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10-23-2020

### D02. NCNPR Activities at Coy Waller Complex

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### **Recommended Citation**

ElSohly, Mahmoud A.; Chandra, Suman; Radwan, Mohamed M.; Lata, Hemant; Wanas, Amira; and Majumdar, Chandrani G., "D02. NCNPR Activities at Coy Waller Complex" (2020). *Annual Poster Session 2020*. 25.

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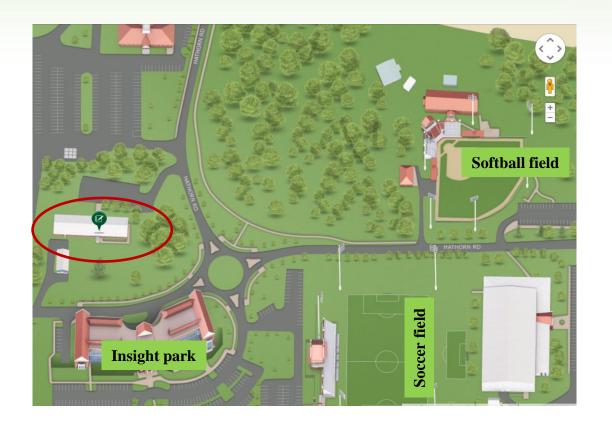
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# **COY WALLER COMPLEX**



Coy Waller Laboratory Complex is located on the southwestern corner of the Ole Miss campus. It consists of offices and research laboratories, and the marijuana growing facilities. It is part of the NCNPR, School of Pharmacy and RIPS. Coy Waller Laboratory includes:

1-Indoor growing facility.

2-Outdoor growing facility.

3-Laboratories (7 laboratories).

4-Vaults (2 vaults to keep the dried marijuana plant, extracts and cannabinoids with law temperature storage capability (-20 °C). 5-Offices (9)

It is the home of the marijuana project which has been at Ole Miss since 1968.

### Marijana Project Aims

- Grow, harvest & process cannabis
- Provide cannabis products such as extracts and Individual cannabinoids for NIDA`S Drug Supply Program.
- Manufacture & distribute cannabis cigarettes for research.
- Production of cannabinoids
- Cannabis phytochemistry
- Confiscated cannabis analysis

## Outdoor growing

We have the ability to cultivate and produce many varieties of *C. sativa* from seeds or cuttings (1.5 acres to 12 acres).















# NCNPR Activities at Coy Waller Complex

### Indoor growing

### **Processing of plant** material

### **Gamma Irradiation**

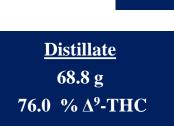
**Cannabis Extraction &** Distillation







1 kg 10.0% Δ<sup>9</sup>-TH



<u>Extract</u> 102.6 g

57.8 % Δ<sup>9</sup>-TH







**Project Co-Director Production Manager** 



**Dr. Hemant Lata** 

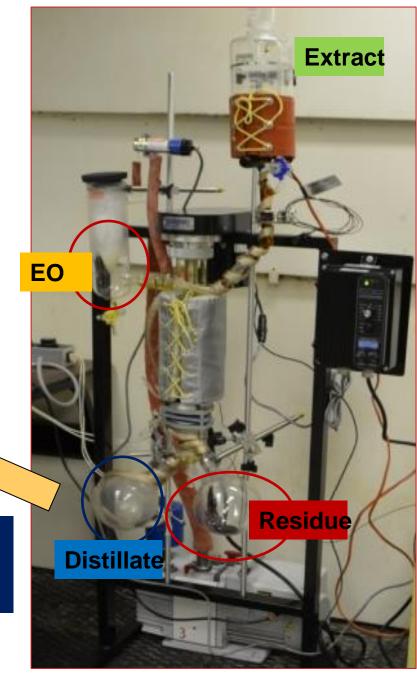
Sr. Research Scientist





Mrs. Magen Sealy **Project Coordinator**  Ms. Lauren Cook Administrative **Coordinator 1** 





