

Paper Pick
August 18, 2020

by Rhonda Voskuhl, MD (OSSD President)

“The X-linked histone demethylase *Kdm6a* in CD4⁺ T lymphocytes modulates autoimmunity”

Journal of Clinical Investigation, 2019. *J Clin Invest.* 2019;[129\(9\)](#):3852-3863.

<https://doi.org/10.1172/JCI126250>

Autoimmune diseases are more prevalent in females, and sex differences in the immune system have been shown, yet the mechanistic contribution of differences in sex chromosomes remains unclear. Here, an X-linked histone demethylase gene (*Kdm6a*) that impacts genome-wide methylation and escapes X-inactivation is shown to alter the transcriptome of CD4⁺ T lymphocytes and drive inflammation. For further reading, this paper was chosen by the Editors for Commentary in the same issue.