



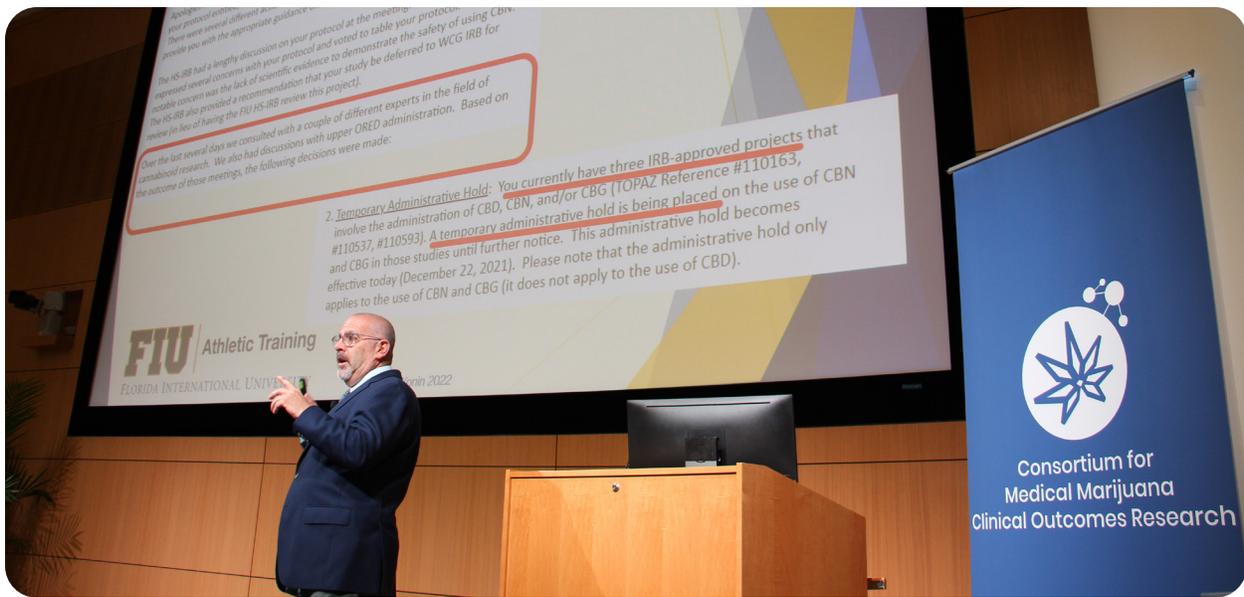
CANNABIS CLINICAL OUTCOMES RESEARCH CONFERENCE (CCORC)

CCORC 2022 SUMMARY

ccorc.mmjoutcomes.org



Consortium for
Medical Marijuana
Clinical Outcomes Research



Cannabis Clinical Outcomes Research Conference (CCORC)

INTRODUCTION

The Consortium for Medical Marijuana Clinical Outcomes Research launched its annual Cannabis Clinical Outcomes Research Conference (CCORC) in 2021. This research-centric meeting, open to patients and providers, offers a venue for sharing research findings, disseminating the latest evidence on the health impacts of marijuana, and catalyzing research collaborations both state-wide and nationally.

The objectives of CCORC are:

- Dissemination of research findings on medical cannabis use, efficacy, safety, and other relevant outcomes
- Provide a venue for clinical and research educational opportunities related to medical cannabis
- Foster research collaboration, and stakeholder engagement, between Consortium member institutions and beyond

