Finding recombination breakpoints in HIV sequences from an individual

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Abstract:

Recombination involves the exchange of genetic material and is known to generate diversity in populations of sexually reproducing organisms. Recombination also plays a role in generating diversity in viral populations. In viruses, recombination can lead to new more virulent or drug-resistant strains. Phylogenetic profiling is a quick method for graphically displaying possible recombination breakpoints in a set of aligned sequences. I will discuss the evaluation of evidence for recombination breakpoints in phylogenetic profiles and present results from an analysis of HIV sequences sampled from an individual with a diverse virus population.