



Department of Genetics

Nanocourse Announcement

Next Generation Sequencing Technologies: Principles and Applications

Tuesday, October 28th, 2014

9:30 am – 1:00 pm

*Harvard Medical School,
Cannon Room, Building C*

Chad Nusbaum

Peter Park

Bob Steen

Traditional capillary sequencing technology using base-specific chain termination by fluorescent di-deoxy nucleotides represents modifications to the original sequencing methodology devised by Sanger and colleagues in the 1970s. Recent years have seen the development of next generation parallel sequencing technologies that are rapidly replacing older methodologies. Sequencing by synthesis enables the simultaneous sequence analysis of millions of DNA templates at the same time, or in parallel. These new approaches allow for DNA sequencing at a markedly faster pace, and often at a much cheaper price, making sequencing projects feasible for an ever-expanding number of researchers. This nanocourse will explore the methodology and principles behind parallel sequencing technology, and how it measures up to traditional sequencing methods. A discussion of the services available at the Department of Genetics Biopolymers core facility, including order placement, data output, and turnaround times, will also be included for researchers interested in utilizing these resources.

All are welcome. No registration is required.

See nanosandothercourses.hms.harvard.edu for a complete nanocourse schedule.