

Read-based phasing is a method for determining the phase of genetic variants. It involves analyzing reads from a sequencing experiment to identify which variants are present on the same DNA molecule. This is typically done by looking for reads that contain multiple variants and determining if they are all present on the same read. Read-based phasing can be used to identify haplotypes and to study the relationship between different variants. It is a powerful tool for understanding the genetic architecture of complex traits and for identifying potential causal variants. Read-based phasing can be performed using a variety of methods, including statistical methods, machine learning, and graph-based methods. Each method has its own strengths and weaknesses, and the choice of method depends on the specific data and the goals of the analysis. Read-based phasing is an active area of research, and new methods are being developed all the time. As sequencing technology continues to improve, read-based phasing will become an increasingly important tool for genetic research.



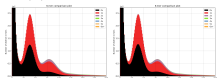
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Variant	Position	Ref	Alt	Phase
chr1:1000000	1000000	A	G	1
chr1:1000000	1000000	A	G	2
chr1:1000000	1000000	A	G	3
chr1:1000000	1000000	A	G	4
chr1:1000000	1000000	A	G	5

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chr1:1000000	1000000	A	G	1
chr1:1000000	1000000	A	G	2
chr1:1000000	1000000	A	G	3
chr1:1000000	1000000	A	G	4
chr1:1000000	1000000	A	G	5



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