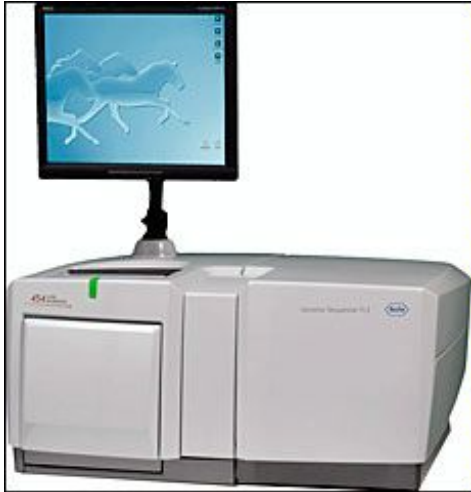


Thursday, Sep. 03, 2009

USU CIB Hosts Free 454 Next Generation Sequencing Seminar Friday, Sept. 11



USU's Center for Integrated BioSystems has purchased a Roche 454 sequencer, which is available to researchers on campus, to private companies and to other institutions and federal agencies.

Utah State University's Center for Integrated BioSystems has purchased a Roche 454 sequencer, which is available to researchers on campus, to private companies, and to other institutions and federal agencies.

Teri Mueller from Roche Applied Science will present a training seminar: *"Overview of the Roche 454 Genome Sequencer FLX Software"* on Friday, Sept. 11, 2009 from 9:30 a.m. to 3 p.m. in the CIB conference room, BTC 103.

This training session will be beneficial for life scientists, including biologists and bioinformaticists, and will introduce users to the data processing options and steps, directory structure and the post-analysis software (de novo Assembler, Reference

Mapper and Amplicon Variant Analyzer) available with the GS FLX system.

The Genome Sequencer (GS) FLX Titanium Systems (a.k.a. "The 454 sequencer"), is an ultra high-throughput instrument for conducting nucleotide sequencing. It potentially can generate one million sequencing readings with an average reading at about 400 nucleotides long within a single operation run.

The 454 sequencer, which cost around \$500,000, will be part of the CIB Core Laboratory facility directed by Kenneth White. Funding to buy the system came from a combination of grants attained by the CIB and the department of Animal, Dairy and Veterinary Sciences at USU.

"Having the 454 sequencer will open many research opportunities that have been unavailable to USU researchers in the past" said CIB Interim Director Kenneth White. "It has already impacted new faculty recruiting; just knowing we have this capability on campus makes a difference in the types of faculty that will locate here."

USU's CIB Core Laboratory facility provides life scientists on campus, and

in other institutions, with services including genomics, proteomics, flow cytometry and bioprocessing. Within these areas services are available in DNA sequencing, protein synthesis, fluorescent activated cell sorting and fermentation and cell culture analysis.

To register for all or part of this informative seminar by calling 797-3504, or email ken.olsen@usu.edu. Lunch will be provided.

Related links:

[Center for Integrated BioSystems](#)

[Roche 454 Sequencing](#)

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