Pathology Presents

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"X Chromosome 3D Structure and Role in Sex Differences in Disease"

Sex differences in health and disease are mediated by hormones, but also by a fundamental genetic difference between the sexes, that is, males are XY and females are XX. This difference led to the evolution of regulatory mechanisms of the X chromosome, including X inactivation. The Disteche lab works on understanding the role of long non-coding RNAs in the 3D chromatin structure of the inactive X chromosome inside the nucleus. The lab is also investigating genes that have higher expression in females versus males due to escape from X inactivation, which plays a role in sex-specific susceptibility to disease and in sex chromosome aneuploidy.

FEBRUARY 14TH, 2018 ; 4:30PM
T-739

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