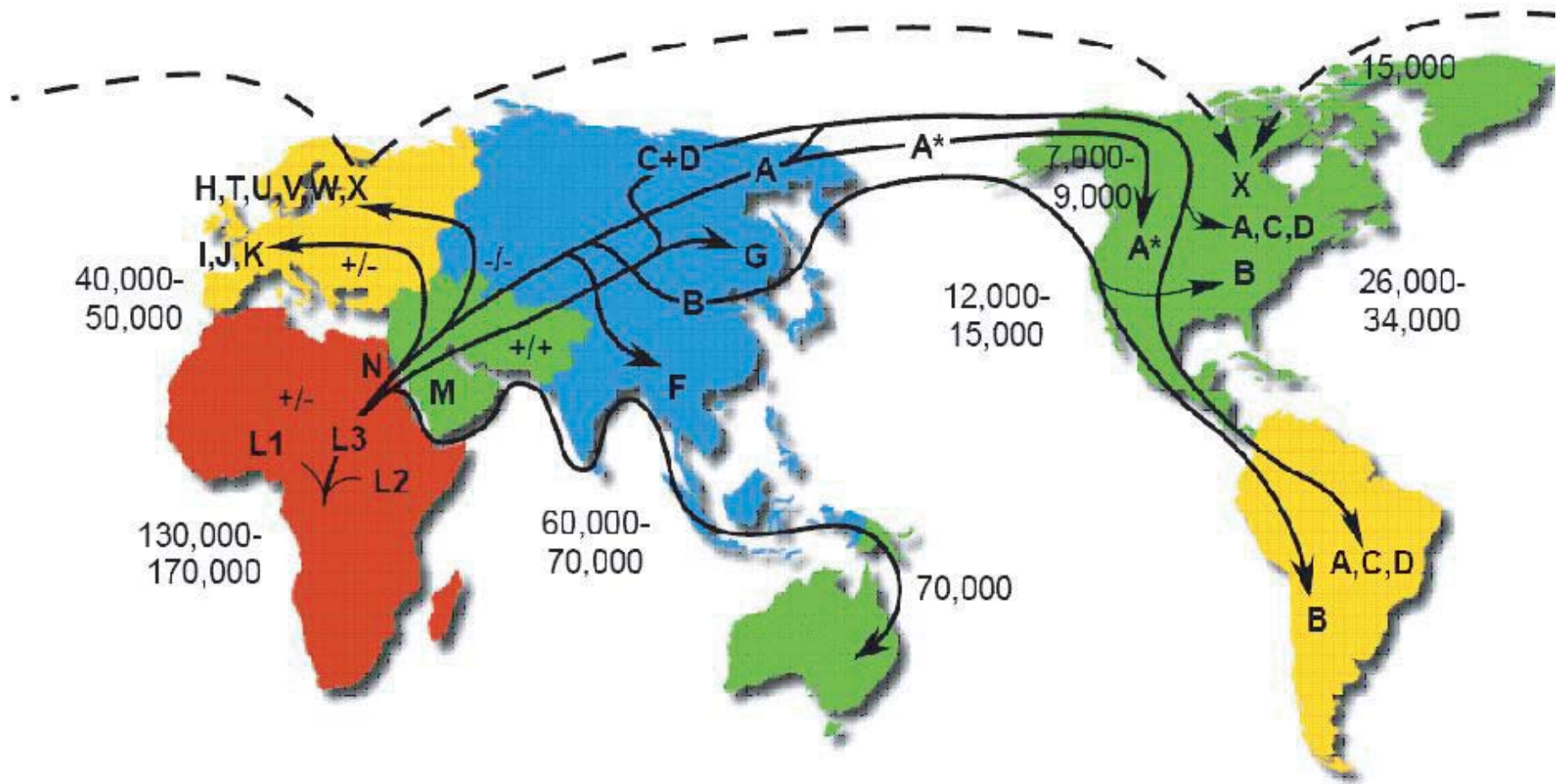


Boston University Physics Colloquium

Human mtDNA Migrations

<http://www.mitomap.org/mitomap/WorldMigrations.pdf>

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* = Rsa I 16329

Mutation rate = 2.2 - 2.9 % / MYR
Time estimates are YBP

What PCA and clustering reveal about human migration, breast cancer and longevity

The sequencing of genomes has created a new opportunity for physicists, chemists, mathematicians, statisticians, computer scientists and engineers to help make new discoveries in the biological sciences. In this talk, I will describe how two simple techniques, principal component analysis (PCA) and consensus ensemble clustering, give new insights into problems in population genetics, cancer and longevity.

Gyan Bhanot

Rutgers University

September 18, 2007 (Tuesday) at 3:30 pm (Refreshments at 3:15 pm)

SCI 107, Metcalf Science Center, Boston University

Call: Winna Somers (wsomers@bu.edu) (617)353-9320

Host: Prof. Bennett Goldberg