

# Bioinformatics Market Analysis And Segment Forecasts To 2020

<https://marketpublishers.com/r/B9651751BBAEN.html>

Date: April 2014

Pages: 78

Price: US\$ 5,950.00 (Single User License)

ID: B9651751BBAEN

## Abstracts

The global market for bioinformatics is expected to reach USD 12.48 billion by 2020. Rapidly declining prices of DNA sequencing, growing adoption rates of bioinformatics as a cost effective tool for database management during clinical trials, increasing government initiatives encouraging the use of bioinformatics in drug discovery and the use of bioinformatics tools in emerging fields such as chemogenomics are some of the factors expected to drive market growth over the next six years. In addition, the introduction of advance technologies such as nanopore and cloud computing are expected to serve this market as future growth opportunities.

Bioinformatics platform products are expected to dominate the market, along with being the fastest growing segment, at an estimated CAGR of 22.8% from 2014 to 2020. The increasing demand for these platforms in technologically advanced processes such as high throughput screening for combination therapies namely pharmacogenomics and pharmacoproteomics is expected to serve this market as drivers during the forecast period. Global biocontent product demand is expected to reach USD 4.30 billion by 2020, growing at a CAGR of 16.9% from 2014 to 2020.

Further key findings from the study suggest:

Bioinformatics based metabolomics applications are expected to grow at the highest CAGR of over 23.0% from 2014 to 2020 owing to the introduction of new analytical instruments proving vital for high throughput and accuracy enabled metabolite profiling.

North America was the largest regional market in 2013, accounting for over 42% of global revenue. The presence of sophisticated healthcare infrastructure enabling advance R&D exercises, high availability of government funding and the high volume of

pre-clinical studies conducted in this region are some of the factors expected to drive market growth.

Asia Pacific bioinformatics market is expected to grow at the highest CAGR of 25.9% from 2014 to 2020 on account of rising demand for CRO (Contract Research Outsourcing) initiatives as a result of high cheap labor availability and rapidly improving healthcare infrastructure in emerging markets such as India and China.

Key industry participants include IBM Life Sciences, Agilent Technologies, Affymetrix, Life Technologies Corporation, 3rd Millennium Inc., Celera Corporation, Accelrys Inc. and others.

For the purpose of this study, Grand View Research has segmented the global bioinformatics market on the basis of product, application and region:

## Bioinformatics Product Outlook

### Bioinformatics Platforms

Sequence Analysis Platforms

Sequence Manipulation Platforms

Sequence Alignment Platforms

Structural and Functional Analysis Platforms

Others

### Bioinformatics Services

Database Management

Sequencing

Data Analysis

Others

Biocontent

Generalized Biocontent

Specialized Biocontent

Bioinformatics Application Outlook

Genomics

Molecular Phylogenetics

Metabolomics

Proteomics

Transcriptomics

Cheminformatics and Drug Designing

Others

Bioinformatics Regional Outlook

North America

Europe

Asia Pacific

RoW

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

1.1. Bioinformatics – Industry Summary and Critical Success Factors (CSFs)

### CHAPTER 2. BIOINFORMATICS INDUSTRY OUTLOOK

- 2.1. Market Segmentation
- 2.2. Market Size and Growth Prospects
- 2.3. Bioinformatics Market Dynamics
  - 2.3.1. Market Driver Analysis
  - 2.3.2. Market Restraint Analysis
- 2.4. Key Opportunities Prioritized
- 2.5. Industry Analysis - Porter's
- 2.6. Bioinformatics Market PESTEL Analysis, 2012

### CHAPTER 3. BIOINFORMATICS PRODUCT OUTLOOK

- 3.1. Bioinformatics Platforms
  - 3.1.1. Bioinformatics Platforms Market Estimates and Forecasts, 2012 – 2020 (USD Million)
    - 3.1.2. Sequence Analysis Platforms
      - 3.1.2.1. Sequence Analysis Platforms Market Estimates and Forecasts, 2012 – 2020 (USD Million)
        - 3.1.2.2. Structural and Functional Analysis Platforms
          - 3.1.2.2.1. Structural and Functional Analysis Platforms Market Estimates and Forecasts, 2012 – 2020
        - 3.1.2.3. Sequence Alignment Platforms
          - 3.1.2.3.1. Sequence Alignment Platforms Market Estimates and Forecasts, 2012 – 2020 (USD Million)
        - 3.1.2.4. Sequence Manipulation Platforms
          - 3.1.2.4.1. Sequence Manipulation Platforms Market Estimates and Forecasts, 2012 – 2020 (USD Million)
        - 3.1.2.5. Others
          - 3.1.2.5.1.1. Other Platforms Market Estimates and Forecasts, 2012 – 2020 (USD Million)
- 3.2. Biocontent
  - 3.2.1. Biocontent Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.2.2. Generalized Biocontent Tools

