

BIOST 580B: Statistical Genetics Seminar. Autumn 2008.
(Changes likely to some of the readings.)

September 30: Introduction

October 7: Definitions of Linkage Disequilibrium.

Devlin and Risch. Genomics 29:311-322 (1995). [Historical: Lewontin and Kojima, Evolution 14:458-472 (1960). Lewontin, Genetics 120:849-852 (1988).]

Jon Wakefeld, Yanming Di, Yoonha Choi

October 14: Equilibrium values of LD.

Hill and Robertson, Theor and Applied Genetics 38:226-231 (1968). [Historical: Sved, Theor Pop Biol 2:125-141 (1971)]

Bruce Weir, Serge Sverdlow, Liz Marchini, Ming Su

October 21: Methods of Inference.

Weir, Biometrics 35:235-254 (1979)

Bruce Weir, Xiuwen Zheng, Karen Liu

October 28: EM Algorithm

Excoffier and Slatkin, Mol Biol Evol 12:921-927 (1995).

[Historical: Hill, Heredity 23:220-239 (1974)]

Elizabeth Thompson, Charles Cheung, Natalie Thompson

November 4: Multiple alleles.

Weir and Cockerham, Genetics 88:633-642.

Ellen Wijsman, Carolyn Hutter, Fred Boehm, Beate Peter,

November 11: Holiday

November 18: Haplotype Blocks.

Gabriel et al., Science 296:2225-2229.

[Historical: Chakravarti et al., Am J Hum Genet 36:1239-1258 (1984). Weir and Hill, Am J Hum Genet 38:776-781 (1984)]

Jon Wakefield, Tushar Bhangale, David Myers, Sangsoon Woo

November 25: LD and Recombination.

McVean et al., Science 304:581-584.

Elizabeth Thompson, Sarah Ng, Pui Yee Fong, Steven Lewis

December 2: Final Overview

McVean, Chapter 27 of "Handbook of Statistical Genetics"

Ellen Wijsman, Patrick Danaher, Kevin Rubenstein, Rori Rhofels