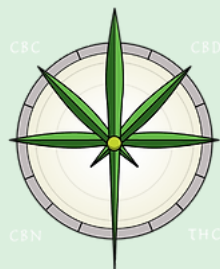


2023 CANNIBIS RESEARCH CONFERENCE

AUGUST 3-5
AURARIA CAMPUS
DENVER, COLORADO
900 AURARIA PKWY



2023
**CANNABIS
RESEARCH
CONFERENCE**

HOSTED BY
 **Institute of
Cannabis Research**
COLORADO STATE UNIVERSITY PUEBLO
 **Oregon State University**
Global Hemp
Innovation Center

The 7th annual 2023 Cannabis Research Conference (CRC) will be held on August 3–5, 2023, located on Auraria Campus in Denver, Colorado.

This is a multi-disciplinary, three-day conference that explores the latest in cannabis science and innovation for applications in medicines, foods, materials, and textiles that can improve people's lives and better society.

The 2023 Cannabis Research Conference allows you to connect with the brightest innovators addressing unique and timely topics and will feature:

- More than 100 Live Presentations
- Exhibit Hall
- Poster Hall
- Student Poster Content and More!

[REGISTER HERE](#)

There is no better time or place to connect with cannabis experts actively conducting new research and business ventures in:

- Biology, Chemistry, Physiology, and Agronomy of Cannabis
- Business and Economic Development
- Cannabis Education
- Hemp Cultivation, Processes, and Uses
- Medical and Clinical Research
- Public Policy and Regulation
- Quality Assurance and Quality Control of Cannabis Products

Join us in exploring NEW cannabis research frontiers...

In this Issue

2023 Cannabis Research Conference

- Mechulam Lecture – Esther Shohami, PhD
- Keynote Speaker – Sofia Thanhauser
- Featured Speaker: Sergiy Kovalenkov

JCR Highlights

- Journal Impact Factors

Upcoming Webinars:

Cannabis Research Webinar Series:

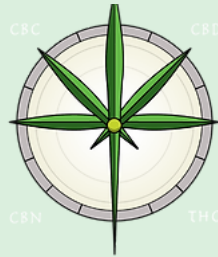
- July 13th 1:00PM MST Dr. Jodi Gilman

Cultivation Webinar Series:

- July 19, 11:00AM MST Dr. Jan Fredrik Stevens
- Aug 23, 11:00AM Dr. Mark Lefsrud
- Sept. 13, 11:00AM Dr. Jim Faust

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Dr. Esther Shohami, PhD

MECHOULAM LECTURE

Dr. Esther Shohami

"The Protective Role of Endocannabinoids in Traumatic Brain Injury"

Thursday, August 3rd 12:45PM-1:45PM

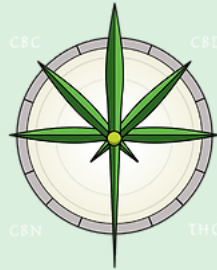
This presentation is dedicated to the memory of Prof. Rafi Mechoulam, the pioneer and founding father of cannabis as a novel research field in basic and clinical science.

Esther Shohami, PhD received her doctorate in Physiology from the Hebrew University (HU), Jerusalem, Israel and did her post-doc at MC-Gill University in Montreal, Canada. She later joined the HU School of Pharmacy at the faculty of medicine and is currently a Professor Emerita in Pharmacology at the HU Institute for Drug Research. Between 2006 - 2011 she served as the Dean of students at her University, and between 2012-2014 as the president of the Israel Society for Neuroscience. She is a member of the executive board of the International Neurotrauma Society (INTS) and serves on the editorial boards of J. Neurotrauma. She also served as a council member of the US National Neurotrauma Society and on the editorial board of J. CBF & M.

Prof. Shohami has published more than 220 articles, reviews, and book chapters. Her research is focused on experimental traumatic brain injury (TBI) in rodents and addresses mechanisms of injury (e.g. inflammation, oxidative stress, the glutamate NMDAR) and endogenous neuroprotection (e.g. endocannabinoids and heat-acclimation induced preconditioning). Currently, her work focuses on the effects of TBI on cognitive functions and on mechanisms involved in ameliorating these TBI-induced deficits. She also studies the involvement of the endocannabinoid system in the pathophysiology and rehabilitation after TBI and is involved in developing cannabinoid-like novel drugs for TBI. The protective Role of Endocannabinoids in Traumatic Brain Injury. Traumatic brain injury (TBI), a major health problem with significant, worldwide socioeconomic burden affecting millions of people, is a complex, dynamic and heterogeneous pathology. To date, there is no effective treatment to this "silent epidemic." TBI triggers the accumulation of harmful mediators and results in injury cascades that evolve into chronic brain damage. However, endogenous, protective mechanisms to attenuate damage are also set in motion. In this presentation we will discuss the role the cannabinoids play to improve the outcome of TBI, in a mouse model of closed head injury.

