Protein Engineering Market by Technology, Product, Protein Type, End User - Global Forecast to 2020

Description: Protein Engineering Market by Technology (Rational Protein Design, Irrational Protein Design), Product (Instrument, Services), Protein Type (Monoclonal Antibodies, Interferon, Growth Hormone), End User (Academics Institutes, CROs) - Global Forecast to 2020

Developing Asian countries such as the China and India are lucrative markets for protein engineering, owing to increase in R&D investment by the biologics companies in these regions.

The report segments the global protein engineering market product, technology, protein type, end user, and region. Instruments accounted for the largest share of the global Protein engineering market, by product in 2014. However, services and software is expected to grow at the highest CAGR during the forecast period, owing to ongoing technological advancements in this segment.

Rational protein design accounted the largest share of protein engineering market, by technology in 2014. This large share is attributed to increase in adoption of this technique over irrational protein design.

Based on protein type, the market is categorized into monoclonal antibodies, insulin, erythropoietin, interferon, colony stimulating factor, growth hormones, coagulation factor, vaccines and others (interleukins, follicle stimulating hormones, enzyme replacement). Monoclonal antibodies is the largest as well as fastest growing segment of the protein engineering protein type market. This growth is attributed to the increase in adoption of them for various therapies such as cancer and autoimmune diseases.

On the basis of end user, the protein engineering market is categorized academic research institutes, pharmaceutical and biotechnology companies, and contract research organizations. Pharmaceutical and biotechnology companies is the largest and fastest-growing end user segment. The high growth rate of this segment can be attributed to technological advancements in protein engineering and the increase in R&D budgets in the pharmaceutical sector.

New and innovative product launches was the dominant strategy adopted by key industry participants to increase their market share and cater to unmet needs.

From an insight perspective, this research report focuses on qualitative data, market size, and growth of various segments and subsegments, competitive landscape, and company profiles. The qualitative data covers various levels of industry analysis such as market dynamics (drivers, restraints, opportunities, and threats), winning imperatives, and burning issues. The report also offers market sizes and data on the growth of various segments in the industry. It focuses on emerging and high-growth segments, high-growth regions, and initiatives of governments. The competitive landscape covers growth strategies adopted by industry players in the last three years. The company profiles comprise basic views on key players in the protein engineering market and the product portfolios, developments, and strategies adopted by market players to maintain and increase their market shares in the near future. The above-mentioned market research data, current market size, and forecast of future trends will help key players and new entrants to make the necessary decisions regarding product offerings, geographical focus, change in approach, R&D investments for innovations in products and technologies, and levels of output in order to remain successful.

Contents: 1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Markets Covered
1.4 Years Considered for the Study
1.5 Currency
1.6 Limitations
1.7 Stakeholders
2 Research Methodology
2.1 Market Size Estimation
2.2 Market Crackdown and Data Triangulation
2.2.1 Key Data From Secondary Sources
2.2.2 Key Data From Primary Sources
2.2.2.1 Key Industry Insights
2.2.3 Assumptions

3 Executive Summary

4 Premium Insights
4.1 Attractive Opportunities in the Protein Engineering Market
4.2 Market, By End User
4.3 Market, By Technology
4.4 Market, By Product
4.5 Market Growth Opportunities, By Region
4.6 Lifecycle Analysis, By Region

5 Market Overview
5.1 Introduction
5.2 Market Dynamics
5.2.1 Drivers
5.2.1.1 Increase in Adoption of Protein-Based Drugs Over Non-Protein-Based Drugs
5.2.1.2 Reduction in Overall Timeline and Cost for Drug Discovery
5.2.1.3 High Prevalence Rate of Lifestyle Diseases
5.2.1.4 Growth in Funding for Protein Engineering
5.2.2 Restraints
5.2.2.1 Expensive and High Maintenance Tools and Instruments Used in Protein Engineering
5.2.3 Opportunities
5.2.3.1 Significant Growth Prospects in Developing Countries
5.2.3.2 Protein Therapy as an Alternative to Gene Therapy
5.2.3.3 Top-Selling Biologics Drugs Going Off-Patent in the Near Future
5.2.4 Challenges
5.2.4.1 Need for Qualified Researchers and Mandatory Training in Protein Engineering Increases Cost of Process
5.2.5 Winning Imperatives
5.2.5.1 Site-Directed Mutagenesis is A Breakthrough Technology Augmenting the Growth of the Protein Engineering Market

