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4) Next Generation Sequencing (NGS) - Data Analysis

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Statistical Analysis of Next  
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Provides statistical tools for  
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the field of NGS Useful for  
students and researchers that  
work in biomedical research and  
genomic medicine

## Statistical Sciences

### Statistical Analysis of Next Generation Sequencing Data ...

Next Generation Sequencing (NGS) is the latest high throughput technology to revolutionize genomic research. NGS generates massive genomic datasets that play a key role in the big data phenomenon that surrounds us today. To extract signals from high-dimensional NGS data and make valid statistical inferences and predictions, novel data analytic and statistical techniques are needed.

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high throughput technology to revolutionize genomic research.

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## Statistical Analysis of Next Generation Sequencing Data ... Integrated Nested Laplace



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Approximation (INLA), implemented in the R-package r-inla, is a very versatile methodology for the Bayesian analysis of next generation sequencing count data: it can...

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## Statistical Analysis of Next Generation Sequencing Data ...

Source: Metzker ML. Sequencing technologies - the next generation. Nat Rev Genet. 2010 Source: Whiteford et al. Swift: primary data analysis for the Illumina Solexa sequencing platform. Bioinformatics. 2009 Source: Metzker ML. Sequencing technologies - the next generation. Nat Rev Genet. 2010 name sequence quality scores x 100s of millions

## Statistical Methods for Next

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## Generation Sequencing

Next generation sequencing (NGS) is a revolutionary technology for biomedical research. One highly cost-efficient application of NGS is to detect disease association based on pooled DNA samples. However, several key issues need to be addressed for pooled NGS.

## Design and Statistical Analysis of Pooled Next Generation ...

The boom of next generation sequencing (NGS) technology and its applications to a wide range of biomedical fields has brought about many computational and statistical challenges. The NHGRI funded small conference “ Statistical Analysis for NGS ” was held September 26th – 27th 2011 in Birmingham, AL, USA, to discuss

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these statistical challenges and strategies to tackle them.

Statistics for Next Generation

Sequencing – Meeting Report

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This proposal is to develop

advanced statistical methods for

analyzing large next generation

sequencing data in genetic cancer

epidemiological studies. The

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genomic era provides an unprecedented promise of understanding multifactorial diseases, such as cancer, and of identifying specific targets that can be used to develop patient-tailored therapies.

## Project 3: Statistical Methods for Analysis of Next ...

Abstract We develop a statistical tool SNVer for calling common and rare variants in analysis of pooled or individual next-generation sequencing (NGS) data. We formulate variant calling as a hypothesis testing problem and employ a binomial – binomial model to test the significance of observed allele frequency against sequencing error.

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SNVer: a statistical tool for variant calling in analysis ...

Chapter 1 Statistical Analyses of Next Generation Sequencing Data: An Overview Altmetric Badge.

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Sequencing Data Analysis book.

By Xinkun Wang. Edition 1st

Edition . First Published 2016 .

Next-Generation Sequencing Data  
Analysis | Taylor ...

Next-Generation Data Storage

Market size is poised to grow at a double digit CAGR from 2019 to 2025 propelled by massive growth in digital data volumes. With the increase in globalization and digitalization, there is a massive increase in the volume of file and unstructured data.

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