD11b+ cells. *Physiology & Behavior*. 98, 351-358.
- 40) **Kinsey, S.G.**, Long, J.Z., O'Neal, S.T., Abdullah, R.A., Poklis, J.L., Boger, D., Cravatt, B.F. & Lichtman, A.H. (2009). Blockade of endocannabinoid-degrading enzymes attenuates neuropathic pain. *The Journal of Pharmacology and Experimental Therapeutics*. 330, 902-910.

- 41) Bailey, M.T., Kierstein, S., Sharma, S., Spaits, **Kinsey, S.G.**, M., Tliba, O., Sheridan, J.F., Panettieri, R.A., & Haczku, A. (2009). Social stress enhances allergen-induced airway inflammation in mice and inhibits corticosteroid responsiveness of cytokine production. *The Journal of Immunology*. 182, 7888-7896.
- 42) Long, J.Z., Li, W., Booker\*, L., Burston, J.J., **Kinsey, S.G.**, Schlosburg\*, J.E., Pavon, F.J., Serrano, A.M., Selley, D.E., Parsons, L.H., Lichtman, A.H., & Cravatt, B.F. (2009). Selective blockade of 2-arachidonoyl glycerol produces cannabinoid behavioral effects. *Nature Chemical Biology*. 5, 37-44.
- 43) Schlosburg, J.E., **Kinsey, S.G.**, & Lichtman, A.H. (2009). Targeting Fatty Acid Amide Hydrolase (FAAH) to treat pain and inflammation. *The AAPS Journal*. 11, 39-44.
- 44) **Kinsey, S.G.**, Bailey, M.T., Sheridan, J.F., & Padgett, D.A. (2008). The inflammatory response to social defeat is increased in older mice. *Physiology & Behavior*. 93, 628–636
- 45) Avitsur, R., **Kinsey, S.G.**, Bidor, K., Bailey, M.T., Padgett, D.A., & Sheridan, J.F. (2007). Subordinate social status increases the vulnerability to the immunological effects of social stress. *Psychoneuroendocrinology*. 32, 1097-1105.
- 46) **Kinsey, S.G.**, Bailey, M.T., Padgett, D.A., Sheridan, J.F., & Avitsur, R. (2007). Repeated social defeat causes increased anxiety-like behavior and alters splenocyte function in C57BL/6 and CD-1 mice. *Brain Behavior and Immunity*. 21, 458-466.
- 47) **Kinsey, S. G.**, Prendergast, B. J., & Nelson, R. J. (2003). Photoperiod and stress affect wound healing in Siberian hamsters. *Physiology & Behavior*. 78, 205-211.
- 48) Prendergast, B. J., Bilbo, S. D., Hotchkiss, A. H., **Kinsey, S. G.**, & Nelson, R. J. (2003). Photoperiodic adjustments in immune function protect Siberian hamsters from lethal endotoxemia. *Journal of Biological Rhythms*. 18, 51-62.

#### BOOK CHAPTERS AND OTHER PUBLICATIONS

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- 1) Vanegas\*, S.O., Trexler\*, K.R., Eckard\*, M.L, Steele\*, F.F., & **Kinsey, S.G.** (2022). Neuroendocrinology of stress and addiction. In Randy J. Nelson (Ed.), [Oxford Encyclopedia of Neuroendocrine and Autonomic Systems](#). New York and Oxford: Oxford University Press. doi:10.1093/acrefore/9780190264086.013.ORE\_NEU-00252.R1
- 2) **Kinsey, SG**, & Lichtman AH (2018). The Endogenous Cannabinoid System: A Cadre of Potential Therapeutic Targets. In: [Cannabis Use Disorder](#), eds. Montoya, ID and Weiss, S.
- 3) **Kinsey, S.G.** & Ramesh, D. (2016). Is medical marijuana actually medicinal? Two experts explain the evidence. *The Conversation*. <http://theconversation.com/what-do-we-know-about-marijuanas-medical-benefits-two-experts-explain-the-evidence-64200>
- 4) **Kinsey, S.G.** (2014). Review of “Introduction to Psychoneuroimmunology” (2nd ed), Jorge H. Daruna. *Brain, Behavior, and Immunity*. 35, 109-110.

#### MANUSCRIPTS

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\*graduate mentee; \*\*undergraduate advisee

- 1) Vanegas, S.O., **Kinsey, S.G.** Cannabinoids increase thermal preference at doses that predict hypothermia. *In preparation*.
- 2) Rodriguez\*, C.E.B., Vanegas\*, S.O., Reck\*, A.M., Schrom\*\*, Y., **Kinsey, S.G.** Combining endocannabinoid and cyclooxygenase inhibitors to attenuate postsurgical pain. *Under review*.
- 3) Reck, A.M., Siderovski, D.P., **Kinsey, S.G.** Cannabinoids and terpenes bidirectionally modulate pruritus in mice. *In preparation*.
- 4) Vanegas, S.O., **Kinsey, S.G.** Analgesic and anti-inflammatory effects of minor phytocannabinoids cannabinal and cannabicyclol in mice. *In preparation*.

- 5) Wu, Z, Sujana Immadi, S, Trexler\*, KR, **Kinsey, SG**, Dopart, R, Kendall, DA, Deschamps, J, Mustafa, M, Donvito, G, Lichtman, AH, Lu, D. Optimized Synthesis of Racemic ZCZ011, a Positive Allosteric Modulator of the Cannabinoid CB<sub>1</sub> Receptor and Resolution and Characterization of its Enantiomers. *In preparation.*
- 6) Sevi, B., **Kinsey, S.G.**, & Shook, N.J. Interactions among the behavioral and physiological immune systems. *In preparation.*

## INVITED PRESENTATIONS

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- 2023 Department of Neuroscience, University of Connecticut Health, Farmington, CT  
 Department of Psychiatry, Columbia University, New York, NY  
 Department of Psychology and Neuroscience, University of North Carolina, Chapel Hill, NC
- 2019 Department of Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA  
 WELLWVU's Office of Wellness and Health Promotion, Morgantown, WV
- 2018 School of Nursing, University of Connecticut, Storrs, CT  
 Potomac State College of West Virginia University, Keyser, WV  
 Washington State University, Pullman, WA  
 University of Buffalo, Buffalo, NY
- 2017 West Virginia Osteopathic Medical Association, White Sulphur Springs, WV  
 WV March for Science, Morgantown, WV
- 2015 Science on Tap, Morgantown, WV  
 Department of Biology, Saint Vincent College, Latrobe, PA
- 2014 Department of Psychology, The Ohio State University, Columbus, OH  
 Center for Substance Abuse Research, Temple University, Philadelphia, PA
- 2012 University Hospital of Regensburg, Dept of Internal Medicine, Regensburg, Germany
- 2011 Department of Pharmacology & Toxicology, East Carolina University, Greenville, NC  
 Department of Psychology, West Virginia University, Morgantown, WV  
 VCU Medical Center Discovery Dialogues lecture series  
 American Society for Pharmacology and Experimental Therapeutics (ASPET)  
 Integrative Systems, Translational and Clinical Pharmacology (iSTCP) Young Investigator Awards competition, Washington, DC  
 ASPET Postdoc Best Abstract competition, Washington, DC
- 2010 Psychoneuroimmunology Research Society, Dublin, Ireland  
 Neuroscience 2010 Travel Award Recipients Poster Session, San Diego, CA
- 2008 Psychoneuroimmunology Research Society, Madison, WI
- 2007 UVA Digestive Health Research Center, University of Virginia, Charlottesville, VA  
 Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA

