



DR. SHERIF SHERIF

“A Dive into the Molecular Intricacies of Bloom Timing and Frost Resilience in Fruit Trees”.

As climatic aberrations intensify, apprehending the molecular mechanisms governing dormancy and bloom in deciduous fruit trees becomes imperative to mitigate the challenges posed by late-spring frost. Our intricate omics approaches and assays have explored natural and chemically induced bloom variations in various cultivars, unveiling potential biochemical pathways and gene networks manipulable through innovative breeding and biotechnological interventions, aiming to defer blooming and preclude detrimental impacts of late-spring freezes.

Fall 2023 PSLA

LECTURE

SERIES

November 20, 2023

**PLS Building RM
2107/2109**

Time:

12PM

[UMD Zoom](#)

**Graduate student
lunch w/ speaker**

1PM

PLS 2107/2109

Dr. Sherif, Associate Professor at Virginia Tech's School of Plant and Environmental Sciences, is a distinguished scientist specializing in tree fruit physiology and molecular biology, with a strong emphasis on sustainable and innovative solutions for the industry's inherent challenges. His comprehensive research approach spans from exploring intricate molecular interactions and bud dormancy mechanisms in deciduous trees to implementing groundbreaking techniques such as spray-induced gene silencing for disease management.



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