

Scientific Communication

Attend professional scientific meetings where you can meet and present your research to peers and professional scientists.



Endophytic Fungi

Develop your own sampling protocols. Decide which campus plant species may host a fungus that produces an unknown antimicrobial compound.



Collaborate with Peers

Work with fellow students in weekly meetings to meet mutual research goals.



Interdisciplinary

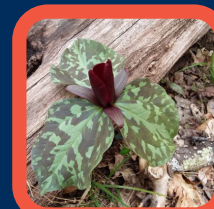
Learn both microbiological and organic chemistry methods to extract bioactive secondary metabolites from isolated fungi.



Undergraduate Research at Davidson-Davie Community College

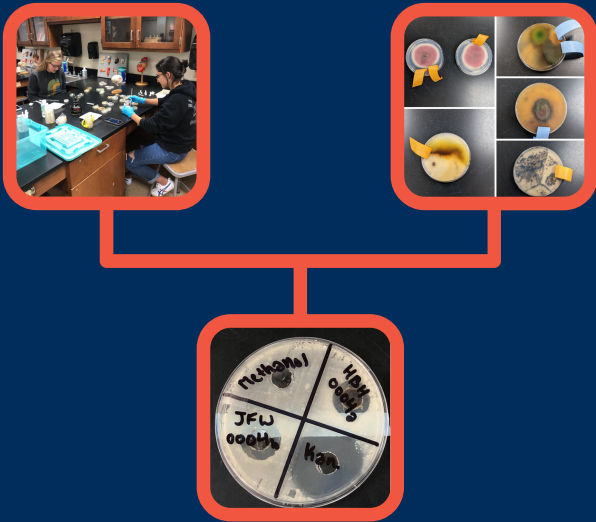


Real Field & Lab Experiences



Details

The central, organizing theme of projects conceived and developed by DDCC Undergraduate Research Scholars working with Joe Felts is the isolation of endophytic fungi for the purpose of analyzing their organic extracts for bio-active secondary metabolites with antimicrobial, insecticidal, and antimitotic properties. With the rise in antibiotic resistance in bacteria, resistance in pest species, agricultural diseases, and cancer, the need for newer, effective compounds is increasing. Natural products produced by endophytic fungi are a potential source for these types of compounds.



Contact Information

Students interested in the Undergraduate Research Scholars program and conducting research into endophytic fungi should contact biology faculty member Joe Felts.



@DDCC_UR

Email: joe_felts@davidsondavie.edu

Website:

<https://eco-bio-felts.weebly.com/undergraduate-research.html>



Davidson-Davie
COMMUNITY COLLEGE

Undergraduate Research Scholars

Students who complete each of the following will be eligible to receive the Undergraduate Research Scholar Distinction Honor, which will be documented on their transcript.

1. **Faculty Supervisor:** A full-time DDCC faculty member must agree to oversee any research project. Students must meet criteria set forth by supervising faculty member agreeing to supervise project.
2. **Research Activities:** Students will participate in a research intensive project. Students will participate in a minimum of 30 hours per 16-week semester.
3. **Research Experience Presentation/Communication.** Students must complete one of the two options below:
4. Students will present the results of research projects. This requirement can be fulfilled by presentation of results at professional scientific society meetings or symposia.
5. Students will submit results of research project to a peer-reviewed journal for publication.