## SELECTED EXTRAMURAL PRESENTATIONS

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\* graduate mentee; \*\*undergraduate mentee

- 1) Vanegas, S.O., Dealy, C., **Kinsey, SG** (2023). The minor cannabinoid delta-8-tetrahydrocannabinol attenuates inflammatory arthritis. *Paper presented at the Carolina Cannabinoid Collaborative, Raleigh-Durham, NC. \*Awarded Second Place for Best Oral Presentation.*
- 2) Reck, A.M., Siderovski, D.P., **Kinsey, S.G.** (2023). Differential effects of Δ8-tetrahydrocannabinol and β-caryophyllene in experimentally-induced pruritus. *Paper presented at the Carolina Cannabinoid Collaborative, Raleigh-Durham, NC.*

- 3) Vanegas, S.O., Gamage, T.F., Maturano, J, Sarlah, D, & **Kinsey, S.G.** (2023). In vivo effects of minor cannabinoids cannabinal, cannabichromene, and cannabicyclol occur via multiple receptor mechanisms. Oral presentation, International Cannabinoid Research Society Symposium, Toronto, Canada.
- 4) Reck, AM, Siderovski, DP, **Kinsey, SG** (2023).  $\Delta^8$ -THC and  $\beta$ -caryophyllene Differentially Alter Pruritus in Mice. Poster presentation, International Cannabinoid Research Society Symposium, Toronto, Canada.
- 5) Rodriguez, CEB, Reck, AM, Vanegas SO , Schrom, Y, Kassapidis, Z, **Kinsey, SG** (2023). Dual MAGL & COX inhibition additively attenuates post-operative pain in mice. Poster presentation, International Cannabinoid Research Society Symposium, Toronto, Canada.
- 6) **Kinsey, S.G.** and Rodriguez\*, C.E. (2022), Cannabinoid approaches to reduce post-surgical pain (2022). Poster presented at Neuroscience 2022, San Diego, California, USA.
- 7) Vanegas\*, S. O., Gamage, T. F., Maturano, J., Sarlah, D., **Kinsey, S. G.** (2022) "Behavioral and analgesic effects of minor phytocannabinoids." Poster presentation, Neuroscience 2022, San Diego, CA, USA.
- 8) Vanegas\*, S. O., Gamage, T. F., Maturano, J., Sarlah, D., **Kinsey, S. G.** (2022). Assessment of three minor phytocannabinoids in a mouse model of chronic neuropathic pain. Oral presentation, Carolina Cannabinoid Collaborative Conference, Greenville, NC, USA.
- 9) Mulholland, B., **Kinsey, S.G.**, Eckard, M.L. (2022). Precipitated  $\Delta^9$ -THC withdrawal and subsequent  $\Delta^9$ -THC abstinence in mice differentially disrupt response alternation. Poster presented at Carolina Cannabinoid Collaborative Conference, Greenville, NC, USA.
- 10) Reck\*, A. M., & **Kinsey, S. G.** (2022). WIN 55,212 Reduces Pruritus Through CB<sub>2</sub>. Poster presentation, Cannabinoid Collaborative Conference, Greenville, NC, USA.
- 11) Rodriguez\*, C.E., Frances Kim\*\*, Yasmin Schrom\*\* and **Kinsey, S.G.** (2022). Co-administration of MAGL and COX inhibitors attenuates post-surgical pain in mice. Oral Presentation at Carolina Cannabinoid Collaborative Conference, Greenville, North Carolina USA
- 12) Rodriguez\*, C.E., and **Kinsey, S.G.** (2022). Increasing endocannabinoids to reduce postoperative pain. Oral presentation at New England Cannabis Research & Education Conference, Eastern Connecticut State University, CT, USA.
- 13) Vanegas\*, S. O., Reck\*, A. M., Rodriguez\*, C. E., Marusich, J., Yassin, O., Sotzing, G., Wiley, J., **Kinsey, S. G.** (2022).  $\Delta 8$ -THC is a psychoactive drug with a similar abuse profile as  $\Delta 9$ -THC. Oral presentation, New England Cannabis Research & Education Conference, Eastern Connecticut State University, CT, USA.
- 14) Reck\*, A. M., & **Kinsey, S. G.** (2022). The Synthetic Cannabinoid WIN 55,212-2 Reduces Itch Through CB<sub>2</sub>. Oral presentation, New England Cannabis Research & Education Conference, Eastern Connecticut State University, CT, USA.
- 15) Vanegas\*, S. O., Reck\*, A. M., Rodriguez\*, C. E., Marusich, J., Yassin, O., Sotzing, G., Wiley, J., **Kinsey, S. G.** (2022). "Assessment of dependence potential and abuse liability of  $\Delta^8$ -tetrahydrocannabinol in mice." Poster presented at the International Cannabinoid Research Society Symposium, Galway, Ireland.
- 16) Rodriguez\*, C.E. and **Kinsey, S.G.** (2022), MAGL inhibition attenuates post-surgical pain in mice. Poster was presented at the International Cannabinoid Research Society Annual Symposium, Galway, Ireland.
- 17) Reck\*, A. M., Kim\*\*, F., & **Kinsey, S. G.** (2022). Cannabinoid and opioid receptor approaches to reducing histamine-induced pruritus. Poster presented at the International Cannabinoid Research Society, Galway, Ireland.

