Georgia Genomics Facility Newsletter

December 2013

*A sequencing and genotyping core laboratory at the University of Georgia*

New Services at GGF

- **TruSeq Stranded Total RNA with Ribo-Zero Plant sample preparation:** As described by the manufacturer, the "TruSeq Stranded Total RNA with Ribo-Zero Plant kit enables the specific removal of cytoplasmic, mitochondrial and chloroplast ribosomal RNA from leaf, seed, and root tissue using biotinylated probes that selectively bind rRNA species. The probe:rRNA hybrid is then captured by magnetic beads and removed, leaving the desired rRNA-depleted RNA in solution. The library captures coding RNA as well as multiple forms of non-coding RNA. The sample preparation protocol is optimized for 0.1-1 μg of high quality of total RNA as input."

Free DNA or RNA analysis on the Fragment Analyzer at GGF on December 3rd

- Seminar at 9 am in Room 166 (same building as GGF): **Addressing the Workflow and Time Saving Benefits of the Fragment Analyzer™ - A Parallel Capillary Electrophoresis for Nucleic Acid Analysis** by Steve Siembieda, COO of Advanced Analytical.

- Demo from 10 am to 1 pm: Come by the Georgia Genomics Facility with your samples to try the new Fragment Analyzer. Limit of 11 samples per lab. Choose from one of the three specific kits for your free trial:
    - PCR Fragments: genotyping, copy number, fragment sizing
      Sizing range: 35 to 500 bp
      Input concentration range: 0.5 to 50 ng/μl
    - NGS libraries: QC of DNA and RNA libraries
      Sizing range: 50 to 5,000 bp
      Input concentration range: 50 to 5,000 pg/μl
    - RNA: QC of total RNA, mRNA or rRNA-depleted RNA
      Total RNA input concentration range: 50 to 5,000 pg/μl
      mRNA input concentration range: 250 to 5,000 pg/μl
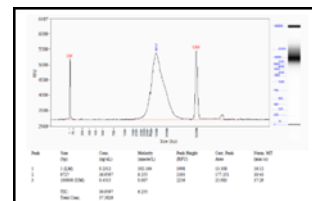
Upcoming Seminar

- **A Genomics Revolution: Harnessing the Power of Single Cells**
  Thursday, December 12th, 2013 from 3:30 pm-4:30 pm, Miller Plant Sciences Building, Room 1501. No registration necessary.