

SEMINAR

Indiana CTSI Access Technology Program presents:

“An introduction to home-brew library prep methods for Illumina sequencing and critical factors to ensure success: ChIP-Seq, ATAC-Seq, Hi-C, and CRISPR screening”

Speaker: Lauren Robinson, Sequencing Specialist
Illumina, Inc.

Hosted by:

Indiana University Center for Genomics & Bioinformatics, Matthew Hahn, PhD, Director
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Notre Dame Genomics & Bioinformatics Core Facility, Michael Pfender, PhD, Director
Purdue University Bindley Core for Genomics, Phillip SanMiguel, PhD, Director

Friday, May 14
12:00 pm – 1:00 pm

Please register to receive the ZOOM meeting link:
https://redcap.link/CTSI_Technology_Seminar

Description: In this webinar we will discuss popular applications that utilize home-brew library preps with Illumina Sequencing as a downstream readout. This will include an overview of epigenetic methods designed to look at regions of open chromatin (ATAC-Seq), binding sites of DNA-associated proteins (ChIP-Seq/Cut and Run), and detection of long-range DNA interactions (Hi-C). Additionally, we will look at how Illumina Sequencing can be used as an effective strategy in genome wide CRISPR screens for quantification of sgRNAs as well as methods that allow the detection of transcriptional changes observed in the enriched or depletion knockout populations.

Disclosure Summary

The Access Technology Program provides investigators access and guidance in using novel technologies and Core Services. Services and views presented belong solely to the vendor; they do not necessarily reflect the views of the Indiana CTSI, Indiana University, Purdue University or University of Notre Dame.