- 18) Sevi, B., Shook, N. J, & **Kinsey, S. G.** (2022). Activating the behavioral immune system does not increase saliva IL-6 and TNF- $\alpha$  levels. Poster presented at the Society for Social and Personality Psychology, San Francisco, CA.
- 19) Vanegas\*, SO, Trexler\*, KR, and **Kinsey, SG** (2021). Novelty-induced hypophagia as a measure of spontaneous cannabinoid withdrawal. Poster presented at the International Cannabinoid Research Society virtual meeting. Jerusalem, Israel.
- 20) Eckard\* M.L., & **Kinsey, S.G.** (2019). Gabapentin attenuates withdrawal from  $\Delta^9$ -THC in mice. Paper presented at the International Cannabinoid Research Society annual meeting. Bethesda, MD.
- 21) Steele\*, FF, Nass\*, SR, Hsu, K, and **Kinsey, SG** (2019). Anti-arthritic Effects of Endocannabinoid Enzyme Inhibition in a Mouse Model of Inflammatory Arthritis. Poster presented at the International Cannabinoid Research Society annual meeting. Bethesda, MD.
- 22) Trexler\*, KR, Eckard\*, ML, Dai, L, and **S. Kinsey** (2019). The CB1 Positive Allosteric Modulator ZCZ011 Blocks  $\Delta^9$ -THC Withdrawal in Mice. Poster presented at the International Cannabinoid Research Society annual meeting. Bethesda, MD.
- 23) Steele\*, FF, Nass\*, SR, and **Kinsey, SG** (2018). Pharmacological inhibition of MAGL attenuates signs of collagen-induced arthritis in mice. Poster presented at Carolina Cannabinoid Collaborative. Raleigh, NC.
- 24) Trexler\*, KR, Eckard\*, ML, and **S. Kinsey** (2018). Investigation of CB<sub>1</sub> positive allosteric modulation of cannabinoid withdrawal, emotionality, and conditioned place preference. Poster presented at Carolina Cannabinoid Collaborative. Raleigh, NC.
- 25) Eckard\*, ML, Trexler\*, KR, and **S. Kinsey** (2018). CB<sub>1</sub> positive allosteric modulation potentiates the antiulcerogenic effects of MAGL inhibition in mice. Poster presented at Carolina Cannabinoid Collaborative. Raleigh, NC.
- 26) Nguyen\*\*, TT, Naylor\*\*, AS, Eckard\*, M, Trexler\*, KR, and **S. Kinsey** (2018). Using CB1 Positive Allosteric Modulation to Block Ulcer Formation. Poster presented at the 2018 WV-INBRE symposium.
- 27) Naylor\*\*, AS, Nguyen\*\*, TT, Trexler\*, KR, Eckard\*, M, and **S. Kinsey** (2018). ZCZ011: An alternative cannabinoid approach to reduce anxiety. Poster presented at the 2018 WV-INBRE symposium.
- 28) Steele\*, FF, Nass\*, SR, and **Kinsey SG** (2018). MAGL inhibition attenuates paw inflammation and functional deficits caused by collagen-induced arthritis. Poster presented at the International Cannabinoid Research Society annual meeting. Leiden, Netherlands.
- 29) Trexler\*, KR and **Kinsey SG** (2018). The CB<sub>1</sub> positive allosteric modulator, ZCZ011, attenuates somatic signs of  $\Delta^9$ -THC withdrawal. Poster presented at the International Cannabinoid Research Society annual meeting. Leiden, Netherlands.
- 30) Trexler\*, KR, Nass\*, SR and **Kinsey SG** (2017). THC withdrawal is a stressor that alters emotionality-related behaviors in mice. Paper presented at the Carolina Cannabinoid Collaborative meeting in Raleigh-Durham, NC. *CCC Best Presentation Award recipient.*
- 31) Eckard\*, ML, Trexler\*, KR, Anderson KG, and **Kinsey SG** (2017). Goal-directed behaviors reveal disruptions caused by tolerance to and withdrawal from THC. Poster presented at the Carolina Cannabinoid Collaborative meeting in Raleigh-Durham, NC.
- 32) Silverstri\*\*, E, Trexler\*, KR, Aliff\*\*, H, Nass\*, SR, Eckard\*, ML and **Kinsey SG** (2017).  $\Delta^9$ -THC withdrawal affects emotionality-related behavior and is not attenuated by CB1 positive allosteric modulation. Poster presented at the WVU 2017 Neuroscience retreat and SURI/SURE conference.
- 33) Aliff\*\*, H, Eckard\*, ML, Silverstri\*\*, E, Trexler\*, KR, and **Kinsey SG** (2017). Differential effects of endocannabinoid modulation of gastric inflammation following exposure to ethanol or nonsteroidal anti-inflammatory drugs. Poster presented at the WVU 2017 Neuroscience retreat and WV INBRE conference.

- 34) Nass, SR & **Kinsey, SG** (2017). Targeting the endocannabinoid and glucocorticoid systems to attenuate inflammatory arthritis. Poster presented at the International Cannabinoid Research Society annual meeting. Montreal, Canada.
- 35) Trexler\*, KR, Gross, JD, Siderovski, DP and **Kinsey SG** (2017).  $\Delta^9$ -THC withdrawal activates the Hypothalamic-Pituitary-Adrenal axis and alters social behavior. Poster presented at the International Cannabinoid Research Society annual meeting. Montreal, Canada. *ICRS Scientific Achievement Award recipient*.
- 36) **Kinsey, SG**, Trexler\*, KR, Nass\*, SR, Crowe\*, MS, McKittrick\*\*, AW. (2016). Delta<sup>9</sup>-THC withdrawal induces somatic and emotionality-related behaviors in mice. Dynamic Poster presented at the Society for Neuroscience, San Diego, CA.
- 37) Crowe\*, MS, Gujjar, R., Mahadevan, A, Banks, M, **Kinsey, SG** (2016). Endocannabinoid enzyme inhibition synergistically potentiates the antiallodynic effects of gabapentin and diclofenac in mice. Poster presented at the Society for Neuroscience, San Diego, CA.
- 38) **Kinsey, SG**, Crowe\*, MS, Wilson, CD, Leishman, E, Banks, M, Bradshaw, HB, Prather, PL (2016). The monoacylglycerol lipase inhibitor KML29 synergistically potentiates the analgesic effects of gabapentin in mice. Paper presented at the Carolina Cannabinoid Collaborative meeting in Philadelphia, PA.
- 39) Trexler\*, KR, Nass\*, SR, McKittrick\*\*, AW, **Kinsey, SG** (2016). Common emotionality drug screens detect precipitated and spontaneous THC withdrawal. Paper presented at the Carolina Cannabinoid Collaborative meeting in Philadelphia, PA.
- 40) Nass\*, SR, Cardullo\*\*, MK, **Kinsey, SG** (2016). Disparities in the Anti-inflammatory and Analgesic Effects of the CB<sub>2</sub>-Selective Agonist HU-308 in Chronic and Acute Models of Inflammatory Arthritis. Poster presented at the Carolina Cannabinoid Collaborative meeting in Philadelphia, PA.
- 41) Trexler\*, KR, Nass\*, SR, McKittrick\*\*, AW, & **Kinsey, SG** (2016). MAGL inhibition attenuated  $\Delta^9$ -THC somatic withdrawal, but not altered emotionality-related behaviors. Paper presented at the International Cannabinoid Research Society, Bukovina, Poland.
- 42) Crowe\*, MS, Gujjar, R, Mahadevan, A, Banks M, & **Kinsey, SG** (2016). MAGL inhibition synergistically potentiates the anti-allodynic effects of gabapentin and diclofenac. Paper presented at the International Cannabinoid Research Society, Bukovina, Poland. *ICRS Scientific Achievement Award recipient*
- 43) Nass\*, SR, Cardullo\*\*, MK, & **Kinsey, SG** (2016). The CB<sub>2</sub>-selective agonist HU-308 attenuates inflammation and hyperalgesia in chronic and acute models of inflammatory arthritis. Poster presented at the International Cannabinoid Research Society, Bukovina, Poland.
- 44) Crowe\*, MS, Gujjar, R, Mahadevan, A, Banks, M, & **Kinsey, SG** (2015). The monoacylglycerol lipase inhibitor KML29 with gabapentin synergistically reduces neuropathic pain in mice. Poster presented at the Carolina Cannabinoid Collaborative, NIAAA, Rockville, MD.
- 45) Nass\* SR, Cardullo, MK, **Kinsey, SG** (2015) Anti-inflammatory and antihyperalgesic effects of JZL184 and the selective CB<sub>2</sub> agonist HU-308 in collagen-induced arthritis. Poster presented at the Carolina Cannabinoid Collaborative, NIAAA, Rockville, MD.
- 46) Trexler\*, KR, Nass\*, SR, McKittrick, A, & **Kinsey, SG** (2015). Precipitated THC withdrawal: Emotionality assays offer advantages over somatic signs. Poster presented at the Carolina Cannabinoid Collaborative, NIAAA, Rockville, MD.
- 47) Nass\*, SR and **Kinsey, SG** (2015). Inflammatory arthritis-induced hyperalgesia and pain-suppressed behavior are attenuated by the monoacylglycerol lipase inhibitor JZL184. Poster presented at the International Cannabinoid Research Society, Wolfville, Canada.

