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implementing internal cloud-based extensible compute environments.

This approach enables a timely response to the rapidly changing flow of data and the information and knowledge derived from it. In terms of software advances, programming for machine learning and artificial intelligence has much to contribute in identifying patterns and trends when analysing large quantities of genomic data. Comparison of whole genome sequences and variant call files (VCFs) resulting from these large sequencing projects are areas of active research.

#### References

1. Luscombe NM, Greenbaum D, Gerstein M (2001) What is bioinformatics? An introduction and overview. *Yearb Med Inform* 10(01): 83-100.
2. Luscombe NM, Greenbaum D, Gerstein M (2001) What is bioinformatics? A