Genomics Workshop

Demography of Aging Centers Biomarker Network Meeting in Conjunction with the Annual Meeting of the PAA

April 14, 9:00 AM to 3:30 PM – Hyatt Regency, Dallas, Texas

Sponsored by USC/UCLA Center of Biodemography and Population Health

Organized by Teresa Seeman, Steven Cole, Eileen Crimmins

9:00-10:00 AM Tactical aspects of study administration and sample capture/storage
   1. DNA
   2. RNA

10:15-10:45 AM Biological overview of genetics & functional genomics
   1. Theoretical framework: Genes, Environments, transcription, and health
   2. System dynamics

11:00-12:00 Strategic aspects of study design and data analysis – Introduction
   1. Basic substantive objectives & study designs

12:00-1:00 PM Lunch

1:00-2:30 PM Strategic aspects of study design and data analysis – Continued
   2. Study designs, assay technologies, and statistical methods
      a. Gene discovery
         i. Candidate gene studies
         ii. Genome-wide association studies
         iii. The bioinformatic middle road
      b. Environmental regulation of health (via transcription)
         i. Candidate transcript studies
         ii. Genome-wide approaches
      c. Gene-Environment interaction
         i. Revisiting the “bioinformatic” middle road

2:45-3:15 PM Perspectives on the State of the Field
   How can we best promote the integration of genetic and demographic approaches? Discussants from current major studies.

3:15-4:00 PM Application clinic
   Open microphone Q & A

We are limited to 50 people. Persons who would like to attend please let us know by March 1.
Email to crimmin@usc.edu
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Suggested Background Reading:


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