- 48) Crowe\*, MS, Pink, M, Peluso, S, and **Kinsey, SG** (2015). The novel cannabinoid enzyme inhibitor IPI-0595 blocks neuropathic pain and gastric inflammation. Poster presented at the International Cannabinoid Research Society, Wolfville, Canada.
- 49) Taylor\*\*, RL, Crowe\*, MS, and **Kinsey, SG** (2015). Neuropathic pain is attenuated by the cannabinoid enzyme inhibitor KML29 and the GABA analogue gabapentin. Poster presented at the 16th Annual National Conference for McNair Scholars, College Park, Maryland.
- 50) Crowe\*, MS, Leishman, E, Gujjar, R, Mahadevan, A, Banks, M, Bradshaw, HB, & **Kinsey, SG** (2014). Inhibition of cyclooxygenases and the endocannabinoid enzyme monoacylglycerol lipase synergistically reduces neuropathic pain in mice. Poster presented at the Society for Neuroscience, Washington, DC
- 51) Nass\*, S. R., & **Kinsey, S. G.** (2014). Pharmacologic Blockade of the Cannabinoid Enzyme Monoacylglycerol Lipase Attenuates Hyperalgesia Induced by Inflammatory Arthritis. Poster presented at the Society for Neuroscience, Washington, DC.
- 52) Taylor\*\*, RL, Crowe\*, MS, and **Kinsey, SG** (2014). The selective monoacylglycerol lipase inhibitor, KML29 attenuates neuropathic pain in mice. Poster presented at the Carolina Cannabinoid Collaborative, Winston-Salem, NC
- 53) Crowe\*, MS and **Kinsey, SG** (2014). Restraint stress-induced delay of cutaneous wound healing is not reversed by monoacylglycerol or fatty acid amide hydrolase inhibition. Poster presented at the Carolina Cannabinoid Collaborative, Winston-Salem, NC
- 54) Nass\*, SR, and **Kinsey, SG** (2014). Acute Monoacylglycerol Lipase Inhibition Attenuates Hyperalgesia Caused by Collagen-induced Arthritis. Poster presented at the Carolina Cannabinoid Collaborative, Winston-Salem, NC
- 55) Crowe\*, MS, Leishman, E, Gujjar, R, Mahadevan, A, Banks, M, Bradshaw, HB, **Kinsey, SG.** (2014). Attenuating neuropathic pain through dual inhibition of cyclooxygenase and monoacylglycerol lipase. Poster presented at the International Cannabinoid Research Society, Baveno, Italy.
- 56) Nass\*, S. R., & **Kinsey, S. G.** (2014). The monoacylglycerol lipase inhibitor JLZ184 attenuates hyperalgesia induced by collagen-induced arthritis. Poster presented at the International Cannabinoid Research Society, Baveno, Italy.
- 57) Gabella\*, K.M., Jones\*\*, M.S., Crowe\*, M.S., Nass\*, S.R., **Kinsey, S.G.** (2014). Rimonabant-precipitated $\Delta^9$ -Tetrahydrocannabinol Withdrawal Alters Marble Burying and Struggling Behaviors in Mice. Poster presented at the International Cannabinoid Research Society, Baveno, Italy.
- 58) **Kinsey, SG**, Nass\*, SR, Cravatt, BF, and Lichtman, AH (2014). Differential effects of endocannabinoid catabolic enzyme inhibition on thermal homeostasis following environmental or immunological stressors. Poster presented at the Psychoneuroimmunology Research Society conference, Philadelphia, PA.
- 59) Crowe\*, MS, Leishman, E, Gujjar, R, Mahadevan, A, Banks, M, Bradshaw, HB, **Kinsey, SG** (2013). Dual Cyclooxygenase and Monoacylglycerol Lipase Inhibition Synergistically Attenuates Neuropathic Pain. Paper presented at the Carolina Cannabinoid Collaborative, Richmond, VA
- 60) Ignatowska-Jankowska, BN, Baillie, GL, **Kinsey SG**, Crowe\*, MS, O'Neal, ST, Ghosh, S, Gamage, T, Wiley, JL, Greig, IR, Zanda, M, Zanato, C, Ross, R, Lichtman, AH. (2013). Anti-Allodynic Effects of ZCZ011: a Novel CB1 Positive Allosteric Modulator. Paper presented at the Carolina Cannabinoid Collaborative, Richmond, VA
- 61) Ghosh, S, Wilkerson, J, Hsu, K, Crowe\*, MS, **Kinsey, SG**, Cravatt, BF, Lichtman, AH (2013). KT-109, A Selective Diacylglycerol Lipase Beta Inhibitor Produces Antinociceptive Effects in the LPS Inflammatory Pain Mouse Model. Paper presented at the Carolina Cannabinoid Collaborative, Richmond, VA

