



Cancer Prevention & Control Program

COLLOQUIUM SERIES

“The Not So Sweet Taste of Cancer: Diagnosis, Staging and Prognosis of Cancer by Monitoring Associated Changes in Glycosylation”



FRIDAY

October
21

10 a.m. – 11:30 a.m.

John Lavigne, M.Ed., Ph.D

Associate Professor,

Department of Chemistry and Biochemistry

University of South Carolina

[Faculty Profile](#)

Discovery 1 | Rm. 140
915 Greene Street

Dr. John Lavigne is an Associate Professor in the Department of Chemistry and Biochemistry at the University of South Carolina. After earning his Ph.D. from the University of Texas at Austin he continued work he started as a graduate student at a start-up company. Labnetics was a point-of-care diagnostics company that is now part of Siemens Healthcare. Dr. Lavigne began his career as a tenure track faculty member at UofSC in 2002. His area of expertise is bio-organic chemistry with his research broadly centering on molecular recognition (studying how molecules interact). Most recently, his laboratory has been interested in studying changes in the sugars displayed and secreted by cancer cells (i.e., aberrant glycosylation) towards developing novel cancer diagnostics. To do this, an array of cross-reactive sensors is used, mimicking the mammalian sense of taste, to create a fingerprint pattern of the sugars present, thereby indicating the presence/absence of the disease as well as providing information about the disease stage and aggressiveness.



UNIVERSITY OF
SOUTH CAROLINA
Arnold School of Public Health