• Discussion of the effect of recombination on estimators, and the optimal sequencing strategy for maximising the information in a sample is given in Pluzhnikov and Donnelly (1996).

• An introduction to Linkage Disequilibrium is given in Hartl and Clark (1997); pages 95–107.

• Results concerning the expected value of $\Delta^2$ are given in Sved (1971) and Ohta and Kimura (1969).

• Using pairwise linkage disequilibrium values to detect the presence of recombination in mitochondria DNA was first suggested by Awadalla et al. (1999). See also the discussion of Kumar et al. (2000), and the more recent study of Ingman et al. (2000).

• The coalescent with recombination is detailed in Hudson (1983), Hudson and Kaplan (1985), Griffiths and Marjoram (1996b) and Fearnhead and Donnelly (2000).

• A “method of moments” estimator for the recombination rate was suggested by Hudson (1987); and refined by Wakeley (1997).

• Full-likelihood methods for estimating recombination rates have been developed by:
  - Griffiths and Marjoram (1996a),
  - Nielsen (2000),
  - Fearnhead and Donnelly (2000) (see http://stats.ox.ac.uk/~fhead/software/),
  - Markovtsova et al. (2001).

• Likelihood-based estimators for summaries of the data are suggested by Wall (2000), who also compares numerous different methods of estimation.

References