- 62) Crowe\*, MS, Ignatowska-Jankowska, BM, Niphakis, MJ, Cravatt, BF, Lichtman, AH, and **Kinsey, SG** (2013). Gastroprotective effect of the monoacylglycerol lipase inhibitor KML29 in mice. Poster presented at the International Cannabinoid Research Society, Vancouver, Canada
- 63) Ignatowska-Jankowska, BM, Baillie, G., **Kinsey, SG**, Crowe\*, MS, Ghosh, S, O'Neal, ST, Gamage, T, Wiley, J, Greig, I, Zanato, C, Zanda, M, Ross, R, and Lichtman, AH (2013). In vivo effects of ZCZ011: a positive allosteric modulator of the CB1 receptor. Paper presented at the International Cannabinoid Research Society, Vancouver, Canada
- 64) **Kinsey, S.G.**, Cole\*\*, E.C., & Lichtman, A.H. (2012). Remarkable potency of  $\Delta^9$ -THC in blocking gastric hemorrhages caused by cyclooxygenase inhibition in mice. Paper presented at the International Cannabinoid Research Society, Freiburg, Germany
- 65) McMahon, L.R., Hrubá, L., **Kinsey, S.G.**, O'Neal, S.T., Cravatt, B.F., & Lichtman, A.H. (2012). Combined effects of a monoacylglycerol lipase and fatty acid amide hydrolase inhibitor in mice discriminating  $\Delta^9$ -tetrahydrocannabinol. Paper presented at the International Cannabinoid Research Society, Freiburg, Germany
- 66) **Kinsey, S.G.** & Lichtman, A.H. (2011).  $\Delta^9$ -THC provides gastroprotective effects at subthreshold behavioral doses. Paper presented at the Carolina Cannabinoid Collaborative, Durham, NC
- 67) **Kinsey, S.G.**, O'Neal, S.T., Nomura, D.K., Long, J.Z., Cravatt, B.F., Grider, J.R. & Lichtman, A.H. (2011). MAGL or FAAH inhibition protects against NSAID-induced gastric mucosal damage. Paper presented at the International Cannabinoid Research Society, St. Charles, IL
- 68) **Kinsey, S.G.**, O'Neal, S.T., Nomura, D.K., Long, J.Z., Cravatt, B.F., Grider, J.R. & Lichtman, A.H. (2011). Inhibition of cannabinoid metabolic enzymes reduces NSAID-induced gastric pathology. Paper and poster presented at Experimental Biology 2011, Washington, DC. *Postdoctoral Best Abstract award for poster*
- 69) **Kinsey, S.G.**, Long, J.Z., Schlosburg, J.E., Cravatt, B.F., & Lichtman, A.H. (2010). Endocannabinoid catabolic enzymes function to maintain thermal homeostasis in response to environmental or immunological challenge. Poster presented at Neuroscience 2010, San Diego, CA
- 70) **Kinsey, S.G.**, O'Neal, S.T., Nomura, D.K., Long, J.Z., Cravatt, B.F., & Lichtman, A.H. (2010). Gastroprotective effects of MAGL inhibition. Paper presented at the Carolina Cannabinoid Collaborative, Harrisonburg, VA
- 71) Ramesh, D., Schlosburg, J., Ross, G., Abdullah, R., **Kinsey, S.**, Long, J., Cravatt, B., Akbarali, H., Sim-Selley, L., and Lichtman, A. (2010). Targeting endocannabinoid catabolic enzymes for the treatment of opioid withdrawal. Paper presented at the International Cannabinoid Research Society, Lund, Sweden
- 72) Booker, L., **Kinsey, S.G.**, Abdullah, R., Long, J.Z., Boger, D., Cravatt, B.F., and Lichtman, A.H. Neuronal FAAH inhibition via PF-3845 reverses LPS induced tactile allodynia. Poster presented at the International Cannabinoid Research Society, Lund, Sweden
- 73) **Kinsey, S.G.**, Long, J.Z., Cravatt, B.F., and Lichtman, A.H. (2010). Inhibiting endocannabinoid catabolic enzymes attenuates neuropathic pain via distinct cannabinoid receptor mediated mechanisms of action. Poster presented at the Psychoneuroimmunology Research Society, Dublin, Ireland. *Trainee Scholarship award recipient*
- 74) **Kinsey, S.G.**, Long, J.Z., Cravatt, B.F., and Lichtman, A.H. (2010). Endocannabinoids reduce allodynia caused by peripheral nerve injury. Invited paper presented at the Psychoneuroimmunology Research Society, Dublin, Ireland
- 75) Booker, L., **Kinsey, S.G.**, Ahn, K., Cravatt, B.F., and Lichtman, A.H. (2009). Neuronal Fatty Acid Amide Hydrolase Mediates the Anti-Allodynic Response to Inflammatory Agents. Poster presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ

- 76) **Kinsey, S.G.**, Long, J.Z., O'Neal, S.T., Abdullah, R.A., Poklis, J.L., Boger, D., Cravatt, B.F. and Lichtman, A.H. (2009). FAAH and MAGL inhibition reduce neuropathic pain via discrete receptor-specific mechanisms of action. Paper presented at the International Cannabinoid Research Society, St. Charles, IL
- 77) **Kinsey, S.G.** & Lichtman, A.H. (2008). FAAH inhibition attenuates neuropathic pain via CB<sub>1</sub> and CB<sub>2</sub> cannabinoid receptors. Paper presented at the Carolina Cannabinoid Collaborative, Williamsburg, VA
- 78) **Kinsey, S.G.** & Lichtman, A.H. (2008). FAAH modulation of neuropathic pain: a dissociation between pharmacological and knockout approaches. Paper presented at the International Cannabinoid Research Society, Aviemore, Scotland. *ICRS Scientific Achievement Award recipient*
- 79) **Kinsey, S.G.** & Lichtman, A.H. (2008). Increasing endogenous cannabinoids reduces neuropathic pain. Poster presented at the Psychoneuroimmunology Research Society, Madison, WI. *PNIRS Scholars Award recipient*
- 80) **Kinsey, S.G.**, Bailey, M.T., Sheridan, J.F. & Padgett, D.A. (2006). Social stress exacerbates the age-dependent loss of immune regulation in mice. Paper presented at the Midwestern Psychological Association, Chicago, IL
- 81) **Kinsey, S.G.**, Bailey, M.T., Sheridan, J.F. & Padgett, D.A. (2005). Steroid resistance and anxiety-like behaviors develop in aged, socially defeated CD-1 mice. Poster presented at the Psychoneuroimmunology Research Society, Denver, CO
- 82) **Kinsey, S.G.**, Bailey, M.T., Avitsur, R., Sheridan, J.F. & Padgett, D.A. (2005). Repeated social defeat causes anxiety-like behavior and disrupts immune regulation in mice. Paper presented at the Midwestern Psychological Association, Chicago, IL
- 83) **Kinsey, S.G.**, Bailey, M.T., Avitsur, R., Padgett, D.A. & Sheridan, J.F. (2004). Social disruption induces an increase in anxiety-like behavior in C57BL/6 mice. Poster presented at the Society for Neuroscience, San Diego, CA
- 84) **Kinsey, S.G.**, Bailey, M.T., Avitsur, R., Padgett, D.A. & Sheridan, J.F. (2004). Social disruption induces changes in open field behavior in C57BL/6 mice. Poster presented at the Psychoneuroimmunology Research Society, Titisee, Germany
- 85) **Kinsey, S.G.**, Prendergast, B.J. & Nelson, R.J. (2003). Interactions among gonadal hormones, stress, and wound healing in Siberian hamsters. Poster presented at the Society for Behavioral Neuroendocrinology, Cincinnati, OH
- 86) **Kinsey, S.G.**, Prendergast, B.J. & Nelson, R.J. (2002). Acute restraint stress accelerates cutaneous wound healing in male Siberian hamsters exposed to short day lengths. Poster presented at the Society for Neuroscience, Orlando, FL
- 87) **Kinsey S.G.**, Hotchkiss, A.K., Nelson, R.J. & Prendergast, B.J. (2002). Short photoperiods protect Siberian hamsters from lethal endotoxemia. Poster presented at the Society for Behavioral Neuroendocrinology, Amherst, MA
- 88) **Kinsey, S.G.**, Prendergast, B.J. & Nelson, R.J. (2002). Acute stress accelerates wound healing in Siberian hamsters exposed to short day lengths. Poster presented at the Psychoneuroimmunology Research Society, Madison, WI

