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# Cannabis Genetics & Bioethics Conference

Developing policy through science & understanding of the genetic & ethical landscape of cannabis in Humboldt.

In partnership with



[hcga.co/genetics-bioethics-conference](https://hcga.co/genetics-bioethics-conference)

April 20-24

Zoom

4.20

## 11 A.M. Micro-farming: Food, Income, Medicine & Compost Crops



Living off the land. As a global culture, local food and crop production are at its peak importance. Humboldt County offers thousands of established agricultural businesses. During this track, farmers will learn a micro approach to diversifying their crops and create a sustainable farm for farm workers and their families.

Presented by Chris Verni, CEO & Founder of Northwest Cultivation, moderated by Daniel Stein of Briceland Forest Farm.

## 4 P.M. Conference kick-off



Join fellow connoisseurs, listen to live music and our keynote speaker. Send out healing energy to those impacted by Covid-19, and pray for a speedy global recovery.

4.21

## 11 A.M. Viruses, Viroids & Pathology



A deep dive into plant pathology. From bacteria, fungal pathogens, viruses, and viroids. What is the difference, and why should a cannabis farmer be informed? During this track, attendees will learn how to test for these different pathogens, the importance of quarantine of new plants, and the benefits of protecting your crop.

Presented by Anna-Liisa Fabritius, Ph.D of AL&L Crop Solutions, moderated by Joanna Berg of Dirty Business Soil.



4.22

## 11 A.M. Tissue Culture and Meristematic Restoration in Cannabis



The apical meristem creates the cure. With each emerging pest or pathogen, farmers are presented with new challenges. Go behind the scenes to learn how to restore old cannabis genetics to their original vigor. During this track, attendees will learn how tissue culture can be utilized to cure Hops Latent Viroid, also known in cannabis as “duds-syndrome.”

Presented by Jeremy Warren Ph.D of Dark Heart Industries, moderated by Daniel Hendricks of Hendrx.

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4.23

## 11 A.M. A Universal Genetic Switch to improve Yield & Stress Tolerance in Cannabis



Genetically Modified Organisms (GMO) and Gene Editing (GE). What is the difference between these methods, and why are they utilized across many large scale agricultural crops? In this track, farmers will learn about new technologies applicable in cannabis, and what the outcome may have on their plants.

Presented by Venki Pegadaraju, Ph.D of Agribody, moderated by Eleanor Kuntz of Leafworks DNA.

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# Join HCGA



HCGA is the trade association advancing the interests of the legal and responsible cannabis businesses in Humboldt County. Let's work together to preserve, protect and enhance Humboldt County's world-renowned cannabis industry through advocacy, public relations and education.

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4.24

11 A.M. Genetic Storage for Common Access



Cannabis varieties are now considered as Intellectual Property (IP). What kinds of tools are available for breeders and organizations within or outside the licensed cannabis market to protect and/or make their IP available? During this track, farmers will learn how some cannabis breeders and farms are sharing their IP to facilitate small farmers and breeders to make the most of their opportunities.

Presented by Dale Hunt, Ph.D of Planet Law, Breeder's Best & the Ethical Data Alliance, moderated by Angela Bacca.

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1 P.M. Cannabis Breeder's Rights & Bioethics

The Cannabis Breeder's Rights and Bioethics panel is the headline of the conference. During this hour, attendees will hear from the influencers in the Humboldt cannabis breeders environment and debate the practices and applications available to cannabis breeders and small farmers. Across the globe, pharmaceutical and agricultural powerhouses are rushing to the breeder to farmers to utilize their IP. Learn from the experts how to prepare yourself for the world of cannabis breeding and intellectual property.

A panel presentation with Nathaniel Pennington, Humboldt Seed Company; Jerry Whiting LeBlanc CNE; Jesse Dodd, Biovortex; Sunshine Johnson, Sunboldt Grown; Eleanor Kuntz, Leafworks DNA. Moderated by Colleen Buyers, Breeder's Best.



All events are accessible online for FREE via Zoom. Learn more at

[hcgga.co/genetics-bioethics-conference](https://hcgga.co/genetics-bioethics-conference)