6 Industry Insights
6.1 Introduction
6.2 Supply Chain Analysis
6.2.1 Key Influencers
6.3 Porter’s Five Forces Analysis
6.3.1 Threat From New Entrants
6.3.2 Threat From Substitutes
6.3.3 Bargaining Power of Buyers
6.3.4 Bargaining Power of Suppliers
6.3.5 Intensity of Rivalry
6.5 Strategic Benchmarking
6.5.1 New Product Launches

7 Protein Engineering Market, By Product
7.1 Introduction
7.2 Instruments
7.3 Reagents
7.4 Services & Software

8 Protein Engineering Market, By Technology
8.1 Introduction
8.2 Rational Protein Design
8.2 Irrational Protein Design
9 Protein Engineering Market, By Protein Type
9.1 Introduction
9.2 Monoclonal Antibodies
9.3 Insulin
9.4 Erythropoietin
9.5 Interferon
9.6 Colony Stimulating Factor
9.7 Growth Hormones
9.8 Coagulation Factor
9.9 Vaccines
9.10 Others

10 Protein Engineering Market, By End User
10.1 Introduction
10.2 Academic Research Institutes
10.3 Pharmaceutical & Biotechnology Companies
10.4 Contract Research Organizations

11 Geographic Analysis
11.1 Introduction
11.2 North America
11.2.1 U.S.
11.2.2 Canada
11.3 Europe
11.4 Asia-Pacific
11.4.1 China
11.4.2 India
11.4.3 Japan
11.4.4 Rest of Asia (ROA)
11.5 Rest of the World (ROW)

12 Competitive Landscape
12.1 Overview
12.2 Battle for Market Share: New Product Launches Was the Key Strategy
12.3 New Product Launches
12.4 Agreements, Partnerships, and Collaborations
12.5 Expansions
12.6 Acquisitions

13 Company Profile
12.1 Agilent Technologies, Inc
12.1.1 Business Overview
12.1.2 Product Portfolio
12.1.3 Key Strategy
12.1.4 Recent Developments
12.2 Bio-Rad Laboratories, Inc
12.2.1 Business Overview
12.2.2 Product Portfolio
12.2.3 Key Strategy
12.2.4 Recent Developments
12.3 Bruker Corporation
12.3.1 Business Overview
12.3.2 Product Portfolio
12.3.3 Key Strategy
12.3.4 Recent Developments
12.3.5 SWOT Analysis
12.3.6 MNM View
12.4 Danaher Corporation
12.4.1 Business Overview
12.4.2 Products & Services
12.4.3 Key Strategy
12.4.4 Recent Developments
12.5 General Electric
12.5.1 Business Overview
12.5.2 Product Portfolio
12.5.3 Key Strategy
12.5.4 Recent Developments
12.6 Perkinelmer, Inc
12.6.1 Products & Services
12.6.2 Key Strategy
12.6.3 Recent Developments
12.7 Genscripts Usa, Inc.
12.7.1 Business Overview
12.7.2 Key Strategy
12.7.3 Recent Developments
12.8 Sigma-Aldrich Corporation
12.8.1 Business Overview
12.8.2 Product Portfolio
12.8.3 Key Strategy
12.8.4 Recent Developments
12.9 Thermo Fisher Scientific
12.9.1 Business Overview
12.9.2 Product Portfolio
12.9.3 Key Strategy
12.9.4 Recent Developments
12.10 Waters Corporation
12.10.1 Business Overview
12.10.2 Product Portfolio
12.10.3 Key Strategy
12.10.4 Recent Developments

14 Appendix
13.1 Insights of Industry Experts
13.2 Discussion Guide
13.3 Introducing RT: Real-Time Market Intelligence
13.4 Available Customizations
13.5 Related Reports

