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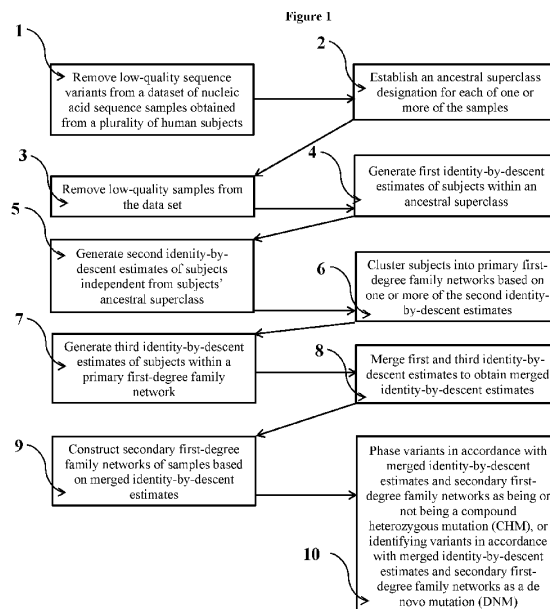
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(54) Title: SYSTEMS AND METHODS FOR LEVERAGING RELATEDNESS IN GENOMIC DATA ANALYSIS



(57) Abstract: Methods, non-transitory computer-implemented methods and systems for identifying compound heterozygous mutations (CHMs) and de novo mutations (DNMs) in populations are provided. Also provided are methods for phasing genetic variants in a population by leveraging the populations relatedness. Further provided is a prediction model of relatedness in a human population.

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