Graduate Seminar: Genetics and Human History

Description Each week, we will discuss several articles and/or book chapters. Come prepared with a set of questions or talking points on each article, so that you can lead the discussion if asked.

The course will focus on the question of admixture between early modern humans and archaics, such as Neandertals. We begin with articles that set the stage by summarizing the positions that have been argued over the past 20 years, and then plunge into the recent population genetics literature.

Term paper The term paper is due on the last day of class, should be 10–20 pages, double-spaced, and supported by at least 15 references from the scientific literature.

For advice on writing scientific papers, see Day [1998].

Grading Grades will be based on the term paper, class presentations, and discussion.

Plagiarism policy Any cheating or plagiarism will result in a failing grade for the course. See sections II and V of the student code (http://www.admin.utah.edu/ppmanual/8/8-10.html) for details.

Contact

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Provisional Syllabus

Each week one student will choose 2–5 articles (depending on length and difficulty) on that week’s topic. Feel free to choose an article that is not on the list. We will NOT read all the articles listed below.

01: Fri Aug 26 Orientation

02: Fri Sep 2 Skeletal evidence for admixture

1. Smith et al. [1989]
2. Trinkaus et al. [2003]
3. Duarte et al. [1999]

03: Fri Sep 9 Skeletal evidence against admixture

1. Stringer and Andrews [1988]
2. Kramer et al. [2001]
3. Stringer [2003]
4. Pearson [2004]
5. Foley [1998]

04: Fri Sep 16  Eurasian bottlenecks

1. Rogers and Harpending [1992]
2. Harpending et al. [1993]
3. Rogers and Jorde [1995]
4. Adcock et al. [2001]
5. Hawks and Wolpoff [2001]
6. Jorde et al. [1995]
7. Marth et al. [2004]

05: Fri Sep 23  Genetic evidence against admixture

1. Manderscheid and Rogers [1996]
2. Krings et al. [1997]
3. Nordborg [1998]
4. Serre et al. [2004]
5. Caramelli et al. [2003]
6. Takahata et al. [2001]
7. Yu et al. [2002]

06: Fri Sep 30  Genetic evidence for admixture

1. Stefansson et al. [2005]
2. Hardy et al. [2005]
3. Evans et al. [2005]
4. Reed et al. [2004]
5. Garrigan et al. [2005a]
7. Garrigan et al. [2005b]
8. Relethford [1999]
9. Relethford [2001a]
10. Labuda et al. [2000]
11. Culotta [2005]
12. Eswaran [2002]
13. Eswaran et al. [2005]
14. Wang et al. [2004]

07: Fri Oct 14 Genetic evidence for admixture
08: Fri Oct 21 Genetic evidence for admixture
09: Fri Oct 28 Genetic evidence for admixture
10: Fri Nov 4 What were Neandertals like?
   1. Bochrens et al. [2005]
   2. Richards et al. [2001]
   1. Wall [2000]
   2. Barton and Ethridge [2004]
12: Fri Nov 18 Detecting admixture II: Linkage disequilibrium
   1. Reich et al. [2001]
   2. Wall [1999]
   3. Toomajian et al. [2003]
   4. Sabeti et al. [2003]
13: Fri Dec 2 Student presentations

References