List of Tables (100 Tables)
Table 1 Protein Engineering Market Size, By Technology, 2013–2020 ($Million)
Table 2 Rational Protein Design Market Size, By Region, 2013–2020 ($Million)
Table 3 North America: Rational Protein Design Market Size, By Country, 2013–2020 ($Million)
Table 4 Asia: Rational Protein Design Market Size, By Country, 2013–2020 ($Million)
Table 5 Irrational Protein Design Market Size, By Region, 2013–2020 ($Million)
Table 6 North America: Irrational Protein Design Market Size, By Country, 2013–2020 ($Million)
Table 7 Asia: Irrational Protein Design Market Size, By Country/Region, 2013–2020 ($Million)
Table 8 Market Size, By Product, 2013–2020 ($Million)
Table 9 Market Size for Instruments, By Region, 2013–2020 ($Million)
Table 10 North America: Market Size for Instruments, By Country, 2013–2020 ($Million)
Table 11 Asia: Market Size for Instruments, By Country/Region, 2013–2020 ($Million)
Table 12 Market Size for Reagents, By Region, 2013–2020 ($Million)
Table 13 North America: Market Size for Reagents, By Country, 2013–2020 ($Million)
Table 14 Asia: Market Size for Reagents, By Country/Region, 2013–2020 ($Million)
Table 15 Market Size for Services and Software, By Region, 2013–2020 ($Million)
Table 16 North America: Market Size for Services and Software, By Country, 2013–2020 ($Million)
Table 17 Asia: Market Size for Services and Software, By Country/Region, 2013–2020 ($Million)
Table 18 Market Size, By Protein Type, 2013–2020 ($Million)
Table 19 Monoclonal Antibodies Market Size, By Region, 2013–2020 ($Million)
Table 20 North America: Monoclonal Antibodies Market Size, By Country, 2013–2020 ($Million)
Table 21 Asia: Monoclonal Antibodies Market Size, By Country, 2013–2020 ($Million)
Table 22 Insulin Market Size, By Region, 2013–2020 ($Million)
Table 23 North America: Insulin Market Size, By Country, 2013–2020 ($Million)
Table 24 Asia: Insulin Market Size, By Country, 2013–2020 ($Million)
Table 26 Erythropoietin Market Size, By Region, 2013–2020 ($Million)
Table 27 Asia: Erythropoietin Market Size, By Country, 2013–2020 ($Million)
Table 28 Interferons Market Size, By Region, 2013–2020 ($Million)
Table 29 North America: Interferons Market Size, By Country, 2013–2020 ($Million)
Table 30 Asia: Interferons Market Size, By Country, 2013–2020 ($Million)
Table 31 Colony Stimulating Factors Market Size, By Region, 2013–2020 ($Million)
Table 32 North America: Colony Stimulating Factors Market Size, By Country, 2013–2020 ($Million)
Table 33 Asia: Colony Stimulating Factor Market Size, By Country, 2013–2020 ($Million)
Table 34 Growth Hormones Market Size, By Region, 2013–2020 ($Million)
Table 35 North America: Growth Hormones Market Size, By Country, 2013–2020 ($Million)
Table 36 Asia: Growth Hormones Market Size, By Country, 2013–2020 ($Million)
Table 37 Coagulation Factors Market Size, By Region, 2013–2020 ($Million)
Table 38 North America: Coagulation Factors Market Size, By Country, 2013–2020 ($Million)
Table 39 Asia: Coagulation Factors Market Size, By Country, 2013–2020 ($Million)
Table 40 Vaccines Market Size, By Region, 2013–2020 ($Million)
Table 41 North America: Vaccines Market Size, By Country, 2013–2020 ($Million)
Table 42 Asia: Vaccines Market Size, By Country, 2013–2020 ($Million)
Table 43 Other Proteins Market Size, By Region, 2013–2020 ($Million)
Table 44 North America: Other Proteins Market Size, By Country, 2013–2020 ($Million)
Table 45 Asia: Other Proteins Market Size, By Country, 2013–2020 ($Million)
Table 46 Global Market Size, By End User, 2013–2020 ($Million)
Table 47 Market Size for Academic Research Institutes, By Region, 2013–2020 ($Million)
Table 48 North America: Market Size for Academic Research Institutes, By Country, 2013–2020 ($Million)
