

Proteomics Market by Product (Spectroscopy, Chromatography, Electrophoresis, X-Ray Crystallography), Reagent, Service, (Core Proteomics, Bioinformatics), Application (Diagnostic, Drug Discovery), End User (Hospital, Labs, Biopharma) - Global Forecasts to 2028

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Abstracts

The global proteomics market size is projected to reach USD 72.9 billion by 2028 from 36.8 billion in 2023, at a CAGR of 14.6% during the forecast period. Factors such as increasing government funding for R&D projects to develop new therapeutics and protein-based drugs and the growing demand for personalized and efficient therapeutics, support the demand for proteomics products & services, and drive the market growth at a faster pace.

“The spectroscopy segment is likely to grow at the highest CAGR during the forecast period of 2023-2028.”

On the basis of instrumentation technologies, the proteomics market is broadly segmented into spectroscopy, chromatography, electrophoresis, protein microarrays, X-ray crystallography, surface plasmon resonance, protein fractionation, and other technologies. The spectroscopy segment is projected to grow at the highest CAGR during the forecast period. The growth is attributed to the factor that the technique is widely employed in protein analysis to elucidate the protein structure (size, shape, secondary, or tertiary conformations), quantification, and interactions with molecules such as ligands, solutes, or other proteins.

“The biochips sub-segment is likely to grow at the highest CAGR during the forecast

period of 2023-2028.”

On the basis of instrumentation technology protein microarray, the proteomics market is broadly segmented into biochips and microarray instruments. The biochips segment is projected to grow at the highest CAGR during the forecast period. The growth is attributed to the several advantages in proteomics research, including high-throughput analysis, multiplexing, sensitivity, specificity, reduced sample requirements, and automation.

“The pharmaceutical & biotechnological companies segment is likely to grow at the highest CAGR during the forecast period of 2023-2028.”

Based on end users, the proteomics market is segmented into hospitals, clinical laboratories, pharmaceutical companies, academic research laboratories, and other end users like CDMOs, and CROs. The pharmaceutical & biotechnological companies segment held a dominant share of the proteomics market, in 2022. The large share of this segment is attributed to the growing focus of pharma giants on core activities like increasing R&D for the discovery & development of new molecules. This is one of the major factors anticipated to project market growth.

“Asia Pacific region is likely to grow at a faster pace.”

The proteomics market is divided into North America, Europe, the Asia Pacific, Latin America, and the Middle East & Africa. In 2022, North America accounted for the dominant share of the proteomics market. The dominance of the region is attributable to various factors such as the presence of leading players in the region coupled with the ongoing research activities of developing new targeted therapies. Asia Pacific region is likely to grow at a faster pace owing to various factors such as the growing awareness of personalized therapeutics, rising government initiatives for generic medicines in the region, and the emergence of new market players in the proteomics market.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70%, and Demand Side - 30%

By Designation (Supply Side): Managers - 45%, CXOs & Directors - 30%, Executives- 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -20%, Latin America

-10%, and Middle East and Africa -5%

Lists of Companies Profiled in the Report:

Thermo Fisher Scientific, Inc. (US)

Agilent Technologies, Inc. (US)

Merck KGaA (Germany)

Danaher Corporation (US)

Waters Corporation (US)

Bio-Rad Laboratories, Inc. (US)

Bruker Corporation (US)

PerkinElmer Inc. (US)

Shimadzu Corporation (Japan)

Illumina, Inc. (US)

Promega Corporation (US)

Eurofins Scientific (Luxembourg)

QIAGEN N.V. (Germany)

Charles River Laboratories (US)

Protagene Protein Services (Germany)

Creative Proteomics (US)

HORIBA Corporation (Japan)

Sengenics (Singapore)

Biomax Informatics AG (Germany)

WuXi NextCode (China)

FIOS Genomics (UK)

Genewiz (US)

Medgenome Labs (India)

Biognosys AG (Switzerland)

Macrogen Inc. (South Korea)

Research Coverage:

This report provides a detailed picture of the proteomics market. It aims at estimating the size and future growth potential of the market across different segments, such as instrumentation technologies, reagents, software & services, application, end user, and regions. The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall proteomics market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand for personalized medicines for

clinical practices, Rising incidences of chronic diseases among geriatric population, Increased investments in research and greater adoption of proteomics in drug discovery, Technological advancements in proteomics), restraints (High costs of proteomics instruments and technologies, Lack of standardization in proteomics workflow among research groups), opportunities (High growth opportunities for proteomics research in emerging countries, Growing prominence of nano proteomics in biological processes), and challenges (Low biomarker discovery to approval ratio in proteomics research, Lack of data management/handling in proteomics research) influencing the growth of proteomics market.

