

## **CAES Seminar Series**

## "Fungi, fescue, and a tripartite microbial mutualism"

## Dr. Elizabeth Roberts

Biology Department Southern Connecticut State University

Wednesday, December 9, 2015 12:00 noon to 1:00 p.m.

Food and coffee will be available at 11:45 a.m.

Jones Auditorium
The Connecticut Agricultural Experiment Station
123 Huntington Street, New Haven, CT

Epichloë fungal endophytes of tall fescue grass produce loline alkaloid compounds that ward off insect herbivores, but can also serve as a significant carbon source for epiphytic bacteria. Through community composition analysis and Illumina sequencing, it was discovered that the presence of this fungus plays a significant role in determining the microbiome of the plant, allowing loline-catabolizing bacterial strains to dominate the tall fescue phyllosphere and rhizosphere.

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