Table 49 Asia: Market Size for Academic Research Institutes, By Country/Region, 2013–2020 ($Million)
Table 50 Market Size for Pharmaceutical and Biotechnology Companies, By Region, 2013–2020 ($Million)
Table 51 North America: Market Size for Pharmaceutical and Biotechnology Companies, By Country, 2013–2020 ($Million)
Table 52 Asian Market Size for Pharmaceutical and Biotechnology Companies, By Country/Region, 2013–2020 ($Million)
Table 53 Market Size for CROS, By Region, 2013–2020 ($Million)
Table 54 North America: Market Size for CROS, By Country, 2013–2020 ($Million)
Table 55 Asia: Market Size for Pharmaceutical and Biotechnology Companies, By Country/Region, 2013–2020 ($Million)
Table 56 Protein Engineering Market Size, By Region, 2013–2020 ($Million)
Table 57 North America: Market Size, By Country, 2013–2020 ($Million)
Table 58 North America: Market Size, By Product, 2013–2020 ($Million)
Table 59 North America: Market Size, By Technology, 2013–2020 ($Million)
Table 60 North America: Market Size, By Protein Type, 2013–2020 ($Million)
Table 61 North America: Market Size, By End User, 2013–2020
Table 62 U.S.: Market Size, By Product, 2013–2020 ($Million)
Table 63 U.S.: Market Size, By Technology, 2013–2020 ($Million)
Table 64 U.S.: Market Size, By Protein Type, 2013–2020 ($Million)
Table 65 U.S.: Market Size, By End User, 2013–2020 ($Million)
Table 66 Canada: Market Size, By Product, 2013–2020 ($Million)
Table 67 Canada: Market Size, By Technology, 2013–2020 ($Million)
Table 68 Canada: Market Size, By Protein Type, 2013–2020 ($Million)
Table 69 Canada: Market Size, By End User, 2013–2020 ($Million)
Table 70 Europe: Market Size, By Product, 2013–2020 ($Million)
Table 71 Europe: Market Size, By Technology, 2013–2020 ($Million)
Table 72 Europe: Market Size, By Protein Type, 2013–2020 ($Million)
Table 73 Europe: Market Size, By End User, 2013–2020 ($Million)
Table 74 Asia: Protein Engineering Market Size, By Country, 2013–2020 ($Million)
Table 75 Asia: Protein Engineering Market Size, By Product, 2013–2020 ($Million)
Table 76 Asia: Market Size, By Technology, 2013–2020 ($Million)
Table 77 Asia: Market Size, By Protein Type, 2013–2020 ($Million)
Table 78 Asia: Protein Engineering Market Size, By End User, 2013–2020
Table 79 China: Protein Engineering Market Size, By Product, 2013–2020 ($Million)
Table 80 China: Market Size, By Technology, 2013–2020 ($Million)
Table 81 China: Market Size, By Protein Type, 2013–2020 ($Million)
Table 82 China: Protein Engineering Market Size, By End User, 2013–2020 ($Million)
Table 83 India: Market Size, By Product, 2013–2020 ($Million)
Table 84 India: Market Size, By Technology, 2013–2020 ($Million)
Table 85 India: Market Size, By Protein Type, 2013–2020 ($Million)
Table 86 Japan: Protein Engineering Market Size, By Product, 2013–2020 ($Million)
Table 87 Japan: Protein Engineering Market Size, By Technology, 2013–2020 ($Million)
Table 88 Japan: Protein Engineering Market Size, By Protein Type, 2013–2020 ($Million)
Table 89 Japan: Protein Engineering Market Size, By End User, 2013–2020 ($Million)
Table 90 ROA: Protein Engineering Market Size, By Product, 2013–2020 ($Million)
Table 91 ROA: Market Size, By Technology, 2013–2020 ($Million)
Table 92 ROA: Market Size, By Protein Type, 2013–2020 ($Million)
Table 93 ROW: Protein Engineering Market Size, By Product, 2013–2020 ($Million)
Table 94 ROW: Protein Engineering Market Size, By Technology, 2013–2020 ($Million)
Table 95 ROW: Protein Engineering Market Size, By Protein Type, 2013–2020 ($Million)
Table 96 ROW: Market Size, By End User, 2013–2020 ($Million)
Table 97 New Product Launches, 2012–2015
Table 98 Agreements, Partnerships, and Collaborations, 2011–2015
Table 99 Expansions 2012-2015
Table 100 Acquisitions, 2012–2015

