

# USF NEXUS INITIATIVE 2018 AWARD RECIPIENT

## **Cecilia Nunes**

*Identifying Potential Abiotic Stress-Associated Biomarkers in Strawberry Fruit Using Advanced Mass Spectrometry-Based Proteomics and Classical Biochemical Approaches*

The health benefits of strawberries have been the focus of many studies due to the fruit's high level of bioactive compounds. While many have used classical biochemical approaches to investigate the impact of abiotic stresses on strawberry quality, very few data are available at the proteomic level. Further proteomic research is needed to better understand the biochemical differences between strawberry genotypes, their response to abiotic stresses, and to associate proteome changes with quality traits, specifically with levels of polyphenols. We are working to identify potential abiotic stress-associated biomarkers using advanced mass spectrometry-based proteomics and classical biochemical approaches.

### ***Partnerships:***

**Stanley N. Stevens Jr.**, Ph.D., Associate Professor  
Albany College of Pharmacy and Health Sciences (Colchester, Vermont)



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