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Dr. Sofia Thanhauser, PhD

Keynote Speaker

"Hemp and the Future of Clothing"

Friday, August 4th 8:15AM-8:45AM

Sofia Thanhauser is the author of *Worn: A People's History of Clothing* (Pantheon, 2022). She teaches in the writing department at Pratt Institute. She has received fellowships from the Fulbright Program, MacDowell, and Ucross Foundation. Her writing has appeared in *The Guardian*, *Vox*, *Essay Daily*, and *The Establishment*, among other publications.



Sergiy Kovalenkov

Featured Speaker

"Changing the World Naturally"

Friday, August 4th 2:00PM-2:25PM

Sergiy Kovalenkov is one of the most renowned hemp builders in the world and has been part of the hemp-building industry for more than 12 years.

In 2015, he founded "Hempire UA" in Ukraine, the company which has developed a 100% natural "Fifth Element" binder that, when mixed with hemp and water, would create one of the lightest, carbon-negative hempcrete insulation on the planet, called Hempire Mix. Until the Russian invasion in 2022, under Sergiy's command, Hempire has been one of the leaders in the hempcrete industry, picking up high recognition and numerous awards during international green tech and environmental contests while successfully supplying the Ukrainian and EU markets with its innovative products. Over the last few years, Hempire has constantly been working towards bringing new products to the market, such as: new hemp-based insulation panels with natural adhesives, pre-bagged hemp-lime plaster, and hemp-clay pasters. Many projects have been completed using Hempire products.

JOURNAL OF CANNABIS RESEARCH



Journal of Cannabis Research

The Journal of Cannabis Research (JCR) is the official publication of the Institute of Cannabis Research. It is the only broadly multidisciplinary journal of cannabis research, encompassing not only clinical and scientific research, but also research into social,

business, economic, legal, environmental, and ethical impacts of cannabis use and the changing legal status of cannabis. To learn more about the aims and scope of the journal as well as submission guidelines, please visit:

Journal of Cannabis Research

<https://jcannabisresearch.biomedcentral.com>

Below are the impact factors for the JCR:

- The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of
- Science Core Collection. It should be used with careful attention to the many factors that influence
- citation rates, such as the volume of publication and citations characteristics of the subject area and
- type of journal. The Journal Impact Factor can complement expert opinion and informed peer review.
- In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a
- proxy measure for individual researchers, institutions, or articles. [Learn more](#)

The Institute of Cannabis Research is accepting donations to support future cannabis research. You, our friends, colleagues and supporters, have the ability to help us continue with cutting edge research by donating to the ICR Research Fund. Please consider contributing to this important research to enhance our understanding of the applications and impacts of cannabis. All donations contributed are tax deductible. Please consider a year-end donation or feel free to contact the Foundation Office to learn of donations through wills, trusts, and etc.

[Donate Here](#)

ICR RESEARCH



Our funded FY23 Research Studies have been reviewed. Funded projects focus on topics related to cannabis research, including biology, chemistry, physiology, and agronomy; medical and clinical research; and public health and harm reduction/societal impacts.

The FY24 Research Studies are currently being reviewed and selections will be made in August.

Please find the link to all of the FY23 awardees here:

<https://www.csupueblo.edu/institute-of-cannabis-research/research/research-studies/index.html>

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UPCOMING WEBINARS



Institute of Cannabis Research
at Colorado State University Pueblo

**Cannabis
Research
Webinar
Series**



Jefferson
Thomas Jefferson University

**Lambert Center for
the Study of Medicinal
Cannabis & Hemp**

July 13th Webinar: The ICR and Lambert Center are pleased to host Dr. Jodi Gilman for the webinar on July 13th, 1:00PM MST [Register Here:](#)

Title: Identification of THC Impairment Using Functional Brain Imaging



Dr. Jodi Gilman

Dr. Jodi Gilman is an Associate Professor in Psychiatry at Harvard Medical School and the Director of Neuroscience at the Massachusetts General Hospital Center for Addiction Medicine. She received her PhD in Neuroscience from Brown University. Dr. Gilman's research uses multi-modal imaging, behavioral and cognitive testing to understand the biological, psychological, and clinical aspects of addiction. Specifically, she studies the effects of cannabis use on addiction and other health outcomes. Her goal is to conduct research that can inform decision-making among the public, patients, and clinicians regarding evidence-based decisions to use or not use cannabis for recreational or medical purposes. Her work has been featured in media outlets throughout the world, including Reuters, NPR's Science Friday, and the BBC.

Dr. Gilman has received numerous awards, including the Fellows Award for Research Excellence from the National Institutes of Health.