3.2.2.1. Generalized Biocontent Tools Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.2.3. Specialized Biocontent Tools

3.2.3.1.1. Specialized Biocontent Tools Market Estimates and Forecasts, 2012 – 2020 (USD Million)

## 3.3. Services

3.3.1. Bioinformatics Services Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.3.2. Sequencing

3.3.2.1. Sequencing Services Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.3.3. Data Analysis Services

3.3.3.1. Data Analysis Services Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.3.4. Database Management Services

3.3.4.1. Database Management Services Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 3.3.5. Other Services

3.3.5.1. Other Bioinformatics Services Market Estimates and Forecasts, 2012 – 2020 (USD Million)

## **CHAPTER 4. BIOINFORMATICS APPLICATION OUTLOOK**

### 4.1. Genomics

4.1.1. Genomics Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.2. Molecular Phylogenetics

4.2.1. Molecular Phylogenetics Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.3. Metabolomics

4.3.1. Metabolomics Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.4. Proteomics

4.4.1. Proteomics Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.5. Transcriptomics

4.5.1. Transcriptomics Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.6. Chemoinformatics and Drug Designing

4.6.1. Chemoinformatics and Drug Designing Market Estimates and Forecasts, 2012 – 2020 (USD Million)

### 4.7. Others

4.7.1. Other Applications Market Estimates and Forecasts, 2012 – 2020 (USD Million)

## **CHAPTER 5. BIOINFORMATICS REGIONAL OUTLOOK**

### 5.1. North America

5.1.1. Bioinformatics Market Estimates and Forecasts, by Products, 2012 – 2020 (USD Million)

5.1.2. Bioinformatics Market Estimates and Forecasts, by Applications, 2012 – 2020 (USD Million)

### 5.2. Europe

5.2.1. Bioinformatics Market Estimates and Forecasts, by Products, 2012 – 2020 (USD Million)

5.2.2. Bioinformatics Market Estimates and Forecasts, by Applications, 2012 – 2020 (USD Million)

### 5.3. Asia Pacific

5.3.1. Bioinformatics Market Estimates and Forecasts, by Products, 2012 – 2020 (USD Million)

5.3.2. Bioinformatics Market Estimates and Forecasts, by Applications, 2012 – 2020 (USD Million)

### 5.4. RoW

5.4.1. Bioinformatics Market Estimates and Forecasts, by Products, 2012 – 2020 (USD Million)

5.4.2. Bioinformatics Market Estimates and Forecasts, by Applications, 2012 – 2020 (USD Million)

## **CHAPTER 5 COMPETITIVE LANDSCAPE**

### 5.1 Accelrys Inc.

5.1.1 Company Overview

5.1.2 Financial Performance

5.1.3 Product Benchmarking

5.1.4 Strategic Initiatives

### 5.2 IBM Life Sciences

5.2.1 Company Overview

5.2.2 Financial Performance

5.2.3 Product Benchmarking

5.2.4 Strategic Initiatives

### 5.3 3rd Millennium Inc.

5.3.1 Company Overview

- 5.3.2 Financial Performance
- 5.3.3 Product Benchmarking
- 5.3.4 Strategic Initiatives
- 5.4 Life Technologies Corporation
  - 5.4.1 Company Overview
  - 5.4.2 Financial Performance
  - 5.4.3 Product Benchmarking
  - 5.4.4 Strategic Initiatives
- 5.5 Agilent Technologies
  - 5.5.1 Company Overview
  - 5.5.2 Financial Performance
  - 5.5.3 Product Benchmarking
  - 5.5.4 Strategic Initiatives
- 5.6 Affymetrix
  - 5.6.1 Company Overview
  - 5.6.2 Financial Performance
  - 5.6.3 Product Benchmarking
  - 5.6.4 Strategic Initiatives
- 5.7 Celera Corporation
  - 5.7.1 Company Overview
  - 5.7.2 Financial Performance
  - 5.7.3 Product Benchmarking
  - 5.7.4 Strategic Initiatives
- 5.8 Rosetta Inpharmatics
  - 5.8.1 Company Overview
  - 5.8.2 Financial Performance
  - 5.8.3 Product Benchmarking
  - 5.8.4 Strategic Initiatives
- 5.9 BioWisdom Ltd.
  - 5.9.1 Company Overview
  - 5.9.2 Financial Performance
  - 5.9.3 Product Benchmarking
  - 5.9.4 Strategic Initiatives

## **CHAPTER 7. METHODOLOGY AND SCOPE**

- 7.1. Research Methodology
- 7.2. Research Scope & Assumption
- 7.3. List of Data Sources





## List Of Tables

### LIST OF TABLES

Bioinformatics – Industry summary & Critical Success Factors (CSFs)