## TEACHING EXPERIENCE

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### Graduate Courses

*Fundamental Mechanisms of Acute and Chronic Pain.* School of Nursing, University of Connecticut  
*Basic and Clinical Pain Research.* School of Nursing, University of Connecticut  
*Pharmacology of Pain and Analgesia.* School of Nursing, University of Connecticut  
*Pain Assessment and Management.* School of Nursing, University of Connecticut

*Quantitative Methods for Design and Analysis in Nursing Research I*, University of Connecticut  
*Principles of Neuroscience*. Psychology, West Virginia University.  
*Advanced Neuroscience*. Psychology, West Virginia University.  
*Behavioral Endocrinology/Hormones & Behavior*. Psychology, West Virginia University.  
*Professional Issues in Behavioral Neuroscience*. Psychology, West Virginia University.  
*History & Systems of Psychology*. Psychology, West Virginia University.

### **Graduate Lectures**

*Advanced Pharmacology I: Basic Principles*. School of Pharmacy, University of Connecticut  
*Pharmacology, Brain Function and Behavior*. Behavioral Medicine & Psychiatry, West Virginia University  
*Pharmacology II*. Pharmacology and Toxicology, Virginia Commonwealth University.  
*Methods & Research Design*. Pharmacology and Toxicology, Virginia Commonwealth University.

### **Undergraduate Courses**

*Perception*. Psychology, West Virginia University  
*Behavioral Endocrinology/Hormones & Behavior*. Psychology, West Virginia University.  
*General Psychology*. Psychology, The Ohio State University.

### **STUDENTS MENTORED**

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#### **Graduate (PhD) Students:**

2024 - present Maria Jaakson, Nursing, University of Connecticut  
2024 - present Shaylan Richards, Psychological Sciences, University of Connecticut  
2022 - 2024 Bright Eze, Nursing, University of Connecticut (Co-advisor with Angela Starkweather)  
2021 - 2023 Carl Erwin Rodriguez, Psychological Sciences, University of Connecticut  
2021 - present Matt Reck, Psychological Sciences, University of Connecticut  
2019 - present Olivia Vanegas, Psychological Sciences, University of Connecticut  
2017 - 2019 Floyd F. Steele, Psychology, West Virginia University  
2017 - 2022 Shane Kaski (Co-sponsor on F30), Physiology & Pharmacology, West Virginia University  
2015 - 2019 Kristen R. Trexler, Psychology, West Virginia University  
2015 - 2019 Joshua Gross (Co-sponsor on F31), Physiology & Pharmacology, West Virginia University  
2013 - 2017 Sara R. Nass, Psychology, West Virginia University  
2013 - 2014 Kristin M. Gabella, Psychology, West Virginia University  
2012 - 2016 Molly S. Crowe, Psychology, West Virginia University

#### **Post-Baccalaureate Students:**

2014 Safiyyah Nomani, West Virginia University  
2010 - 2011 Travis Grim, Virginia Commonwealth University  
2008 Alexa Ebersole, Virginia Commonwealth University

#### **Undergraduate Research Assistants:**

2024 - present Tess David, Physiology & Neurobiology, University of Connecticut  
2023 - present Deondra Owusu, Pre-Nursing, University of Connecticut  
2023 - present Emily Flynn, Physiology & Neurobiology, University of Connecticut  
2023 - present Zoe Kassapidis, Cognitive Sciences, Psychology, University of Connecticut  
2022 - present Shiv Patel, Physiology & Neurobiology, University of Connecticut  
2022 Olivia Crawford, Physiology & Neurobiology, Psychology, University of Connecticut  
2022 - 2023 Frances Kim, Nursing, University of Connecticut

2022 - 2023 Yasmin Schrom, Psychology, University of Connecticut  
 2020 - 2022 Isabella Sanchez (SURF intern, 2021), Nursing, University of Connecticut  
 2020 - 2023 Mackenzie Weng (SURF intern, 2021), Nursing, University of Connecticut  
 2020 - 2022 Ricardo Baltazar-Rojas, Nursing, University of Connecticut  
 2020 - 2021 Troy Moien Afshari, Psychology, University of Connecticut  
 2019 Elijah Cheeks, West Virginia University  
 2019 Tasia Hawks (APA SUPRE intern), Chowan University  
 2019 Thomas McIntosh (WV-INBRE intern), West Virginia Wesleyan College  
 2018 - 2020 Ethan Mick, West Virginia University  
 2018 - 2019 Brian Kotson, West Virginia University  
 2018 - 2019 Asia Taylor, West Virginia University  
 2018 Tania Nguyen (WV-INBRE intern), Shepherd University  
 2018 Annika Naylor (WV-INBRE intern), West Virginia Wesleyan College  
 2017 - 2018 James Jordan (Capstone), West Virginia University  
 2017 Emily Silvestri, (SURI intern), University of New Hampshire  
 2017 Hunter Aliff (WV-INBRE intern), West Virginia State University  
 2017 - 2018 Kristyn Campbell (Honors thesis), West Virginia University  
 2017 Christopher O’Hearn, West Virginia University  
 2016 Morgan Kaiser, West Virginia University  
 2016 - 2017 Joshua Rhudy (Capstone), West Virginia University  
 2016 Darrin “Hunter” LeMasters, (WV-INBRE intern), West Virginia Wesleyan College  
 2016 April Garbuz, (SURI intern), University of Connecticut  
 2015 - 2016 Lindsey Mosmiller, West Virginia University  
 2015 - 2016 Elliott Chiartas (Capstone), West Virginia University  
 2015 - 2016 Nicholas Freeman (Capstone), West Virginia University  
 2015 Ellen Woon, (SURI intern), Purdue University  
 2015 Ben Rein, West Virginia University  
 2014 - 2016 Kate Cardullo (Honors thesis), West Virginia University  
 2014 - 2017 Austin McKitrick (Honors thesis), West Virginia University  
 2014 - 2015 Rachael Taylor (McNair Scholar), West Virginia University  
 2014 Malosree Maitra (SURI intern), Mount Holyoke College  
 2013 - 2014 Margaret Jones (Honors thesis), West Virginia University  
 2013 Benjamin Dearborn (PICS intern), Princeton University  
 2013 Allie Nwosu, West Virginia University  
 2012 - 2014 Christina Bankhead, West Virginia University  
 2012 Anthony D’Ovidio, West Virginia University  
 2012 Austin Sanders, Princeton University  
 2012 Kristina Welch (SURI intern), Oberlin College  
 2012 - 2013 Erica Cole (Honors thesis), West Virginia University  
 2012 - 2013 Jessica Silverman (Capstone), West Virginia University  
 2012 Robert Skaff, West Virginia University  
 2012 Lakin Whitlatch (Capstone), West Virginia University  
 2012 Kelsey Wilson (Honors thesis), West Virginia University  
 2011 Elizabeth Bennett, West Virginia University  
 2010 Alexandra Rhone, Virginia Commonwealth University  
 2009 - 2011 Deborah Karp, Virginia Commonwealth University  
 2005 Eva Pietri, Amherst College

