

Institute of Cannabis Research

COLORADO STATE UNIVERSITY PUEBLO



ICR GOVERNING BOARD WELCOMES MIKE HENNESSY



Mike Hennessey

Mike Hennessey is Vice President of Innovation at Wana Brands, the farthest-reaching regulated edibles company in North America. Hennessey leads Wana's R&D program, overseeing new product development, technology partnerships, and educational training content.

In his 10 years with Wana, Hennessey has spearheaded the development of several innovative product lines, including fast-acting Wana Quick Gummies, which ranked in the top 10 best-selling edibles in Colorado less than a year after their launch. More recently, he oversaw the launch of five first-of-their-kind wellness products – known as the Wana Optimals line – including calibrated cannabinoid-terpene

formulations for better sleep, stress relief, pain management, and mood enhancement.

Outside his work at Wana, Hennessey has taken an active role in shaping Colorado's cannabis policy. He's participates in the Colorado Marijuana Enforcement Division's Science and Policy Work Group and has lent his expertise to the Colorado Marijuana Education Oversight Committee since 2019. Most recently, Hennessey was selected to join the

Colorado SB 22-205 Task Force on Intoxicating Hemp Cannabinoids. With his help, the Task Force drafted the legislation for SB-271, a bill which imposed common sense consumer protection regulations on the expanding hemp-derived cannabinoid industry. Governor Jared Polis signed SB-271 into law last year.

Hennessey graduated from the University of Maryland with a Bachelor's degree in Environmental Science and Technology. In 2021,[KM2] [MH3] he received his Master's Degree in Cannabis Science and Therapeutics from University of Maryland's School of Pharmacy. He is a member of the International Cannabis Research Society (ICRS), the Institute of Food Technologists (IFT), National Organization for the Reform of Marijuana Laws (NORML) and Students for Sensible Drug Policy (SSDP). A lifelong lover of the outdoors, he brings a unique and varied background to the cannabis industry as a certified Rescue Diver and Eagle Scout. In his spare time, he can usually be found camping, hiking, mountain biking, or snowboarding in the mountains around Boulder, Colorado.

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2024 Cannabis Research Conference

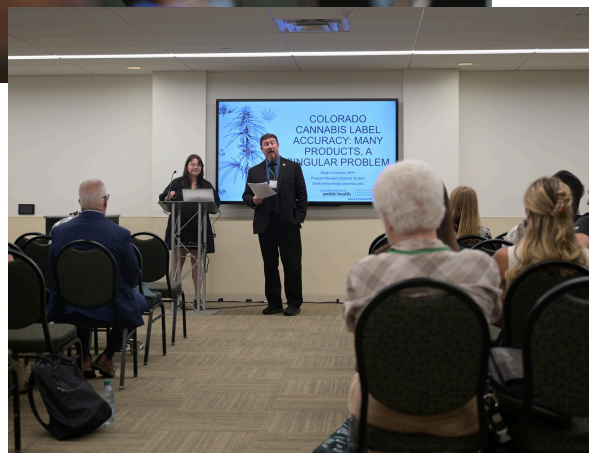


The Institute of Cannabis Research and the Global Hemp Innovation Center hosted the 8th iteration of the conference series that is now known as the **Cannabis Research Conference (CRC)**. The conference was held on the beautiful Colorado State University (CSU) campus in Fort Collins, CO. The CRC program consisted of a diverse collection of 28 different sessions comprised of 130 different presentations. The program was developed by the Program Planning Committee, which was chaired by Dr. Punya Nachappa who is an Associate Professor of Agricultural Biology at CSU.

Like any good research conference, the CRC program is driven by cutting edge research presented by those conducting the research. Presentations stimulated lively discussions that help push the state of knowledge forward. Topics ranged from biomedical research, to analytical measurements and quality control, to measures of public health, economic impacts, cannabis education, and beyond. The diversity of cannabis research topics is a hallmark of the CRC, and a quality that makes it a premier research conference in the cannabis research space. It is transformative to have regulators talking with analytical chemists and policy makers, epidemiologist, pharmacologist, materials scientists all sitting around the same table talking about the interrelationship in the work they do.

As a whole the CRC 2024 was an overwhelming success thanks to the quality and quantity of cannabis research presented. The conference was a good reminder of the importance of the cannabis research that has been and is being conducted.

The ICR would like to especially thank the partner organizations and sponsors that helped make the conference a success. Without their valuable investments it would be far more difficult to put on a conference like the CRC. Please find a list of the conference sponsors on the following page of this newsletter. If you are not familiar with any of the sponsors, you are encouraged to follow the hyperlinks to their webpages to learn more about them. Although a little downtime from conference planning is a nice thing, it is not too early to think about CRC 2025, which is planned for October of 2025 in Portland, OR. What cannabis research are you going to present? What cannabis research topics are at the forefront of your thoughts? See you in Portland next year.



Sponsors



Thank you to all of our wonderful sponsors for your support of the 2024 CRC! We couldn't do it without you!!