Global Bioinformatics revenue, 2012 - 2020

Global Bioinformatics market revenue by region, (USD million), 2012 - 2020

Global Bioinformatics market revenue by products, (USD million), 2012 - 2020

Global bioinformatics platforms, 2012 to 2020 (USD million)

Global bioinformatics platforms market, by region, 2012 to 2020 (USD million)

Global sequence analysis platforms demand, 2012 to 2020 (USD million)

Global structural and functional analysis platforms demand, 2012 to 2020 (USD million)

Global structural and functional analysis platforms demand, 2012 to 2020 (USD million)

Global sequence alignment platforms demand, 2012 to 2020 (USD million)

Global sequence manipulation platforms demand, 2012 to 2020 (USD million)

Global other platforms demand, 2012 to 2020 (USD million)

Global biocontent market, 2012 to 2020 (USD million)

Global biocontent market, by region, 2012 to 2020 (USD million)

Global generalized biocontent tools demand, 2012 to 2020 (USD million)

Global specialized biocontent tools demand, 2012 to 2020 (USD million)

Global bioinformatics services demand, 2012 to 2020 (USD million)

Global bioinformatics services demand, by region, 2012 to 2020 (USD million)

Global sequencing services demand, 2012 to 2020 (USD million)

Global data analysis services demand, 2012 to 2020 (USD million)

Global database management services demand, 2012 to 2020 (USD million)

Global other services demand, 2012 to 2020 (USD million)

Global bioinformatics based genomics market, 2012 to 2020 (USD million)

Global bioinformatics based genomics market, by region, 2012 to 2020 (USD million)

Global bioinformatics based molecular phylogenetics market, 2012 to 2020 (USD million)

Global bioinformatics based molecular phylogenetics market, by region, 2012 to 2020 (USD million)

Global bioinformatics based metabolomics market, 2012 to 2020 (USD million)

Global bioinformatics based metabolomics market, by region, 2012 to 2020 (USD million)

Global bioinformatics based proteomics market, 2012 to 2020 (USD million)

Global bioinformatics based proteomics market, by region, 2012 to 2020 (USD million)

Global bioinformatics based transcriptomics market, 2012 to 2020 (USD million)

Global bioinformatics based transcriptomics market, by region, 2012 to 2020 (USD million)

million)

Global bioinformatics based chemoinformatics and drug designing market, 2012 to 2020 (USD million)

Global bioinformatics based chemoinformatics and drug designing market, by region, 2012 to 2020 (USD million)

Global other applications market, 2012 to 2020 (USD million)

Global other applications market, by region, 2012 to 2020 (USD million)

North America bioinformatics demand, by products, (USD million), 2012 – 2020

North America bioinformatics demand, by applications, (USD million), 2012 - 2020

Europe bioinformatics demand, by products, (USD million), 2012 – 2020

Europe bioinformatics demand, by applications, (USD million), 2012 - 2020

Asia Pacific bioinformatics demand, by products, (USD million), 2012 – 2020

Asia Pacific bioinformatics demand, by applications, (USD million), 2012 - 2020

RoW bioinformatics demand, by products, (USD million), 2012 – 2020

RoW bioinformatics demand, by applications, (USD million), 2012 - 2020

Global Bioinformatics Market - Competitive Landscape

## List Of Figures

### LIST OF FIGURES

Bioinformatics Market Segmentation

Global Bioinformatics Market Revenue, 2012 - 2020

Bioinformatics Market Dynamics

Bioinformatics Company Market Share Analysis, 2012

Key Opportunities Prioritized

Industry Analysis - Porter's

Bioinformatics PESTEL Analysis, 2012

Global bioinformatics revenue, by products, (USD million), 2012 – 2020

Global bioinformatics platforms market, by products, (USD million), 2012 – 2020

Global bioinformatics services market, by products, (USD million), 2012 – 2020

Global biocontent market, by products, (USD million), 2012 – 2020

Global bioinformatics market, by applications, (USD million), 2012 – 2020

Global bioinformatics based genomics market, (USD million), 2012 - 2020

Global bioinformatics based molecular phylogenetics market, (USD million), 2012 - 2020

Global bioinformatics based metabolomics market, (USD million), 2012 - 2020

Global bioinformatics based proteomics market, (USD million), 2012 - 2020

Global bioinformatics based transcriptomics market, (USD million), 2012 - 2020

Global bioinformatics based chemoinformatics and drug designing market, (USD million), 2012 - 2020

Global bioinformatics based other applications market, (USD million), 2012 - 2020

Bioinformatics market - company market share analysis, 2013 (%)

## I would like to order

Product name: Bioinformatics Market Analysis And Segment Forecasts To 2020

Product link: <https://marketpublishers.com/r/B9651751BBAEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B9651751BBAEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970