List of Figures (53 Figures)

Figure 1 Research Methodology
Figure 2 Market Size Estimation
Figure 3 Break Down of Primary Interviews: By Company Type, Designation, and Region
Figure 4 Market Data Triangulation Methodology
Figure 5 Protein Engineering Market Snapshot (2014 vs. 2020)
Figure 6 Pharmaceutical and Biotechnology Companies Will Continue to Dominate the Protein Engineering Market During the Forecast Period
Figure 7 Protein Engineering Technology Market Snapshot (2014 vs. 2019): Rational Design to Witness Highest Growth Rate in the Next Five Years
Figure 8 Asia Expected to Be the Fastest-Growing Market During the Forecast Period
Figure 9 New Product Launches Was the Major Strategy Adopted By Industry Players
Figure 10 Market Growth Will Be Driven By Increasing Adoption of Biologics
Figure 11 Pharmaceutical and Biotechnology Companies Accounted for the Largest Share in 2014
Figure 12 Rational Protein Design is Expected to Dominate the Technology Market During the Forecast Period
Figure 13 Software and Services Segment Holds Lucrative Growth Opportunities
Figure 14 Asia to Witness the Highest Grow Rate From 2015 to 2020
Figure 15 Asia Holds Lucrative Growth Opportunities
Figure 16 Protein Engineering Market: Technological Evolution
Figure 17 Protein Engineering Market: Drivers, Restraints, Opportunities, and Challenges
Figure 18 Direct Distribution—Strategy Preferred By Prominent Companies
Figure 19 Requirement of High Capital Investment to Restrict Entry of New Players
Figure 20 Market Leaders Adopted the Organic Growth Strategy of New Product Launches
Figure 21 Instruments Expected to Be the Largest Segment in Forecast Period
Figure 22 North America Will Continue to Lead Protein Engineering Instruments Market for the Forecast Period
Figure 23 Asian Reagents Segment to Show Fastest Growth
Figure 24 Snapshot: Rational and Irrational Protein Design
Figure 25 Rational Protein Design Segment Will Continue to Dominate the Market in the Forecast Period
Figure 26 North America Accounted for the Largest Share in the Rational Protein Design Market
Figure 27 Monoclonal Antibodies Will Continue to Dominate the Market in the Forecast Period
Figure 28 North America Accounted for the Largest Share in the Insulin Market
Figure 30 North America Accounted for the Largest Share of the Erythropoietin Market in 2014
Figure 31 Asia is the Fastest Growing Segment of the CSF Market
Figure 32 Asia is the Fastest Growing Market for the Forecast Period
Figure 33 North America Commanded the Largest Share of Others Market in 2014
Figure 34 Broad End-User Base of Protein Engineering
Figure 35 North America Dominates the Protein Engineering Market for Academic Research Institutes
Figure 36 Asia Will Be the Fastest-Growing Market By 2020
Figure 37 Asia An Attractive Destination for Protein Engineering
Figure 38 Government Funding and Technology Advancements To drive Demand for Protein Engineering
Figure 39 Rational Design Segment Will Continue to Lead the Protein Engineering Technologies Market in the U.S.
Figure 40 Rational Protein Design Technology Segment Expected to Grow at the Highest Rate From 2015 to 2020
Ordering:  

Order Online - [http://www.researchandmarkets.com/reports/3146013/](http://www.researchandmarkets.com/reports/3146013/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Protein Engineering Market by Technology, Product, Protein Type, End User - Global Forecast to 2020
Web Address: http://www.researchandmarkets.com/reports/3146013/
Office Code: SCPLDJ8

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electronic (PDF) - Single User:</td>
<td>USD 5650</td>
</tr>
<tr>
<td></td>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 6650</td>
</tr>
<tr>
<td></td>
<td>Electronic (PDF) - Site License:</td>
<td>USD 8150</td>
</tr>
<tr>
<td></td>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title:  
First Name:  
Email Address: *  
Job Title:  
Organisation:  
Address:  
City:  
Postal / Zip Code:  
Country:  
Phone Number:  
Fax Number:  

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World