

# SCIENCE AT THE EDGE

2018 SEMINAR SERIES

Quantitative Biology Graduate Program | Gene Expression in Development and Disease

**Ting Wang**  
Genetics  
Washington University

## “Transposable Elements and Epigenome Evolution”

Advances in next-generation sequencing platforms have reshaped the landscape of genomic and epigenomic research towards the understanding of roles of human transposable elements. It is now possible to map the epigenetic landscape of transposable element (TE) across many tissue and cell types as well as in diseases. It is also possible now to directly manipulate TEs genetically and epigenetically. In the presentation I will discuss tools developed for this purpose and present some results from investigating regulatory roles of transposable elements in normal and cancer cells, using public genomic and epigenomic resources.

**FRIDAY, NOVEMBER 9, 2018**  
**11:30 / ROOM 1400 BPS**

*Refreshments at 11:15*