Dear Colleagues,

K-State Integrated Genomics Facility is offering Gene Expression Analysis (RNA-seq) and Real-Time PCR workshops this summer. Both classes are 1 credit. If you do not need credit, but would like to attend one or both workshops (no registration fee) please check space availability by email akhunova@ksu.edu. Enrollment is limited to 20 participants.

1. Two invited seminars are open for everyone:
   1) Please come and learn about the “Recent advances in DNA sequencing” from Illumina’s team of experts, Todd Deppe and Marg Mueller. When: June 4th, 2015; from 1pm to ~3pm. Where: 4031 Throckmorton Hall.
   2) Please attend to “Discover the power of Droplet Digital™ PCR”, from BioRad specialists. When: June 11th, 2015, from 12 to 1pm. Where: 4031 Throckmorton Hall.

2. **June 1st-5th, 2015.** Gene Expression Analysis (RNA-seq), PLPTH 780 (course# 10551) or PLPTH 921-c (course # 10969): The workshop is comprised of lectures, laboratory exercises, and computer-based data analyses. The course will train participants in RNA-seq library preparation using Tru-Seq Illumina reagents, MiSeq (Illumina) data acquisition, RNA-seq data processing and analysis.

3. **June 10th-11th, 2015.** Real-Time PCR, PLPTH 785 (course # 10552) or PLPTH 921-b (course # 10765): The workshop is a combination of lectures and hands-on experiments on Real-Time PCR, primer/probe design, experimentation, and data analysis. Participants will perform SYBR Green I based gene expression analysis, TaqMan probe based diagnostic analysis, and KASP assay based allelic discrimination analysis on provided samples using the Bio-Rad CFX 96 and The Cepheid Smart Cycler II Real-Time PCR systems. This will simulate the complete process of Real-Time PCR reactions and analysis of subsequent data. Real-Time PCR for Regulatory Plant Pathogen Diagnostics and TaqMan probe based diagnostic analysis will be taught by Dr. Craig Webb (USDA, APHIS, PPQ).

Best,
Alina

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