## **Undergraduate Teaching Assistants:**

2019	Bethany Heberling
2017	Megan Bartlett, A.J. Lindsay
2016	Briea St.Clair, Lindsey Mosmiller (Capstone), Megan Bartlett, Jaimie Bennett
2015	Melissa Carr, Kelly Shoemaker (Capstone), Teah Grizzle (Capstone)
2014	Melissa Carr, Caleb Rhodes
2013	Chloe Brown (Capstone), Ryan Arthur, Alexis Claassen, Hannah Lubman
2012	Andrew Lawson (Capstone), Caitlin Montgomery (Capstone), Stephanie Read

## **SERVICE**

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### **Service to the Profession**

UConn Cannabis Research Symposium

Planning committee member (2022-2023)

Event emcee (2023)

2023 Cannabis Research Conference (Colorado State University & Oregon State University)

Planning committee member (2022-2023)

United States Association for the Study of Pain (USASP)

Inclusion, Diversity, Equity & Access (IDEA) Committee

Co-chair (2021-2023)

Member (2021-present)

International Cannabinoid Research Society (ICRS)

Board of Directors (2013-present)

Executive Director (2024-present)

Treasurer (elected position, 2015-2024)

Secretary (elected position, 2013-2015)

NIDA R13 grant (2015-present)

Signing Official, Business Official, Federal Financial Report (FSR Role), Authorized Organization Representative

Subcommittees

Chair, Lifetime Achievement Award Committee (2022-present)

Mentor, ICRS Mentoring Network (2022-present)

Member, ICRS Committee on Awards (2015-present)

Chair (2013-2015)

Organizing Committee (2013-present)

Member, Trainee Travel Award Committee (2012)

Chair, Judging Committee for Best Presentations by Predoctoral Students (2012)

Member, Education subcommittee (2011-2014)

Annual symposium

Session chair, Minor Cannabinoids (2023)

Session chair, Inflammation and Autoimmunity (2017)

ICRS Programme Committee (2016, 2020-2024)

Session chair, Behavioural Neuroscience - Anxiety, Stress (2016)

Session chair, Gastrointestinal Regulation (2012)

Judge, Trainee Awards (2011-present)

Editorial Board Memberships

Frontiers in Pain Research (2021-present)

Frontiers in Behavioral Neuroscience, Emotion Regulation and Processing (2022-present)

Neuropharmacology (2019-present)  
 NIDA Drug Supply Program – reviewer (2022-2023)  
 Northern West Virginia Chapter of the Society for Neuroscience  
 Judge, Chapter Graduate Student and Postdoctoral Fellow Travel Awards (2013)  
 Grant reviewer  
 National Institutes of Health Study sections  
 National Institute of Neurological Disorders and Stroke (NINDS) EPPIC-NET review - Sept 29, 2022, Feb 13, 2023, July 2023  
 ZRG1 MDCN-R (02) Member Conflict: Neurobiology and Neuropharmacology - Aug 2, 2022  
 NIDA ZDA1 PXN-F (01) Pharmacokinetics (PK) and Pharmacodynamics (PD) of THC in Cannabis and Cannabis Products - June, 2022  
 NIDA Core CoE Grant Program (P30/P50 Clinical Trial Optional) review panel - Feb 2022  
 ZRG1 MDCN-G: Special topics P50 study section - July, 2021  
 ZRG1 F02B-E: Sensory and Motor Neuroscience, Cognition and Perception Fellowship Study Section (F30, F31, F32 fellowships) - Oct 2020, July 2021, Oct 2021  
 ZDA1 HXO-H (02): Assessing the Effects of Cannabinoids on HIV-Induced Inflammation (R01 Clinical Trial Optional) - 2020  
 ZGM1 TWD-5 (PR): Review of NIGMS Postdoctoral Research Associate Training (PRAT) applications - 2020  
 ZRG1 MDCN-B (58) R: Synthetic Psychoactive Drugs and Strategic Approaches to Counteract Their Deleterious Effects - 2019  
 ZAT1 PJ(2): Mechanisms of Mind and Body Interventions (MMB) - 2019  
 ZGM1 RCB-A (C1): Centers of Biomedical Research Excellence (COBRE) (P20) - 2018  
 ZAT1 PJ (02) 1: Mechanisms of Mind and Body Interventions (MMB) - 2018  
 Heinrich Heine University Düsseldorf, Germany - 2023  
 Fonds National de la Recherche Scientifique (FNRS), Belgium - 2021, 2022, 2024  
 Consortium for Medical Marijuana Clinical Outcomes Research - 2021  
 US Veterans Affairs VA: RRDA: Spinal Cord Injury/Disorders & Neuropathic Pain - 2017-2018  
 Dutch Organisation for Health Research and Development (ZonMw) - 2017  
 German Research Foundation (DFG) - 2016  
 Prostate Cancer UK - 2015

Journal Reviewer

<i>ACS Chemical Neuroscience</i>	<i>European Journal of Pharmacology</i>
<i>ACS Pharmacology &amp; Translational Science</i>	<i>European Neuropsychopharmacology</i>
<i>Annual Review and Research in Biology</i>	<i>Experimental Dermatology</i>
<i>Behavioral Brain Research</i>	<i>Expert Opinion On Drug Discovery</i>
<i>Biological Psychiatry</i>	<i>Fitoterapia</i>
<i>Bioorganic &amp; Medicinal Chemistry Letters</i>	<i>Frontiers In Behavioral Neuroscience</i>
<i>Brain Research</i>	<i>Frontiers in Pain Research</i>
<i>Brain Research Bulletin</i>	<i>Journal of Cannabis Research</i>
<i>Brain, Behavior, and Immunity</i>	<i>The Journal of Chemical Neuroanatomy</i>
<i>British Journal of Pharmacology</i>	<i>Journal of Medicinal Chemistry</i>
<i>Cannabis and Cannabinoid Research</i>	<i>The Journal of Neuroimmunology</i>
<i>Chemical Neuroanatomy</i>	<i>Journal of Neuroinflammation</i>
<i>Current Medicinal Chemistry</i>	<i>The Journal of Neuroscience</i>
<i>European Journal of Pain</i>	<i>The Journal of Pain</i>