**NEW WEST
GENETICS**



Journal of Cannabis Research

Journal of Cannabis Research



Journal of Cannabis Research

The *Journal of Cannabis Research* (JCR) is the official publication of 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](#)

Recent Articles:

- [Introduction to the special issue: the two sides of hemp: medical and industrial](#)
- [Selected cannabis cultivars modulate glial activation: in vitro and in vivo studies](#)



Dr. David Gorelick, Editor-in-Chief
of the *Journal of Cannabis Research*

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Journal of Cannabis
Research

Partnerships



ICR Partners with Jeonbuk National University to Establish Global Efficacy and Toxicity Validation Center for Cannabinoid Research

On August 5, the Institute of Cannabis Research (ICR) proudly signed two significant Memorandums of Understanding (MOUs) with prestigious institutions in South Korea, marking a major step forward in our mission to advance cannabinoid research.

The first MOU was established with the Biomedical Research Institute, Non-Clinical Evaluation Center, and Research Center for Pulmonary Disorder at Jeonbuk National University (JNU) Hospital. The second MOU was signed with the Pharmacology Laboratory and Cannabis Research Laboratory at JNU's School of Pharmacy.

These collaborations aim to enhance cannabinoid pre-clinical research through a joint effort between ICR and JNU, one of South Korea's leading national universities.

Founded in 1947, JNU is renowned for its excellence in medical and pharmaceutical research, particularly in pre-clinical studies utilizing various animal models to evaluate medicines and functional foods.

Under these MOUs, ICR and JNU will work together to establish a world-class "Efficacy and Toxicity Validation Center" dedicated to cannabinoid-based medicines, health supplements, and food and beverage products. This center will focus on in vitro/in vivo, pre-clinical, and clinical research, with the goal of becoming a global leader in cannabinoid efficacy and toxicity evaluation.

This partnership represents a vital first step toward creating a comprehensive research model that could position ICR and its international collaborators at the forefront of cannabinoid medicine research worldwide.



Provost Dr. Gail Mackin, and ICR Director, Dr. Chad Kinney, center, with dignitaries from JNU and members of the ICR

The Institute of Cannabis Research is pleased to share this opportunity for the upcoming CMCR Symposium



October 17-18, 2024
Virtual Conference

2024 CMCR SYMPOSIUM

Cannabis, Cannabinoids, Cancer, and Longevity

Center for Medicinal Cannabis Research • UC San Diego • cmcr.ucsd.edu



Save the Date for the 2024 CMCR Symposium!

The Center for Medicinal Cannabis Research (CMCR) at UC San Diego will host a free, virtual two-day symposium on Thursday and Friday, October 17 and 18, 2024 from 8AM-12 Noon Pacific Time (11AM-3PM Eastern Time), Cannabis, Cannabinoids, Cancer, and Longevity.

We will kick off the symposium with keynote addresses from the 2024 CMCR award recipients, Dr. Alexandros Makriyannis (Northeastern University) and Dr. Mark Ware (McGill University). The main scientific session of the 2024 CMCR Symposium will highlight emerging clinical and translational research on the role of cannabis, cannabinoids, and the endocannabinoid system in healthy aging, dementia, and cancer biology. We will also explore cannabis use among older adults and people with cancer and, in a panel with representatives from the National Institutes of Health, future directions in cannabis research. Each session and panel discussion will be moderated to facilitate discussion and answer questions from the audience.

The event is free and open to the public. To register for the event, click [here](#). For up-to-date information, please visit our [website](#) or [follow](#) us on social media.

Attention trainees and faculty: A virtual poster session highlighting emerging findings in medicinal cannabis research will take place on Thursday, October 17, 2024 from 12PM-1PM Pacific (3PM-4PM Eastern). We welcome the submission of any abstract broadly related to research of cannabis, cannabinoids, the endocannabinoid system, and/or health. If you wish to be considered for a poster presentation, please mark the appropriate box when you register for the event. We will then follow up with you with additional details on how to submit your abstract and prepare your presentation.

Attention clinicians: Free CME is still available for the 2023 CMCR Symposium. To view the activity and claim CME, visit <https://ucsd.cloud-cme.com/course/courseoverview?P=0&EID=2266>.

We look forward to seeing you at the 2024 CMCR Symposium!

Upcoming Webinars



Carrie Cuttler, PhD

CANNABIS RESEARCH WEBINAR SERIES **September**

TITLE: Chronic and Acute Effects of High Potency Cannabis Flower and Concentrates on Cognition

DATE: Sept 12, 1:00PM MST [REGISTER HERE:](#)

Dr. Carrie Cuttler received her Ph.D. in Psychology at the University of British Columbia (UBC) and subsequently conducted a post-doctoral fellowship in the Department of Psychiatry at UBC. She is currently an Associate Professor and Director of the Experimental Psychology Doctoral Program at Washington State University (WSU). The Health and Cognition (THC) Lab that Dr. Cuttler directs focuses on investigating the beneficial and detrimental effects of chronic cannabis use and acute cannabis intoxication. Her recent work focuses on examining effects of cannabis use on cognition (e.g., memory, decision-making, executive functioning, creativity, attention), mental health (e.g., depression, anxiety, OCD, PTSD, ADHD, autism), physical health (e.g., pain, sleep), and stress. She has published several books and over 65 peer-reviewed journal publications. Her cutting-edge work has been featured in Forbes, the Washington Post, High Times, and Newsweek.



