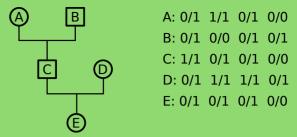
## **Molecular Haplotyping** Chromosome sorting (FACS, microfluidics, ...) StrandSeq haplotype cost/labor synthetic long reads (TruSeq, 10xGenomics, ...) SHAPEIT extension (Delaneau et al., 2013) 3rd-gen. sequencing (PacBio, ONT, ...) Part 1 2nd-gen. sequencing (Illumina, ...)

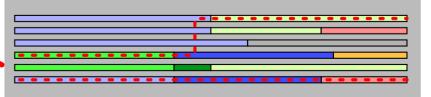
## **Genetic Haplotyping**



Use genotypes across a pedigree

Supported by most packages for statistical phasing (SHAPEIT, beagle, etc.)

## **Statistical Phasing**



Use genotypes/haplotypes from a reference population