Product & Service Development/Innovation: Detailed insights on newly launched products, and technological assessment of the proteomics market.

Market Development: Comprehensive information about lucrative markets – the report analyses the proteomics market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the proteomics market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product & service offerings of leading players like Thermo Fisher Scientific, Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), Agilent Technologies, Inc. (US), and Waters Corporation (US) and among others in the proteomics market.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION AND SCOPE
 - 1.2.1 INCLUSIONS AND EXCLUSIONS
 - 1.2.2 MARKETS COVERED
 - 1.2.3 YEARS CONSIDERED
- 1.3 CURRENCY CONSIDERED
- 1.4 STAKEHOLDERS
- 1.5 RESEARCH LIMITATIONS
- 1.6 SUMMARY OF CHANGES
- 1.7 RECESSION IMPACT

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - FIGURE 2 PROTEOMICS MARKET: BREAKDOWN OF PRIMARIES
- 2.2 MARKET SIZE ESTIMATION
 - FIGURE 3 PROTEOMICS MARKET SIZE ESTIMATION (SUPPLY-SIDE ANALYSIS), 2022
 - FIGURE 4 MARKET SIZE ESTIMATION: APPROACH 1 (REVENUE SHARE ANALYSIS), 2022
 - FIGURE 5 ILLUSTRATIVE EXAMPLE OF THERMO FISHER SCIENTIFIC INC.: REVENUE SHARE ANALYSIS, 2022
 - 2.2.1 INSIGHTS FROM PRIMARIES
 - FIGURE 6 MARKET VALIDATION FROM PRIMARY EXPERTS
 - 2.2.2 SEGMENT ASSESSMENT (BY PRODUCT, SOFTWARE & SERVICE, AND END USER)
 - FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
- 2.3 GROWTH RATE ASSUMPTIONS
 - FIGURE 8 PROTEOMICS MARKET: CAGR PROJECTIONS, 2023–2028
 - FIGURE 9 PROTEOMICS MARKET: GROWTH ANALYSIS OF DRIVERS, RESTRAINTS, CHALLENGES, AND OPPORTUNITIES
- 2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 10 DATA TRIANGULATION METHODOLOGY

2.5 STUDY ASSUMPTIONS

2.6 RISK ANALYSIS

2.7 IMPACT OF ECONOMIC RECESSION ON PROTEOMICS MARKET

TABLE 1 GLOBAL INFLATION RATE PROJECTIONS, 2024–2027 (% GROWTH)

TABLE 2 US HEALTH EXPENDITURE, 2019–2027 (USD MILLION)

TABLE 3 US HEALTH EXPENDITURE, 2023–2027 (USD MILLION)

3 EXECUTIVE SUMMARY

FIGURE 11 PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2023 VS. 2028 (USD MILLION)

FIGURE 12 PROTEOMICS MARKET, BY REAGENT, 2023 VS. 2028 (USD MILLION)

FIGURE 13 PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2023 VS. 2028 (USD MILLION)

FIGURE 14 PROTEOMICS MARKET, BY APPLICATION, 2023 VS. 2028 (USD MILLION)

FIGURE 15 PROTEOMICS MARKET, BY END USER, 2023 VS. 2028 (USD MILLION)

FIGURE 16 GEOGRAPHICAL SNAPSHOT OF PROTEOMICS MARKET

4 PREMIUM INSIGHTS

4.1 OVERVIEW OF PROTEOMICS MARKET

FIGURE 17 RISING INVESTMENTS IN PHARMACEUTICAL R&D TO DRIVE MARKET

4.2 NORTH AMERICA: PROTEOMICS MARKET SHARE, BY APPLICATION AND COUNTRY (2022)

FIGURE 18 CLINICAL DIAGNOSTICS ACCOUNTED FOR LARGEST SHARE OF NORTH AMERICAN PROTEOMICS MARKET IN 2022

4.3 ELECTROPHORESIS MARKET SHARE, BY TYPE, 2023 VS. 2028 (USD MILLION)

FIGURE 19 GEL ELECTROPHORESIS TO DOMINATE MARKET IN 2028

4.4 PROTEOMICS MARKET SHARE, BY END USER (2022)

FIGURE 20 PHARMACEUTICAL COMPANIES ACCOUNTED FOR LARGEST MARKET SHARE IN 2022

4.5 PROTEOMICS MARKET: GEOGRAPHICAL GROWTH OPPORTUNITIES

FIGURE 21 ASIA PACIFIC TO REGISTER HIGHEST GROWTH IN PROTEOMICS MARKET DURING STUDY PERIOD

5 MARKET OVERVIEW

Proteomics Market by Product (Spectroscopy, Chromatography, Electrophoresis, X-Ray Crystallography), Reagent,...

