



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA

Department of Cellular and Physiological Sciences



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****CPS SEMINAR TIME****

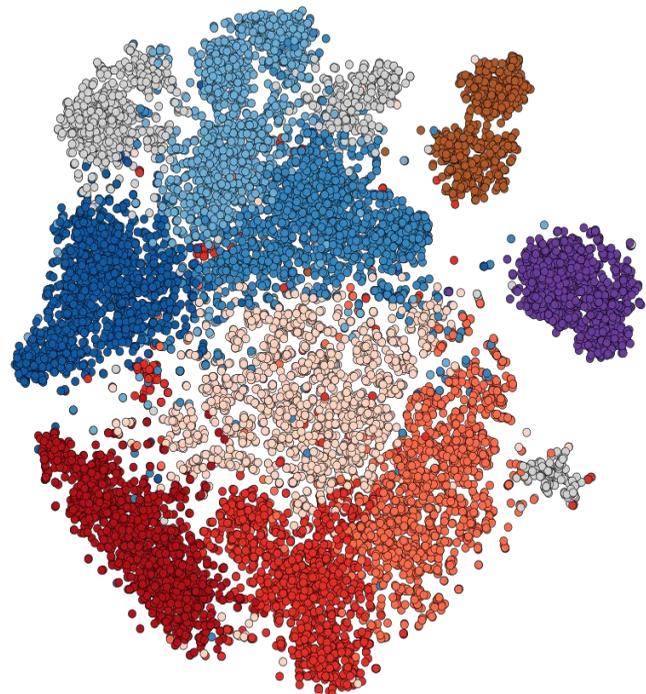
12:30 PM Thursday, February 28, 2019

Location: LSC3

Hosted by Drs. Rideout & Tanentzapf

"Genomics of the single chromosome"

Chromosomes come in pairs in diploid organisms and deviations from this rule are deleterious. Aneuploidy results in cumulative subtle changes in gene expression which collapse the gene expression network when more than a small fraction of the genome is present as a single copy. The only regular exceptions to this rule are the sex chromosomes, which in organisms like *Drosophila*, with highly diverged sex chromosomes, results in an aneuploid state used to determine sex. This creates an unbalanced genome which is often compensated at the transcriptional level. The special transmission of X chromosomes (2/3rds of which are in females), leads to the exodus of genes with male-biased functions from the X and possibly to the inactivation of the only X chromosome during spermatocyte development as revealed by single cell genomics.



Join us for coffee and cookies at Noon in LSC 1416!!!

For more information please contact Dr.Rideout<elizabeth.rideout@ubc.ca>, Dr.Tanentzapf<janel.kopp@ubc.ca>