

## **Imbalance index for microsatellite loci and inference on population demography, substructure and selective sweeps**

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Imbalance index was introduced by Kimmel et al. (Genetics 1998) for the purpose of estimating the past demography of modern human populations based on statistics of microsatellite markers. The index was used by a number of authors to investigate past population histories in different contexts, including molecular ecology. In the talk, the imbalance index is presented and its sensitivity and specificity as a tool to investigate population's past is discussed. The mathematical background includes coalescence theory and related notions.

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