

Erin L. Martin

125 Doughty Street, Suite 190 | Phone: 843-876-3528 (Office)
Charleston, SC 29403 | Email: marterin@musc.edu

EDUCATION

- 2019 – **Doctoral Candidate**, Neuroscience
Medical University of South Carolina, Charleston, SC
Advisor: Aimee McRae-Clark, Pharm.D.
- 2015 **Bachelor of Arts**, Psychology
University of Maryland, Baltimore County, Baltimore, MD

GRANT SUPPORT

Training Grants

- 6/22 – 5/24 Evaluating Contributors to Relapse in Comorbid Major Depressive Disorder and Cannabis Use Disorder
F31-DA057051 – National Institute on Drug Abuse
Role: Principal Investigator
- 8/20 – 5/22 Drug Abuse Training Program
T32-DA007288 – National Institute on Drug Abuse
Role: Pre-Doctoral Trainee (PI: Jacqueline McGinty, Ph.D.)
- 5/20 – 7/20 Drug Abuse Research Training Summer Research Fellowship
R25-DA020537 – National Institute on Drug Abuse
Role: Summer Trainee (PI: Sudie Back, Ph.D.)

Research Grants

- 5/21 – 4/22 Endocannabinoid Dysregulation in Cannabis Dependence and Acute Cannabis Withdrawal
U54-DA016511 – National Institute on Drug Abuse
Direct cost: \$15,000 (Pilot Award)
Role: Principal Investigator

HONORS & AWARDS

- 2022 SCORE Annual Meeting Flash Talk Award
2022 MUSC Dean's Incentive Award
2022 International Cannabinoid Research Society Trainee Grant
2022 CPDD NIDA Director's Travel Award
2021 International Cannabinoid Research Society Trainee Award
2021 CPDD NIDA Women & Sex/Gender Junior Investigator Travel Award
2015 Cum Laude, University of Maryland, Baltimore County

PUBLICATIONS

Peer-Reviewed Journal Articles

- 8) Garcia-Romeu A, Elmore J, Mayhugh R, Schlienz NJ, **Martin EL**, Strickland JC, Bonn-Miller MO, Munson J,

- Jackson H, & Vandrey R. Online survey of medicinal cannabinoid users: qualitative analysis of users' experiences. *Frontiers in Pharmacology* (2022).
- 7) Sholler DJ, Zamarripa CA, Spindle TR, **Martin EL**, Kuntz D, Vandrey R, & Grabenauer M. Urinary excretion profile of cannabinoid analytes following acute administration of oral and vaporized cannabis in infrequent cannabis users. *Journal of Analytical Toxicology* (2022).
 - 6) **Martin EL**, Strickland JC, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Antidepressant and anxiolytic effects of medicinal cannabis use in an observational trial. *Frontiers in Psychiatry* (2021).
 - 5) **Martin EL**, Doncheck EM, Reichel CM, & McRae-Clark AL. Consideration of sex as a biological variable in the translation of pharmacotherapy for stress-associated drug seeking. *Neurobiology of Stress* (2021).
 - 4) Strickland JC, Jackson H, Schlienz NJ, Salpekar J, **Martin EL**, Munson J, Bonn-Miller MO, & Vandrey R. Cross-sectional and longitudinal evaluation of cannabidiol (CBD) product use and health among people with epilepsy. *Epilepsy & Behavior* (2021).
 - 3) Spindle TR, **Martin EL**, Grabenauer M, Woodward T, Milburn M, & Vandrey R. Assessment of cognitive and psychomotor impairment, subjective drug effects, and blood THC concentrations following acute administration of oral and vaporized cannabis. *Journal of Psychopharmacology* (2021).
 - 2) **Martin EL** & McRae-Clark AL. Evidence for the endocannabinoid system as a therapeutic target in the treatment of cannabis use disorder. *Current Addiction Reports* (2020).
 - 1) Schlienz NJ, Scalsky R, **Martin EL**, Jackson H, Munson J, Strickland JC, Bonn-Miller MO, Loflin M, & Vandrey R. A cross-sectional and prospective comparison of medicinal cannabis users and controls on self-reported health. *Cannabis & Cannabinoid Research* (2020).

Manuscripts in Preparation

- Martin EL** & McRae-Clark AL. Comorbid cannabis use disorder and major depression: insights from neuroscience and clinical implications. (In preparation).
- Martin EL**, Baker NL, Neelon B, Saladin ME, Ramakrishnan V, & McRae-Clark AL. Gender differences in antecedents of cannabis use. (In preparation).
- Martin EL**, Baker NL, Sempio C, Christians U, Klawitter J, & McRae-Clark AL. Sex differences in endocannabinoid tone in cannabis use disorder and acute cannabis withdrawal. (In preparation).
- Martin EL**, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in cortical thickness in cannabis use disorder. (In preparation).
- Martin EL**, Baker NL, Froeliger B, Hill E, Gray KM, Squeglia LM, & McRae-Clark AL. Tobacco co-use influences treatment outcomes in a pilot trial of varenicline for cannabis use disorder. (Under Review).
- Martin EL**, Neelon B, Brady K, Guille C, Baker N, Ramakrishnan V, Gray KM, Saladin ME, & McRae-Clark AL. Gender differences in the prevalence of Adverse Childhood Experiences (ACEs) in people with cannabis, cocaine, opioid, and tobacco use disorders. (Under Review).