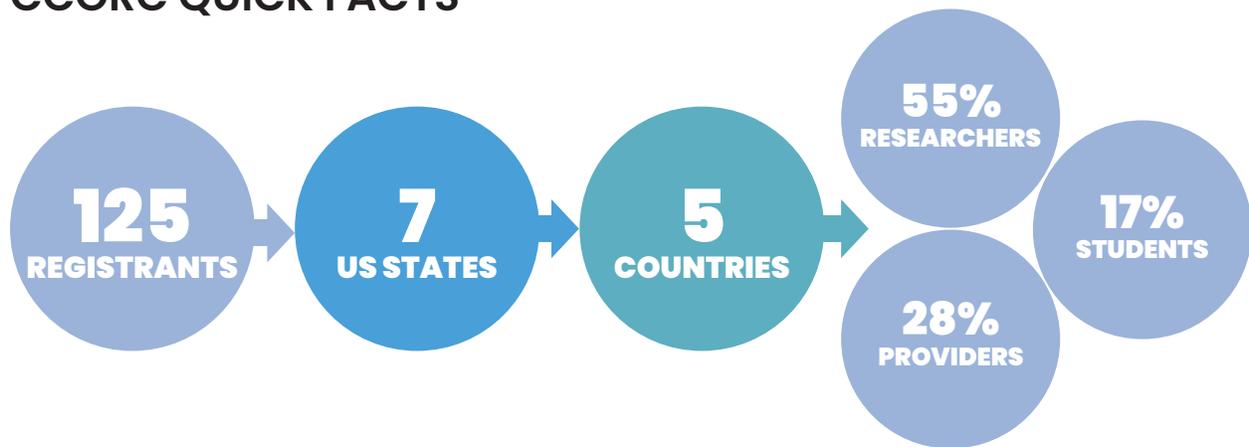
Adapting to conditions created by COVID-19, the Consortium's held its inaugural CCORC conference virtually on April 8th and 9th, 2021. This year, CCORC 2022 was held using a hybrid attendance model; the conference was held in-person at UF's satellite campus in Lake Nona, FL with select presentations available to stream online.

CCORC 2022 OVERVIEW

CCORC 2022 was a **1.5 day** conference gathering medical marijuana researchers, providers, patients, and industry representatives.

The conference featured **3 keynote presentations**, **6 oral presentations** from top abstracts, **2 methods workshops**, a poster session featuring **28 research abstracts** selected following peer review, and **1 panel discussion** with research, administrative, and industry collaborators on a successful MMJ study. Additionally, the conference hosted representatives from **6 exhibitors**.

CCORC QUICK FACTS



THREE THEMES FROM THE CONFERENCE

Disentangling Research Findings Comparing Medical and Non-Medical Cannabis Use and Outcomes



Barriers and Facilitators for Conducting Clinical Cannabis Research



Resolving Uncertainties Around Cannabis Dosing

KEYNOTE SPEAKERS



Staci Gruber, Ph.D.

Director, Cognitive and Clinical Neuroimaging Core, McLean Hospital

Director, Marijuana Investigations for Neuroscience Discovery (MIND), McLean Hospital

Assoc. Prof. of Psychiatry, Harvard Medical School

Keynote Title: *Clarifying Cannabis: Considering the impact of recreational and medical use on cognitive and clinical outcomes*



Samer Narouze, M.D., Ph.D.

Assoc. Prof. of Surgery, Northeast Ohio Medical University

Clinical Professor of Anesthesiology and Neurological Surgery, Ohio State University College of Medicine

President, American Society of Regional Anesthesia and Pain Medicine

Chairman, American Interventional Headache Society

Keynote Title: *Cannabis Use in Pain and as a Substitute for Opioid*



Kent Hutchison, Ph.D.

Prof. of Psychiatry, Anschutz Medical Campus

Adjunct Prof. of Psychology and Neuroscience, University of Colorado in Boulder

Keynote Title: *Effects of THC and CBD: Implications for Future Clinical Trials*

Topics Covered:

- Use patterns and observed clinical outcomes in medical/non-medical cannabis users
- Reframing research questions to focus on risk-benefit vs. solely on harm
- Shortage of translational research in cannabis research
- Lack of consistency in definition of clinical outcomes, sample size constraints and difficulties with blinding and other methodological issues



ORAL PRESENTATIONS|WORKSHOPS|PANEL DISCUSSION

Attendees engaged with a wide range of topics related to cannabis research via oral presentations of top abstracts, method workshops, and a panel discussion. Each segment included a Q&A portion allowing audience members to further the conversation and contribute context from their perspectives within the world of medical marijuana.

Three of the six top abstracts selected for oral presentation were submitted by student researchers.



