



Genome Sciences Seminar

Wednesday, 2.27.19 | 3:30 | Foege Auditorium



Dr. Benjamin Garcia

John McCrea Dickson M.D. Presidential Professor
University of Pennsylvania

“Quantitative proteomics for understanding epigenetic mechanisms”

The Garcia Lab utilizes high-resolution mass spectrometry to explore cellular signaling, epigenetic mechanisms and chromatin regulation. We are especially interested in understanding how protein and nucleic acid modifications mediate their canonical functions and regulate nuclear processes. Mass spectrometry has become an unparalleled tool in the analysis of these biological molecules and allows us to obtain quantitative information about modifications as well as their co-occurrence. These modifications are critical for nuclear stability and transcription; and dysregulation of these pathways underlie several human diseases such as cancer. Our work aims to reveal the roles of these modifications in the cell cycle, proliferation, differentiation, signaling pathways and metabolism, to consequently help elucidate the mechanisms of various diseases.

<http://hosting.med.upenn.edu/garcialab/>

Refreshments served outside the Auditorium at 3:20pm

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Seminar website at <http://www.gs.washington.edu/news/seminars.htm>

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