

**Statgen Seminar, Autumn 2012**  
Estimation of Human Mutation Rates

**October 2: Lisa Brown, Fiona Grissom; Bruce Weir**

Haldane JBS. 1935. The rate of spontaneous mutation of a human gene. *Journal of Genetics* 31:317-326.

**October 9:**

Guest lectures by Heike Bickeböllner and Bill Hill.

**October 16: Jean Morrison, Brenda Price; Elizabeth Thompson**

Crow JF. 1999. The odds of losing at genetic roulette. *Nature* 397:293-294.

Crow JF. 2006. The origins, patterns and implications of human spontaneous mutation. *Nature Reviews Genetics* 1:40-47.

**October 23: Kevin Rubenstein, Afshin Mashadi-Hosseini; Tim Thornton**

Jeffreys AJ. 1988. Spontaneous mutation rate to new length alleles at tandem-repetitive hypervariable loci in human DNA. *Nature* 332:278-281.

Valdes AM, Slatkin M, Freimer NB. 1993. Allele frequencies at microsatellite loci: The stepwise mutation model revisited. *Genetics* 135:737-749.

**October 30:**

Previews of ASHG presentations.

**November 6: Serge Sverdlov, Phillip Keung; Bruce Weir**

Nachman MW, Crowell SL. 2000. Estimate of the mutation rate per nucleotide in humans. *Genetics* 156:297-304.

**November 13: Jan Irvahn, Sandrine Moutou; Ellen Wijsman**

Awadalla P. et al. 2010. Direct measure of the *de novo* mutation rate in autism and schizophrenia cohorts. *Am J Hum Genet* 87:316-324.

**November 20: Chensheng Kuang, Liz Marchani, Yingying Zhuang; Bruce Weir**

Kondrashov FA, Kondrashov AS. 2010. Measurements of spontaneous rates of mutations in the recent past and the near future. *Phil Trans Roy Soc B: Biological Sciences* 365:1169-1176.

**November 27: Matt Conomos, Qian Zhang; Sharon Browning**

Covnaty A et al. 2010. Deep resequencing reveals excess rare recent variants consistent with explosive population growth. *Nature Commun.* November 30; 1: 131. doi: 10.1038/ncomms1130

**December 4: Caitlin McHugh, Xiuwen Zheng; Sharon Browning**

Beal MA, Glenn TC, Somers CM. 2012. Whole genome sequencing for quantifying germline mutation frequency in humans and model species: Cautious optimism. *Mutation Research* 750:96-106.

Sally A, Durbin R. 2012. Revising the human mutation rate: implications for understanding human evolution. *Nature Reviews Genetics* 13:745-753.

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