Erin Berthold

Ph.D. Candidate, Department of Pharmaceutics,
University of Florida

Abstract Title: *Preclinical Herb-Herb Interaction of Cannabidiol and Kratom in Rats*



Alexandra McMahon, MPH

Graduate Student, Department of Epidemiology,
University of Florida

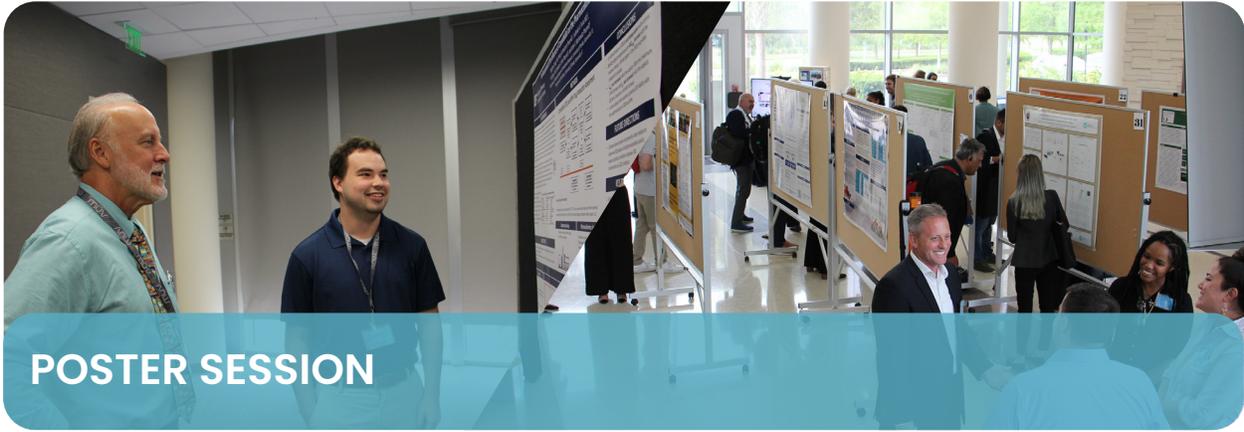
Abstract Title: *Perceived Effectiveness of Medical Marijuana Among Adults with Chronic Pain: Findings from Interview Data in a Three-Month Pilot Study*



Alexis Noel Cox, B.Sc.

Undergraduate Scholar, Department of Biological Science and
Program in Neuroscience, Florida State University

Abstract Title: *Perinatal Cannabidiol Exposure Decreases Survival in Mice, and Impacts Anxiety-like and Obsessive Compulsive-like Behavior and Object Memory in a Sexually Dimorphic Manner When Raised to Adult*



POSTER SESSION

A poster session highlighting twenty eight abstracts selected following peer review provided an opportunity for research faculty and students from all nine Consortium–member institutions to present their work. A jury of experts scored each of the posters, awarding a prize to the top scoring poster presentation.

CCORC 2022 Best Poster Presentation:



Amanda Pacheco–Spiewak
Research Associate, University of Miami

Poster Title: Mechanistic evaluation of combined Cannabis components cannabidiol and β -caryophyllene in reducing chronic pain in a rat SCI model



CONTINUING EDUCATION CREDITS OFFERED

Starting in 2022, CCORC now offers Continuing Medical Education (CME) and Continuing Pharmacy Education (CPE) credits for physicians as well as pharmacists attending the conference. Stay tuned for next year’s Continuing Education offerings for clinicians.



EXHIBITORS

Representatives from industry and outreach-focused organizations were present to engage with attendees about their roles in cannabis research.

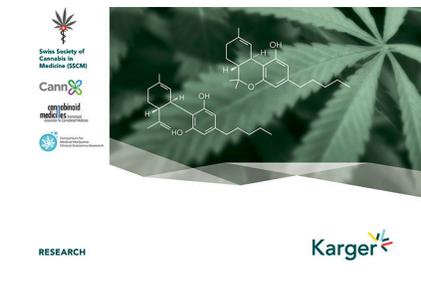
Exhibitors at CCORC 2022:



CONFERENCE PROCEEDINGS PUBLISHED



Medical Cannabis and Cannabinoids



The proceedings and abstracts for CCORC 2022 have been published in the official journal of the Consortium, **Medical Cannabis and Cannabinoids**. This peer-reviewed journal offers an international forum to present and discuss recent advances in the rapidly developing and challenging field surrounding the medical use of cannabis and cannabinoids. Inclusion in the journal expands the dissemination of the research presented at CCORC 2022 as well as increasing awareness for the conference at large.

