

Formal and Population Genetics 2017

TOPICS

Formal and population genetics
Evolution

SYLLABUS

Probabilities, odds ratios and likelihoods

Formal bases of Mendelian theory
Transmission modes
Segregation analyses

Linkage
Recombination fraction

Hardy-Weinberg formalism
Homogametic loci
Gene frequency estimation
Heterogametic loci
Testing HW equilibrium
Population comparisons
Simultaneous analysis of two loci
Haplotype frequencies
Gametic determinant
Uniparental transmission
Y chromosome and mtDNA

Forensic Genetics

Population Genetics and Evolution
Evolutionary analysis of genetic data

TIMETABLE

March 19-21, 10h-18h

HANDBOOKS & LECTURING NOTES

Hamilton, M., 2009. Population Genetics. Wiley-Blackwell (and the companion website
<http://www.blackwellpublishing.com/hamiltongenetics/>)

Amorim A, Budowle B (2016) Handbook of forensic genetics: biodiversity and heredity in civil and criminal investigation. World Scientific, New Jersey.

Amorim A (2005) A primer of population genetics