**Thin Film Distillation** 

Lab. Supervisor Sr. R&D Chemist



Associate R&D Chemist

NOILL Mohamed M. Radwa Project Co-Director

QC – Manager

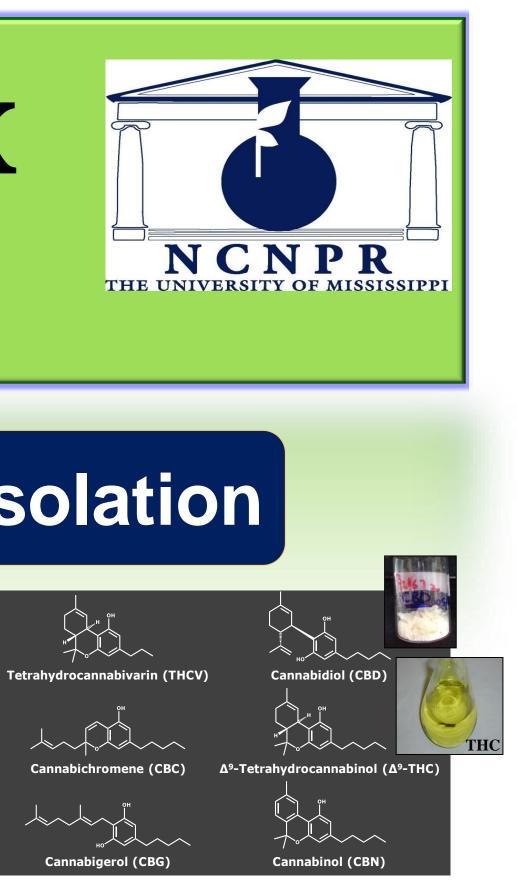
Dr. Amira A. Wanas **Research Scientist** (Nat. Prod. Chemist