[Read CCORC 2022 proceedings here >](#)

[Read CCORC 2022 abstracts here >](#)

For more information on **Medical Cannabis and Cannabinoids**, please visit karger.com/mca

PROGRAM AT A GLANCE

May 19, 2022

TIME EDT	EVENT
9:00-9:30am	<p>Day 1 Welcome Address Δ</p> <p>Dr. Almut Winterstein Consortium for Medical Marijuana Clinical Outcomes Research University of Florida</p> <p><i>Agenda Overview and Introduction to Keynote</i></p> <p>Dr. Amie Goodin Consortium for Medical Marijuana Clinical Outcomes Research University of Florida</p>
9:30-10:45am	<p>Keynote: Clarifying Cannabis: Considering the impact of recreational and medical use on cognitive and clinical outcomes* Δ</p> <p>Dr. Staci Gruber McLean Hospital Harvard Medical School</p>
10:45-11:00am	<p>Exhibitor Hall, Coffee Break</p>
11:00-12:00pm	<p>Session: Methods Workshop for Measurement Techniques When Conducting Clinical Cannabis Research</p> <p><i>EMA Assessment Strategies for Medical Marijuana Use and Outcomes</i></p> <p>Dr. Yan Wang University of Florida Consortium for Medical Marijuana Clinical Outcomes Research</p> <p><i>Self-Reported Use Measures and Instruments</i></p> <p>Dr. Catalina Lopez-Quintero University of Florida</p> <p><i>Measuring Doses and Dosing</i></p> <p>Dr. John Markowitz University of Florida</p>
12:00-1:00pm	<p>Lunch</p>
1:00-2:15pm	<p>Keynote: Effects of THC and CBD: Implications for Future Clinical Trials* Δ</p> <p>Dr. Kent Hutchison Anschutz Medical Campus University of Colorado in Boulder</p>
2:15-2:30pm	<p>Exhibitor Hall, Coffee Break</p>
2:30-3:30pm	<p>Session: Presentations and Q&A of Top Abstracts</p> <p>Dr. Dinender Singla, University of Central Florida, Moderator</p> <p>Dr. Karina Villalba University of Central Florida</p> <p>Dr. Amie Goodin University of Florida</p> <p>Dr. Andrea Cippitelli Florida Atlantic University</p>

TIME EDT	EVENT
3:30-4:15pm	Session: IRB Challenges and a Proposed Solution Dr. Jeff Konin Florida International University
4:15-5:00pm	Workshop: Extending Florida's Adverse Event Reporting System Sebastian Jugl University of Florida
5:00-6:15pm	Poster Sessions and Exhibitor Hall, Networking Reception

May 20, 2022

TIME EDT	EVENT
8:00-8:15am	Day 2 Welcome Address Δ Dr. Robert L. Cook Consortium for Medical Marijuana Clinical Outcomes Research University of Florida
8:15-9:30am	Keynote: Cannabis Use in Pain and as a Substitute for Opioids* Δ Dr. Samer Narouze Northeast Ohio Medical University Ohio State University College of Medicine American Society of Regional Anesthesia and Pain Medicine American Interventional Headache Society (AIHS)
9:30-10:30am	Session: Presentations and Q&A of Top Abstracts Nicole Smolinski, PharmD, University of Florida, Moderator Erin Berthold University of Florida Alexis Cox Florida State University Alexandra McMahon University of Florida
10:30-10:45am	Exhibitor Hall, Coffee Break
10:45-11:30am	Session: Regulatory Challenges in Conducting Cannabis Research in Florida: A Panel Discussion Dr. Robert L. Cook Consortium for Medical Marijuana Clinical Outcomes Research University of Florida <i>Panel Members: Sheila Austin, MS, ACRP-CP; Paul A. Borsa, Ph.D., ATC; Anthony Ferrari, Ph.D.; Paul R. Peluso, Ph.D.</i>
11:30-12:00pm	Closing and Reception, Awards Ceremony Δ Dr. Ximena Levy Consortium for Medical Marijuana Clinical Outcomes Research Florida Atlantic University
12:00-1:00pm	Board Meeting and Invited Lunch Reception



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SAVE THE DATE FOR 2023



CANNABIS CLINICAL OUTCOMES RESEARCH CONFERENCE 2023

MAY 18-19, 2023 | ORLANDO, FL

Learn, Share, and Advance Medical Marijuana Research

MORE INFORMATION AT [CCORC.MMJOUTCOMES.ORG](https://ccorc.mmjoutcomes.org)



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