Dear Colleagues,

1. K-State Integrated Genomics Facility (IGF) and the Department of Plant Pathology organize the Gene Expression Analysis (RNA-seq) workshop. The workshop is a combination of lectures and hands-on experiments on RNA-seq library preparation, Illumina data acquisition, RNA-seq data processing and analysis.

IGF Workshops:

No Textbooks!!!
No Grades!!!
Escape from work!!!

When: June 19th – 23rd, 2017; from 9am to 5pm
Where: Department of Plant Pathology, 4031 Throckmorton PSC

The workshop activities include:

Lectures
- Gene Expression and Its Regulation
- Advanced Techniques in Gene Expression Analysis
- RNA-seq Based Gene Expression Data Analysis
- Advances in Complete RNA Seq workflows from Library Prep to Analysis with the NextSeq 500 – invited Illumina seminar – open for everyone!
- Introduction to Unix command line
- RNA-seq Experiment Design and Results Interpretation

Laboratory
- RNA quality assessment with 2100 Agilent Bioanalyzer
- RNA-seq library preparation using Tru-Seq Stranded mRNA Illumina reagents
- Illumina Sequencing run set up

Computer Laboratory
- Does my sequencing run look good? Introduction to Illumina Base Space
- RNA-Seq Data analysis using GALAXY
- RNA-Seq Data analysis using R

There is no registration fee, but the registration is limited to 20 attendees, and is accepted on first-come, first-serve basis. To register please contact Alina Akhunova at akhunova@ksu.edu.

This workshop is available for one graduate credit hour, PLPTH 780 (section A, class number 10513) or PLPTH 921 (section A, class number 10623), Gene Expression Analysis workshop.
For more information and latest workshop updates, please visit:
http://www.k-state.edu/igenomics/workshops/
http://courses.k-state.edu/summer2017/PLPTH/

2.

The NextSeq500 services are coming soon!

We are happy to let you know that the NextSeq500, a mid-throughput Illumina Sequencing System is now available at the IGF. One NextSeq run results in ~400 mln read pairs (2 lanes of the HiSeq2500). For more information please visit:

Best,
Alina

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