

**Friday, March 18, 2016**

# **Flow Core Luncheon Seminar**

**Jordan Hall Rm 1-17**

**Lunch 12:45pm Seminar 1:00pm**

**Molecular Indexing for accurate gene expression quantitation from hundreds of samples and up to several thousand individual cells simultaneously.**

**John Harrington, Field Application Scientist  
BD Genomics**

The Precise Assay from BD Genomics (developed by Cellular Research, Inc.) is an all-in-one amplification and library prep optimized for sequencing on Illumina sequencers. The technology uses Molecular Indexing prior to reverse transcription that preserves original mRNA transcript counts, provides greater sensitivity, and streamlines downstream processing. Precise assays allow direct counting of each individual mRNA molecule that was present in the sample prior to PCR amplification, thus overcoming inherent bias. Precise can detect subtle changes at <0.1% expression levels.

Precise Assays detect and quantify individual copies by digital read-out of labeled molecules & detects lowly expressed targets with as little as 10 pg of starting material including difficult samples- FFPE and Exosome and/or single cells/cell extracts & total RNA and no additional purification steps.

**Step 1 – Add Samples**



**Step 2 – RT Rx**



**Step 3 – Pool Samples**



**Step 4 – Multiplex PCR Amplification**



**Step 5 – PCR Amplification**



**Step 6 RNA Sequencing**