**Mr. Harold Sneed** Field Operations Coordinator

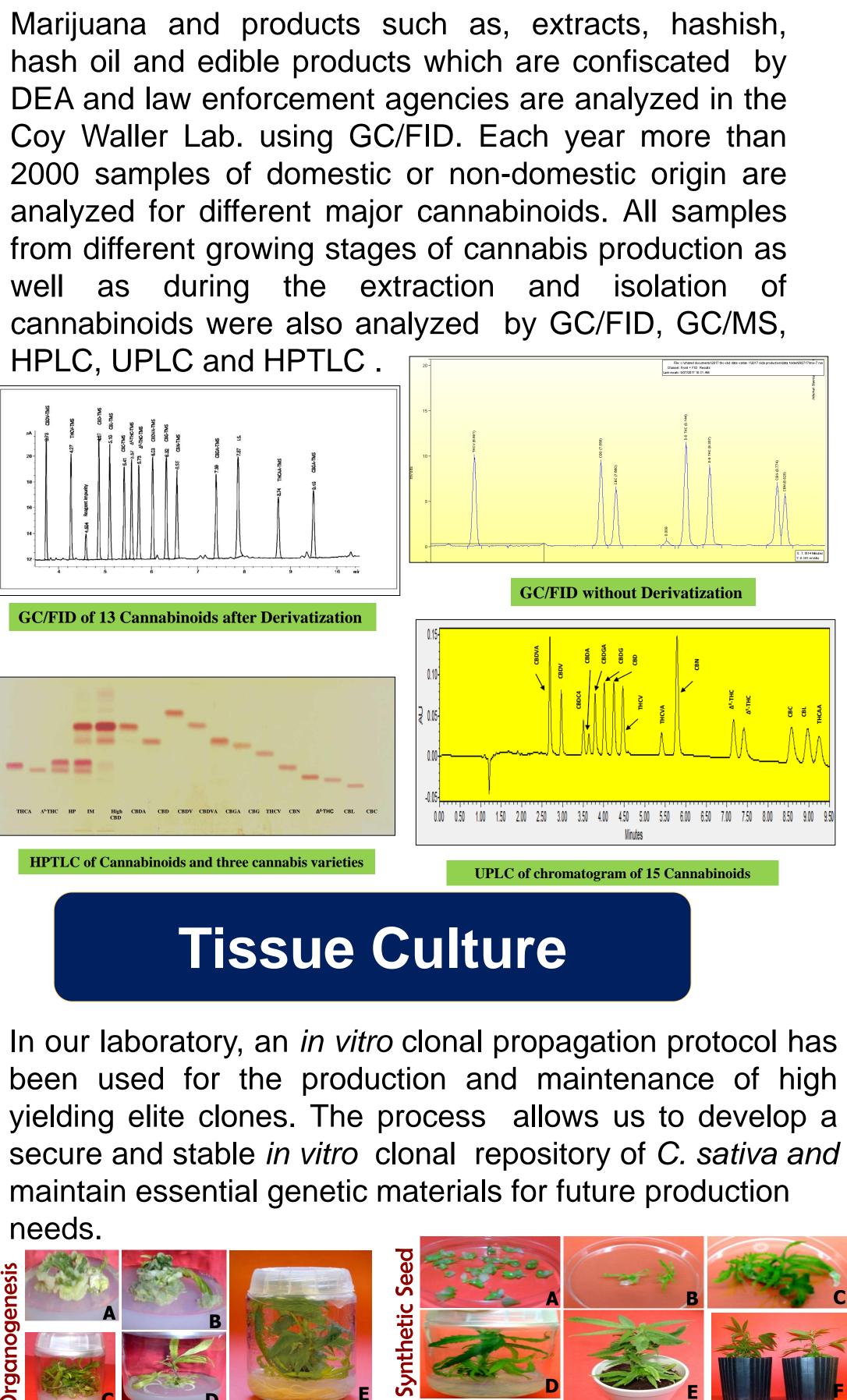
### **Cannabinoids** isolation

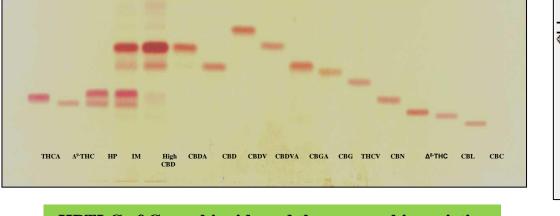
Cannabinoids with purity than **95%** were more prepared from cannabis distillate by using many chromatographic techniques.

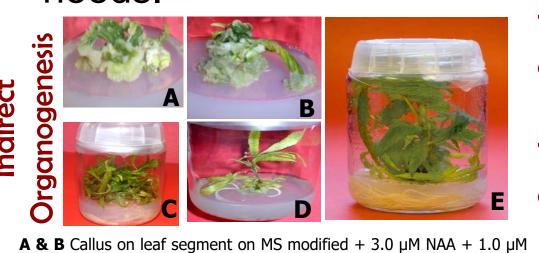


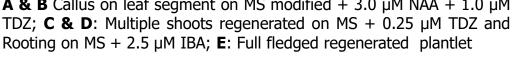
CBD produced with purity > **99%** The amount produced in 2020: In 2020 we produced 190 g THC and 500 g of CBD and 51 kg extract

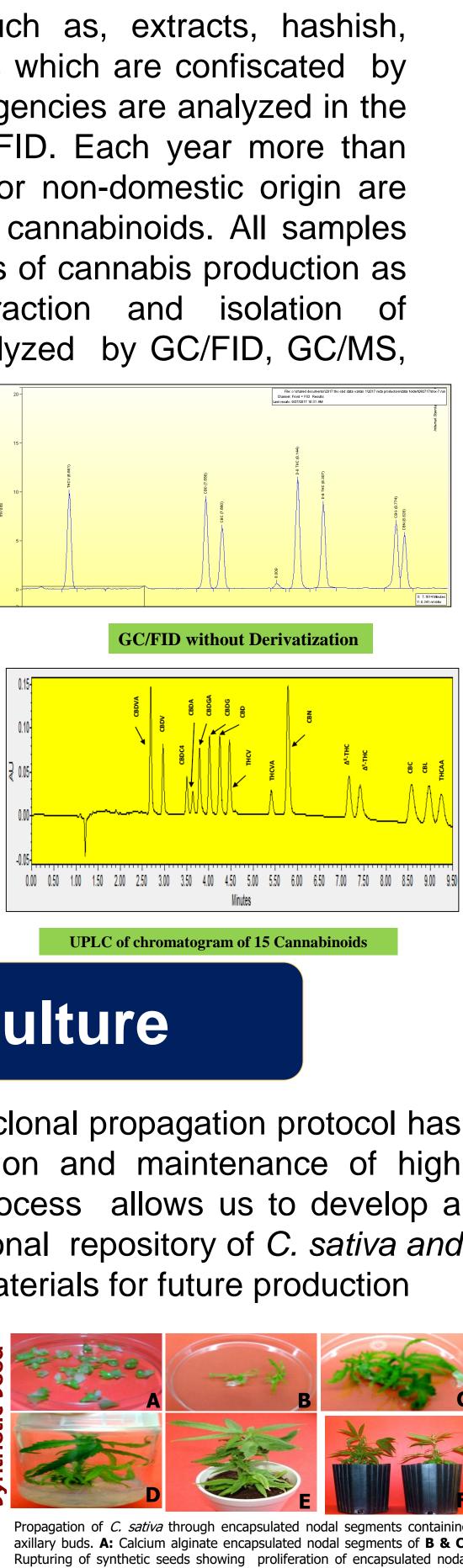
### Testing analytical laboratory for Cannabis samples











segments, **D**: Conversion- showing sprouting and rooting **E**: Regenerate plant established in fertilome, **F**: Fully grown hardened plant on 1:1 potting mix- fertilome with coco natural growth medium

### ACKNOWLEDGMENTS

The project is supported by National Institute on Drug Abuse (NIDA), contract # N01DA-15-7793.