Applications of Single Molecule, Real-Time (SMRT®) Sequencing

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When: Thursday, January 29
4:00 pm to 5:00 pm
Where: Seebohm Conference Room (283 EMRB)

SMRT Sequencing is a DNA sequencing technology characterized by long read lengths and high consensus accuracy, regardless of the sequence complexity or GC content of the DNA sample. These characteristics can be harnessed to gain more comprehensive views of genomes, transcriptomes, and epigenomes. Dr. Korlach will be discussing: 1) advantages of long reads in de novo genome assembly, 2) resolving the various forms of structural genomic variation, long-range haplotype phasing, 3) the ability to identify modified DNA bases for epigenetic studies, 4) the ability to perform full-length transcript sequencing to identify isoforms and splice variants, 5) full-length 16S rRNA sequencing and long-read functional metagenomics.

The NGS Interest Group Meeting is open to everyone. Investigators that are currently performing or are planning to start studies using the Next Gen Sequencing platforms are encouraged to attend. NGS Interest Group meetings will occur monthly, every 3rd Wednesday at 2:00 pm in the Seebohm Conference Room.

Individuals with disabilities are encouraged to attend all University of Iowa sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact the IIHG in advance at (319) 335-3578.

Please contact Kevin Knudtson, PhD (kevin-knudtson@uiowa.edu) if you have questions about the NGS Interest Group.