



Genome Sciences Seminar

Wednesday, 4.28.21 | 3:30 | held remotely

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



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“Engineering the repetitive 3D genome in human disease”

The Cremins lab investigates the epigenetic mechanisms regulating development and function of the mammalian central nervous system. We map and analyze neuronal epigenomes in three-dimensions using quantitative, genome-wide technologies. We also perturb epigenomes by employing state-of-the-art genetic engineering strategies (e.g. CRISPR/Cas9, optoepigenetics). To test our hypotheses, we primarily use embryonic and induced pluripotent stem cell models of neuronal differentiation and disease. Our long-term goal is to discover how genome architecture controls genome function, applying this to study fundamental mechanisms controlling neuronal phenotype and, by extension, the onset and progression of neurodegenerative and neurodevelopmental disease states.

<http://creminslab.com/>

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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