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< Closing Par> The area of genetic sequencing has been enjoying a period of exponential growth for several decades now. Breakthroughs in chemistry, as well as significant improvements in sequencing equipment, have led to a rapid decline in the cost of sequencing an organism's genetic data. At the same time, the increasing power of computing machinery and the decreasing cost of storage have encouraged the ever-greater accumulation of data in a large variety of areas. These two pressures have made, and will continue to make, the sequencing of DNA from large numbers of organisms more accessible. Already, there are projects in various stages of completion which aim to sequence hundreds, or even thousands, of genomes from a single species or clade. While these developments are beneficial to the fields of biology and genomics, they do present new challenges and highlight shortcomings in the existing models used to represent genetic data. The current standard in genomics is to use the genome of a single organism as a reference for its species. The increasing prevalence of multiple complete genomes per species leads to a desire for more than one reference sequence per species. Older models in computational genomics do not have the power required to adequately handle multiple reference genomes. It is now seen as desirable to create a pan-genome, a single representation of all available gene sequences from a species which can be viewed as a single entity. The SplitMEM algorithm is designed to take multiple genomic lines and convert them to a compressed de Bruijn graph pan-genome representation, which will enable the isolation of common features in the genomes so that characteristics of the entire species or clade can be identified while gene sequences specific to an individual organism can be de-emphasized.