



# Genome Sciences Seminar

Wednesday, 3.31.21 | 3:30 | held remotely

<https://depts.washington.edu/gstrestrc/remote.htm>

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## Dr. Peter Nemes

Associate Professor

Department of Chemistry & Biochemistry

University of Maryland

## “Single-cell Mass Spectrometry of Proteins and Metabolites for Profiling Cell Differentiation”

Our research interests lie at the intersection of analytical chemistry, biology, and the applied health sciences. We develop next-generation technologies based on ultra-performance liquid chromatography, capillary electrophoresis, electrospray ionization, and high-resolution mass spectrometry to enable the detection and quantification of important proteins, peptides, and metabolites in ultra-high sensitivity. Next, we use these advanced bioanalytical tools to ask how differential expression of the genome coordinates cell molecular processes critical to the normal development of cell heterogeneity, body patterning, and formation of the nervous system. Our studies use powerful models in cell and developmental biology and neuroscience, specifically the frog (*Xenopus laevis*) and mouse.

<http://blog.umd.edu/nemes/>

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

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