Godfrey Pearlson, MD

CANNABIS RESEARCH WEBINAR SERIES **October**

TITLE: Cannabis and driving: knowns and known unknowns

DATE: October 10, 1:00PM MST [REGISTER HERE:](#)

Dr. Pearlson is currently Professor of Psychiatry and Neuroscience at Yale University Medical School & founding director of the Olin Neuropsychiatry Research Center (www.NRC-IOL.org) and the director of research, at the Institute of Living/Hartford Hospital in Hartford CT. His research uses neuroimaging as a tool to address a broad array of questions regarding the neurobiology of major mental disorders, primarily psychosis (B-SNIP Consortium) and substance use/abuse.

He is the author of the popular science book *The Science of Weed*, to be published by Johns Hopkins University press in November 2024-see godfreypearlson.com

Upcoming Webinars



Suman Chandra, MPhil, PhD

CANNABIS PLANT SCIENCE & CULTIVATION SERIES **September**

**TITLE: Cannabis: An Old Plant with New Horizons,
Botany and Biomass Production for the Drug
Development**

DATE: September 18th, 11:00AM MST [REGISTER HERE:](#)

Dr. Chandra earned his M.Phil. degree in Environmental Plant Physiology and his Ph.D. in Plant Physiology from The High Altitude Plant Physiology Research Center, HNB Garhwal University (A Central University), India. From 1992 to 2000, he conducted research on the "Impact of climate change on rare and endangered alpine medicinal plants" at the High Altitude Plant Physiology Research Centre and GB Pant National Institute of Himalayan Environment, India.

Dr. Chandra joined The University of Mississippi in 2001 and is currently working as Principal Scientist at The National Center for Natural Product Research, Research Institute of Pharmaceutical Sciences (RIPS), School of Pharmacy. He also serves as Co-Director of NIDA Marijuana Project at the University of Mississippi. His research interests include the conservation, cultivation and improvement of medicinal plants, and effects of climatic changes on physiology and secondary metabolites of medicinally important plants.

Dr. Chandra has more than 20 years of experience in the field of cannabis research with a focus on cannabis botany, biotechnology, phytochemistry and production of standardized biomass product for the cannabis-based drug development. He has more than 100 publications and two edited books in his credit.

CANNABIS PLANT SCIENCE & CULTIVATION SERIES **October**

TITLE: TBA

**DATE: October 16th, 11:00AM MST [REGISTRATION](#)
[FORTHCOMING](#)**



A Deeper Look At Hemp

Photos by Dr. Eun-Soo Kim



To analyze the cannabinoid profile by HPLC, the secretory contents of glandular trichome were acquired using a glass microcapillary under a dissecting microscope. Due to the highly integrated nature of the secretory cavity, its contents rapidly entered the glass microcapillary the moment the tip penetrated the secretory cavity.

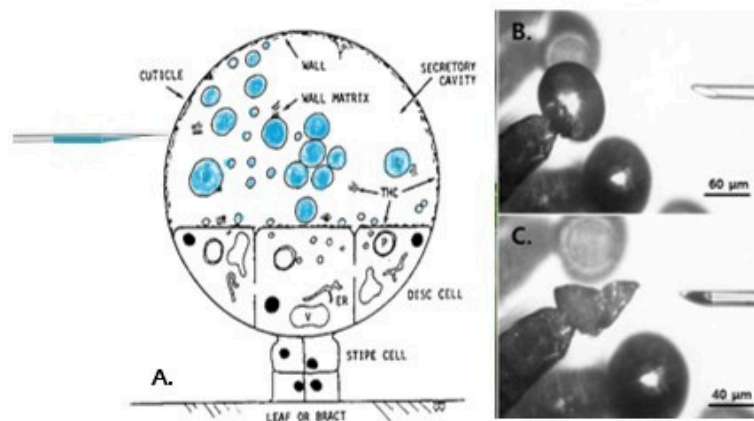
(A) Diagram of mature secretory gland. Numerous secretory vesicles (blue) are present in secretory cavity.

(B) An intact glandular head of glandular trichome and an approaching glass microcapillary.

(C) Collapsed glandular head and collected secretory cavity contents in the tip of a glass microcapillary.

Image courtesy of Dr. Eun-Soo Kim (ICR). Kim et al., Sci. Rep. (2024):16411

Image courtesy of Dr. Eun-Soo Kim (Visiting Scientist-ICR)



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