PRESENTATIONS

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| 2022 | <p>Martin EL, Baker NL, Sempio C, Christians U, Klawitter J, & McRae-Clark AL. Sex differences in endocannabinoid tone in cannabis use disorder and acute cannabis withdrawal. Oral presentation at the Specialized Centers of Research Excellence on Sex Differences 2022 Annual Meeting.</p> <p>Martin EL. Treatment for cannabis use disorder: importance of individual differences and the endocannabinoid system. Invited oral presentation for the Drugs Research Group in the Institute of Psychiatry, Psychology, and Neuroscience at King's College London.</p> <p>Martin EL & McRae-Clark AL. Sex differences in cannabis withdrawal and the role of the endocannabinoid system. Oral presentation at the 31st Annual International Cannabinoid Research Society Symposium on the Cannabinoids.</p> <p>Martin EL, Baker NL, Neelon B, Saladin ME, Ramakrishnan V, & McRae-Clark AL. Gender differences in antecedents of cannabis use. Oral presentation at the College on Problems of Drug Dependence 84th Annual Scientific Meeting.</p> <p>Martin EL, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in cortical thickness in cannabis use disorder. Poster presented at the Society of Biological Psychiatry 2022 Annual Meeting.</p> |
| 2021 | <p>Martin EL, Neelon B, Brady KT, Guille C, Baker NL, & McRae-Clark AL. Prevalence of adverse</p> |

childhood experiences by primary substance used and gender. Poster presented at the Specialized Centers of Research Excellence on Sex Differences 2021 Annual Meeting.

Martin EL, Baker NL, Flanagan JC, Joseph JE, & McRae-Clark AL. Endogenous and exogenous oxytocin differentially impact stress response on the basis of childhood trauma exposure. Poster presented at the College on Problems of Drug Dependence 83rd Annual Scientific Meeting.

Martin EL, Baker NL, Froeliger B, & McRae-Clark AL. Tobacco co-use influences treatment outcomes in a pilot trial of varenicline for cannabis use disorder. Poster presented at the 30th Annual International Cannabinoid Research Society Symposium on the Cannabinoids.

Martin EL, Baker NL, Froeliger B, & McRae-Clark AL. Tobacco co-use affects treatment outcomes in a pilot trial of varenicline for cannabis use disorder. Oral presentation at the Society for Research on Nicotine and Tobacco 2021 Annual Meeting, part of symposium "Treatment Implications and Considerations for the Co-Use of Cannabis and Tobacco".

2020 **Martin EL**, Doncheck EM, Reichel CM, & McRae-Clark AL. Pharmacological interventions in stress-induced drug-seeking: efficacy across sex and species. Oral presentation at the Specialized Centers of Research Excellence on Sex Differences 2020 Annual Meeting.

Martin EL, Baker NL, & McRae-Clark AL. Varenicline in the treatment of cannabis use disorder: impact of tobacco use. Oral presentation at the College on Problems of Drug Dependence 82nd Annual Scientific Meeting.

2019 **Martin EL**, Spindle TR, Grabenauer M, Milburn MA, & Vandrey R. Assessment of impairment following oral and vaporized cannabis administration in infrequent users. Poster presented at the Carolina Cannabinoid Collaborative Annual Meeting 2019.

Martin EL, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Therapeutic cannabinoids in anxiety and depression: results from an observational research study. Poster presented at the 29th Annual International Cannabinoid Research Society Symposium on the Cannabinoids.

Martin EL, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Therapeutic cannabinoids in anxiety and depression: results from an observational research study. Oral presentation at the 2019 Cannabis Science Conference East.

2018 **Martin EL**, Schlienz NJ, Herrmann ES, Budney AJ, Lee DC, Hampson A, Smith M, Leoustsakos JS, Stitzer ML, & Vandrey R. Targeting sleep in adults seeking treatment for cannabis use disorder. Poster presented at the 32nd Annual Meeting of the Associated Professional Sleep Societies, LLC. Abstract published in *Sleep*, Volume 41, Supplemental Issue.

TEACHING & MENTORSHIP

Teaching

2021 – 2022 **Psychopharmacology: How Drugs Affect Our Thoughts, Feelings, and Behavior.** Lecture delivered to students in the MUSC Summer Undergraduate Research Program (SURP).

Mentorship

2022 Diversity in Addiction Research Training (DART) Near-Peer Mentor, MUSC
2019 Darren Lin – Undergraduate Intern, Johns Hopkins University
2018 Zachary Hyde – Undergraduate Intern, Johns Hopkins University
2017 – 2019 Ryan Scalsky – Undergraduate Intern, University of Maryland, Baltimore County
2017 Paras Dalwadi – Undergraduate Intern, University of Maryland, Baltimore County
2016 Omair Akmal – Undergraduate Intern, Johns Hopkins University

PROFESSIONAL ACTIVITIES & SERVICE

Professional Affiliations

2021 – Student Member, Society of Biological Psychiatry
2020 – Member-in-Training, College on Problems of Drug Dependence

2019 – Predoctoral Member, International Cannabinoid Research Society

Service

2022 – Student Member, Department of Neuroscience Diversity and Inclusion Task Force, MUSC
2021 Trainee Research Fellowship Subcommittee, Society of Biological Psychiatry

Ad Hoc Reviewer

Frontiers in Psychiatry
Cannabis & Cannabinoid Research
Neuroscience & Biobehavioral Reviews
Scientific Reports

CONSULTING

2019 **University of Pennsylvania** (PI: Marcel Bonn-Miller, Ph.D.)
Sleep architecture consultant on Colorado Department of Public Health and Environment grant studying safety and efficacy of cannabis use among veterans with post-traumatic stress disorder (PTSD).