DEPARTMENT OF PLANT SCIENCE AND LANDSCAPE ARCHITECTURE
The Role of Plants and Designed-Landscapes in Human Health
Spring 2019 Special Seminars

Medical Cannabis:
From Pot to Molecules and Drug Development

Date: Monday 2/25
Location: Doris & Simon Konover Auditorium
Time: 10:00 am

Presenter:
Hinanit Koltai, Ph.D., Senior Research Scientist
Institute of Plant Science ARO
Volcani Center, Israel

Co-sponsored by:
UConn Plant Science & Landscape Architecture
Connecticut Cannabis Research and Innovation Center (CT-CAN)

Healthy Environment, Healthy People:
Natural Experiments in Active Living

Date: Wednesday 3/13
Location: McHugh Hall 101
Time: 2:20 pm

Presenter:
Chanam Lee, Ph.D., M.L.A., Professor
Dept. Landscape Architecture & Urban Planning,
Center for Health Systems & Design, Texas A&M University

Sponsored by:
UConn Plant Science & Landscape Architecture

The Role of Plants and Designed-Landscapes in Human Health
Spring 2019 Special Seminars

Medical Cannabis: From Pot to Molecules and Drug Development

Date: Monday 2/25
Location: Doris & Simon Konover Auditorium at the Thomas J. Dodd Research Center
Time: 10:00 am – 11:30pm
Join us for appetizers after the seminar in the Dodd public lounge.

Presenter:
Hinanit Koltai, Ph.D.
Senior Research Scientist
Institute of Plant Science ARO
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Abstract:
Marijuana, *Cannabis sativa*, is one of the most effective medicinal plants in use for millennia by various civilizations, finding its way in and out of official pharmacopoeias. In Israel, C. *sativa* is undergoing a process of medicalization, whereby the development of high standard cannabis-based products for specific medical indications is of high priority. C. *sativa* contains more than 600 different phytochemicals, present in different ratios and compositions in multiple diverse strains grown around the world. Yet, the specific beneficial compounds for medical use remain elusive. Our research is focused on identification of optimal compositions of cannabis-derived compounds to treat different medical indications. We found that both cannabinoids and terpenes are needed for optimal anti-inflammatory and cytotoxic activities related to several medical indications, including inflammatory bowel diseases, colon cancer and cutaneous T cell lymphoma. We have also characterized the entourage effect in cannabis based on synergy between the molecules, and identified some of the genetic pathways affected by the synergistic combinations in human cell lines. Our research is paving the way towards development of new, medical-grade, C. *sativa* products by the industry, and may benefit cannabis medical use.

Information for Visitors:
Address: Thomas J. Dodd Research Center
405 Babbidge Road, Storrs, CT 06269-1205

Storrs Visiting Parking information: https://park.uconn.edu/storrs-guest-parking/