**Institute of
Cannabis Research**
COLORADO STATE UNIVERSITY PUEBLO

CANNABIS CULTIVATION
Webinar Series



July 19th Webinar: The ICR Hemp Farmers Association is pleased to host Dr. Jan Frederik Stevens on Wednesday, July 19th, at 11:00AM MST [Registration Here:](#)

Title: "Chemistry and Pharmacology of Cannabinoids"

Jan Frederik ('Fred') Stevens earned his M.S. in pharmacy (1988), Pharm.D. (1990), and Ph.D. in medicinal chemistry (1995) from the University of Groningen, The Netherlands. He received postdoctoral training at Oregon State University (1995-1999), the Free University of Amsterdam (1999-2000), and the Leibniz Institute for Plant Biochemistry, Halle/Saale, Germany (2000-2002). In 2002, he joined the faculty at Oregon State University (OSU), Corvallis, where he holds positions as Professor of Pharmaceutical Sciences and Associate Dean for Research in the College of Pharmacy. He has authored more than 174 articles in peer-review journals (Web of Science h-index 47; Google Scholar h-index 54). He received five awards for excellence in teaching at the OSU College of Pharmacy. He holds a guest professorship at the University of Antwerp, Belgium, where he teaches a course on medicinal natural products. He serves on the Executive Editorial Board of Molecular Nutrition & Food Research and has served the Phytochemical Society of North America as President (2013-2014). In 2022, he accepted the role of President of the World Polyphenols Congress. His research, funded by the National Institutes of Health and the US Department of Agriculture, aims to determine the role and function of dietary phytochemicals in human health and disease. More than 90 postdoctoral fellows, graduate students, undergraduate students, visiting scholars, and foreign exchange students received research training in the Stevens Laboratory. Mass spectrometry-based metabolomics is a major research tool in his laboratory for the discovery of biological effects of vitamins and phytochemicals in cultured cells, animal models of disease, and in humans.



Dr. Jan Frederik Stevens

UPCOMING WEBINARS



CANNABIS CULTIVATION Webinar Series



August 23rd Webinar: The ICR Hemp Farmers Association is pleased to host Dr. Mark Lefsrud, Ph.D, on Wednesday, August 23rd, at 11:00AM MST [Register Here:](#)
Title: Cannabis Production and Processing from a Canadian Perspective.

Dr. Lefsrud is an Associate Professor at McGill University and leads the Biomass Production Laboratory. His education is a B.Sc. (USask) and M.Sc. (Rutgers) in Agricultural and Bioresource Engineering and a Ph.D. (UTenn) in Plant Physiology giving him a background in agriculture, biology, and engineering. The laboratory's primary goal is the improvement of plants for human consumption (food security), post harvest processing, and energy. Within the focus of food security, we are investigating methods for controlled environment agriculture (CEA) and indoor plant environments (IPE) including research for: medicinal cannabis, northern greenhouses, tropical greenhouses, greenhouse heating using wood pellets (with direct combustion and gasification), light emitting diodes, HVAC and technologies for improving vertical farming. He is an active member of ASABE, having co-authored and published three standards. Dr. Lefsrud has an extensive and impressive history of industry collaboration, having consulted, advised, or initiated long-term research projects with over 100 different companies. Prior to the legalization of adult use cannabis, Dr. Lefsrud was invited as an expert witness to the Canadian Senate for his insight into the impact of cannabis products on the environment. Since 2020, Dr. Lefsrud directs the successful NSERC CREATE in QAQC for Cannabis Production, Products and Training Program (or QAQCC). This collaborative initiative, in partnership with Health Canada, the University of Ottawa and the University of Saskatchewan, and cannabis industry stakeholders aims to improve the quality and safety for cannabis products through R & D, improved methods and standardization. Current research supervised by Dr. Lefsrud in this area include, but are not limited to identification of mycotoxins in cannabis products, improved extraction and distillation, as well as sustainable crop production and the manipulation of light spectra with LEDs to enhance secondary metabolite production.



Dr. Mark Lefsrud, Ph.D

September 13 Webinar: The ICR Hemp Farmers Association is pleased to host Dr. Dr. Jim Faust on Wednesday, September 13th, at 11:00AM MST [Register Here:](#)
Title: "Nutrient Restriction (AKA Flushing): An old idea with a new twist"



Dr. Jim Faust

Dr. Jim Faust is a professor of floriculture physiology at Clemson University in South Carolina, US, where he teaches hydroponics and greenhouse production courses and does research on Cannabis mother plant production, propagation, height control, flowering and postharvest drying and curing. He and Dr. Allison Justice started the Cannabis Research Coalition in 2022 to introduce more science into cannabis production methods. He also does research on cut flower production and postharvest issues.