*The Journal of Pharmacology and  
Experimental Therapeutics  
Life Sciences  
Molecular Pain  
Molecular Pharmacology  
Neuropharmacology  
Neurobiology of Stress  
Neuroscience & Biobehavioral Reviews*

*Pain  
Pharmacological Reports  
Pharmacological Research  
Physiology & Behavior  
PLoS One  
Psychopharmacology  
Translational Psychiatry  
Wound Repair & Regeneration*

### **Service to the College/University**

UConn Centers and Institutes Review Committee  
Member (2023-present)

UConn Faculty Review Board  
Member (2022-2023)

UConn Consultant Bureau on Regenerative Engineering  
Member (2022-present)

Merit Committee  
Member (2020-present)

Promotion, Tenure and Reappointment Committee  
Member (2020-present)

Biobehavioral Lab Advisory Committee  
Member (2020-present)

UConn Summer Undergraduate Research Fellowship (SURF)  
Research mentor (2021)  
Reviewer (2020, 2022, 2023)

UConn Institute for Collaboration on Health, Intervention, and Policy (InCHIP)  
Pilot grant reviewer (March 2020, May 2020, Jan 2021)  
Panelist for junior faculty writing R-series grants (2020)

WVU Undergraduate Neuroscience Major Training Committee  
Member (2018-2019)

WVU Institutional Animal Care and Use Committee (IACUC)  
Member (2015-2018)

Eberly College Diversity Committee  
Member (2018-2019)

WV IDeA Network of Biomedical Research Excellence  
Research Mentor (2016-2019)

Center for Neuroscience Summer Undergraduate Research Internship  
Research Mentor (2012-present)

Ronald E. McNair Scholars Program  
Research Mentor (2014)

Princeton Internship in Community Service (PICS)  
Research Mentor (2012-2014)

WV Clinical and Translational Science Institute  
Grant reviewer (2014-present)

WVU Office of Research and Graduate Studies  
Grant reviewer (2014-2019)

Meeting of Behavioral and Biomedical researchers

Faculty Coordinator (2011-2015)

Neuroscience Journal Club

Faculty Coordinator (2012-2015)

WVU Neuroscience Research Group

Faculty Coordinator (2011-2019)

Behavioral Neuroscience Doctoral Training Committee

Chair (2016-2019)

Member (2011-2016)

Faculty Search Committee (2011, 2015, 2019)

Graduate Training Committee

Member (2016-2019)

Faculty Evaluation Committee

Member (2011-2012, 2018-2019)

Behavior Analysis Training Committee

Associate member (2011-2015, 2017-2019)

Faculty Search Committee (2011, 2015, 2017)

Clinical Child Training Committee

Member (2016)

Lifespan Developmental Training Committee (2015-2016)

Safety Committee

Member (2013-2019)

MS Thesis/PhD Dissertation Committees

2023-present Gayle Edelstein, member MS committee

2022-present Skyler Sklenarik, member of PhD committee

2021-2023 Carl Rodriguez, Chair of MS committee

2021-present Matt Reck, Chair of MS committee

2020- present Bright Eze, member of PhD committee

2020-2023 Chris Babigian, member of MS committee

2019-present Olivia Vanegas, Chair of MS and PhD committees

2019-2021 Kristen Pechacek, Member of MS committee

2019-2021 Rebecca Coughron, Member of MS committee

2019-2020 Michelle Frankot, Member of MS committee

2017-2019 Bariş Sevi, Member of MS committee

2017-2019 Devin Galdieri, Member of MS committee

2017-2019 Floyd Steele, Chair of MS committee

2016-2019 Matthew Eckard, Member of MS and PhD committees

2015-2018 Marissa Turturici, Member of MS and PhD committee

2015-2017 Gabrielle Mesches, Member of MS committee

2015-2019 Joshua Gross, Member of PhD committee

2015-2017 Derrick Ward/Remi Black, Member of MS committee

2015-2019 Kristen Trexler. Chair of MS and PhD committees

2015-2019 Forrest Toegel. Member of MS and PhD committees

2013-2017 Nicholas Felicione, Member of MS committee

2013-2015 Stephanie Kincaid. Member of PhD committee

2013-2015 Daniel Weitzner. Member of MS committee  
 2013-2014 Kristin Gabella. Chair of MS committee  
 2013-2017 Sara Nass. Chair of MS and PhD committees  
 2013-2015 Ria Travers. Member of PhD committee  
 2013-2014 Sarah Nunley. Member of MS committee  
 2013-2014 Alexander Ward. Member of MS committee  
 2013-2014 Carolyn Rudy. Member of MS committee  
 2013 William Reilly. Member of PhD committee  
 2012-2016 Molly Crowe. Chair of MS and PhD committees  
 2012-2014 Amanda McBean. Member of PhD committee  
 2012-2014 Margeaux Gray. Member of MS committee  
 2012-2014 Allison Vargovich. Member of PhD committee  
 2012-2014 Amanda Costello. Member of PhD committee  
 2011-2014 Christopher Krebs. Member of PhD committee  
 2011-2015 Jemma Cook. Member of MS and PhD committees  
 2011-2014 Meagan Follett. Member of MS committee  
 2011-2013 Kelsey Meekins. Member of MS committee

#### PhD Candidacy Examination Committees

2023 Carl Rodriguez, Chair  
 A. Matt Reck, Chair  
 2022 Olivia Vanegas, Chair  
 2019 Floyd Steele, Chair  
 2019 Ilana Haliwa, Member  
 2017 Kristen Trexler, Chair  
 2016 Nicholas Felicione, Member  
 2015 Sara Nass, Chair  
 Daniel Weitzner, Member  
 2014 Molly Crowe, Chair  
 Margeaux Gray, Member  
 Holly Hunsberger, Member  
 2013 Kelsey Meekins, Member  
 2012 Amanda McBean, Member

#### Community Involvement/Outreach

CT Medical Reserve Corps volunteer (2021 - present)

#### MEMBERSHIP IN SCIENTIFIC SOCIETIES

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2021 - US Association for the Study of Pain  
 --Co-chair, Inclusion, Diversity, Equity, and Access Committee, 2021-2023  
 2018 - International Association for the Study of Pain  
 2009 - Society for Neuroimmune Pharmacology  
 2007 - Carolina Cannabinoid Collaborative  
 2007 - International Cannabinoid Research Society  
 --Treasurer (elected) 2015-present  
 --Secretary (elected) 2013-2015

**PERSONAL INTERESTS**

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Growing up in northern California, I was fortunate to live within walking distance of a state park, where I spent many days exploring and learning about wildlife. A short childhood illness deepened my lifelong curiosity of the physiology and behavioral effects of chronic pain. When I am not in the lab, I enjoy hiking, gardening, and making pottery.