Molecular Haplotyping

haplotypes

cost/labor

Chromosome sorting (FACS, microfluidics, ...) StrandSeq

> synthetic long reads (TruSeq, 10xGenomics, ...)

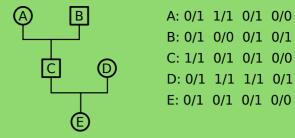
3rd-gen. sequencing (PacBio, ONT, ...)

Part 1

2nd-gen. sequencing (Illumina, ...)

SHAPEIT extension

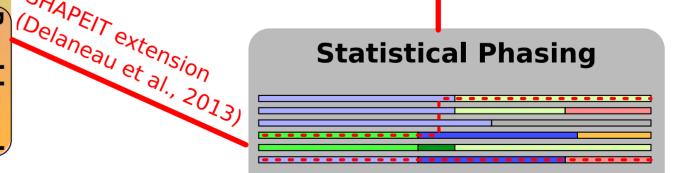
Genetic Haplotyping



Use genotypes across a pedigree

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

Statistical Phasing



Use genotypes/haplotypes from a reference population