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Nowadays, Next Generation
Sequeencing (NGS) is a catch-

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all term used to describe different modern DNA sequencing applications that produce big genomics data that can be analysed in a faster fashion than in the past.

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role of genomics in disease research involves determining how a patient would react to a particular drug. The process is referred to as “Pharmacogenomics” or “Personalized medicine”.

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explores the emerging intersection between big data analytics and genomics. Recent sequencing technologies have enabled high-throughput sequencing data generation for genomics resulting in several

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Modern technology such as big data analytics can help to make traditional knowledge-based medical approaches “evidence based” by unveiling previously “invisible” information about their efficacy,

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genomics. Genomic data have

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been growing explosively in the past few years. Until now, there are more than 500K gene expression profiles in public databases (e.g., NCBI Gene...

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Now genomics and patient
data are being combined to
inform diagnosis and
treatment, and to locate new
targets for even more
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new therapeutic targets with help of big data At the Munich Leukemia Laboratory (MLL), scientists sequence known “hot-spots” or a series of hot-spots in panels of around 80 blood cancer genes from patients

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Medicine ...

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The amount of data being produced by sequencing, mapping, and analyzing genomes propels genomics into the realm of Big Data. Genomics produces huge volumes of data; each human genome has 20,000-25,000

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Springer comprised of 3 million base pairs. This amounts to 100 gigabytes of data, equivalent to 102,400 photos. Sequencing multiple human genomes would quickly add up to hundreds of petabytes of data, and the

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data created by analysis of
gene interactions multiplies
those further.

Genomics and the role of big
data in personalizing the

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Big data in genomics is characterized by its high dimensionality, which refers both to the sample size and number of variables and their structures. The pure volume of the data brings challenges in data storage

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Springer and computation. The data volume can be on the order of terabytes for just the raw data of each sample.

Big data challenges in
genomics - ScienceDirect

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Abstract. The leverage of high-throughput technologies in biology area brings the academia and industry an enormous amount of “omics” data. These data include genomics data and proteomics data. In this chapter we

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Consider mostly on the
genomics data. Benefited
from the development of “Big
Data” area and also the
domain knowledge driven by
genomics data, two
subsequent areas including
precision medicine and

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cancer genomics, are
discussed in this chapter.

Big data in genomics –
Monash University
December 06, 2019 - In
recent years, genomics and

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Genetic data have emerged as an innovative area of research that could potentially transform healthcare. This information could accelerate precision medicine, paving the way for individualized therapies

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Springer tailored to each person.
Studies have examined how
genomics could improve care
for Alzheimer's, heart
failure, and a number of
other diseases ...

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Evaluating the Benefits and
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High performance data
analytics—the confluence of
HPC and big data—is raising
the bar for data-intensive
problems. Advancements in

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HPC and data analytics are spurring new capabilities in visualization, modeling and simulation, and genomics analytics.

High Performance Data

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Big Data ...

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manipulation of diverse
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More recent biological
disciplines such as

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macromolecular structure and genomics have inherited many of these data analytics features from genetics and other natural sciences. Genomics, for example, emerged in the 1980s at the confluence of genetics,

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Springer, and large-scale
datasets [17].

Genomics and data science:
an application within an ...
Genomic data are primarily
used in big data processing

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Springer and analysis techniques. Such data are gathered by a bioinformatics system or a genomic data processing software. Typically, genomic data are processed through various data analysis and management techniques to

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find and analyze genome structures and other genomic parameters.

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