National Human Genome Research Institute
National Institutes of Health

Current Topics in Genome Analysis
Spring 2005

Course Organizers

Andy Baxevanis, Ph.D.
Eric Green, M.D., Ph.D.
Tyra Wolfsberg, Ph.D.

Course Web Site

http://www.genome.gov/COURSE2005

Course Mailing List

An automated mailing list has been set up for this course, and we ask all participants to subscribe to this list. The course organizers will be using this mailing list to remind everyone of upcoming lectures, as well as notify participants of any announcements or changes to the course schedule. Instructions on how to subscribe, including a direct link to the NIH Listserv, can be found on the Course's Web site.

Continuing Medical Education (CME) Credits

The NIH/FAES is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The NIH/FAES designates this educational activity for a maximum of 22.5 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those hours of credit he/she actually spent in the activity.

In order to receive CME credits through NIH/FAES for this course, please download the CME form from the Course Web site and return it to Dr. Baxevanis at the address listed on the form. All CME forms must be submitted no later than April 30, 2005 in order to receive credit for the course.

Full Disclosure of Speaker Financial Interests or Relationships

All speakers presenting lectures in the Current Topics in Genome Analysis series were asked to report any financial interest or relationships with manufacturer(s) of commercial products that may be discussed in these educational presentations. Such interests are identified by the speakers so that participants may have these facts fully-disclosed prior to the presentation, and may form their own judgments about the presentation. None of the speakers in this series have reported any such relationships.

Supplementary Texts

Available at the NIH Library:

Birren, B., Green, E.D., Klapholz, S., Myers, R.M., and Roskams, J., eds. *Genome Analysis: A Laboratory Manual*, volumes 1-4. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 1997-1999.

Brown, T.A. *Genomes 2.* John Wiley and Sons, New York, 2002.

Baxevanis, A.D. and Ouellette, B.F.F., eds. *Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins*, 3rd ed. John Wiley and Sons, New York, 2005.

Baldi, P. and Brunak, S. *Bioinformatics: The Machine Learning Approach*, 2nd ed. MIT Press, Cambridge, MA, 2001.

Available Electronically through the NIH Library Web Site (*http://nihlibrary.nih.gov*, under Online Journals):

Current Protocols in Bioinformatics

Current Protocols in Human Genetics

Please direct any questions regarding the course to Dr. Baxevanis (andy@nhgri.nih.gov).

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Current Topics in Genome Analysis
Spring 2005 Syllabus

All lectures are on Tuesday mornings from 10:00 am to 11:30 am. Lectures are held in the Lipsett Amphitheatre in the Clinical Center (Building 10).

January 11	Techniques for Genome Mapping and Sequencing *Eric Green, NHGRI*
January 18	NCBI Resources: From Sequence to Function *Medha Bhagwat, NCBI*
January 25	Mining Genomic Sequence Data *Tyra Wolfsberg, NHGRI*
February 1	Nucleotide and Protein Sequence Analysis I *Andy Baxevanis, NHGRI*
February 8	Nucleotide and Protein Sequence Analysis II *Andy Baxevanis, NHGRI*
February 15	Protein Structure Analysis and Protein-Protein Interactions *David Wishart, University of Alberta*
February 22	Genetics and Genomics of Model Organisms *Roger Reeves, The Johns Hopkins University School of Medicine*
March 1	Comparative Sequence Analysis *Elliott Margulies, NHGRI*
March 8	Noncoding Functional Elements *Laura Elnitski, NHGRI*
March 15	Evolutionary Analysis *Fiona Brinkman, Simon Fraser University*
March 22	Linkage Analysis and Complex Traits *Elaine Ostrander, NHGRI*
March 29	Studying Genetic Variation I: Laboratory Techniques *Karen Mohlke, University of North Carolina*
April 5	Studying Genetic Variation II: Computational Techniques *Jim Mullikin, NHGRI*
April 12	Microarray Analysis *Paul Meltzer, NHGRI*
April 19	Strategies for Disease Gene Identification *Dennis Drayna, NIDCD*