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 22 PROTEOMICS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

TABLE 4 PROTEOMICS MARKET: IMPACT ANALYSIS

5.2.1 DRIVERS

5.2.1.1 Increasing demand for personalized medicines for clinical practices

FIGURE 23 PERSONALIZED MEDICINES APPROVED BY FDA, 2015–2022

5.2.1.2 Rising incidences of chronic diseases among geriatric population

5.2.1.3 Increased investments in research and greater adoption of proteomics in drug discovery

FIGURE 24 GLOBAL SPENDING ON PHARMACEUTICAL R&D, 2015–2028 (USD BILLION)

5.2.1.4 Technological advancements in proteomics

5.2.2 RESTRAINTS

5.2.2.1 High costs of proteomics instruments and technologies

5.2.2.2 Lack of standardization in proteomics workflow among research groups

5.2.3 OPPORTUNITIES

5.2.3.1 High growth opportunities for proteomics research in emerging countries

5.2.3.2 Growing prominence of nano proteomics in biological processes

5.2.4 CHALLENGES

5.2.4.1 Low biomarker discovery to approval ratio in proteomics research

5.2.4.2 Lack of data management/handling in proteomics research

5.3 VALUE CHAIN ANALYSIS

FIGURE 25 VALUE CHAIN ANALYSIS: MANUFACTURING AND DISTRIBUTION PHASES PROVIDE MAXIMUM VALUE

5.4 SUPPLY CHAIN ANALYSIS

FIGURE 26 PROTEOMICS MARKET: SUPPLY CHAIN ANALYSIS

5.5 ECOSYSTEM ANALYSIS

FIGURE 27 ECOSYSTEM ANALYSIS: PROTEOMICS MARKET

TABLE 5 PROTEOMICS MARKET: ROLE IN ECOSYSTEM

5.6 PORTER'S FIVE FORCES ANALYSIS

TABLE 6 PROTEOMICS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.6.1 THREAT OF NEW ENTRANTS

5.6.2 THREAT OF SUBSTITUTES

5.6.3 BARGAINING POWER OF SUPPLIERS

5.6.4 BARGAINING POWER OF BUYERS

5.6.5 INTENSITY OF COMPETITIVE RIVALRY

5.7 PATENT ANALYSIS

5.8 PRICING ANALYSIS

TABLE 7 AVERAGE SELLING PRICE OF PROTEOMICS PRODUCTS (2022)

TABLE 8 PERKINELMER: SELLING PRICE OF VARIOUS PRODUCTS/SERVICES

TABLE 9 MERCK: SELLING PRICE OF VARIOUS PRODUCTS/SERVICES

5.9 TECHNOLOGY ANALYSIS

TABLE 10 COMPARISON OF MODERN PROTEOMICS ANALYSIS METHODS

TABLE 11 COMMONLY USED BIOINFORMATICS TOOLS IN PROTEOMICS

TABLE 12 TECHNOLOGIES LAUNCHED RECENTLY IN PROTEOMICS

5.10 REGULATORY ANALYSIS

5.10.1 REGULATIONS FOR PRODUCTS DEVELOPED USING PROTEOMICS TECHNIQUES

TABLE 13 KEY REGULATORY GUIDELINES FOR PROTEOMICS PRODUCTS

5.10.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.11 KEY CONFERENCES AND EVENTS IN 2023

TABLE 17 PROTEOMICS MARKET: DETAILED LIST OF CONFERENCES AND EVENTS IN 2023

5.12 KEY STAKEHOLDERS AND BUYING CRITERIA

5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 28 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR APPLICATIONS

TABLE 18 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR APPLICATIONS

5.12.2 BUYING CRITERIA

FIGURE 29 KEY BUYING CRITERIA FOR END USERS

5.13 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.14 TRADE ANALYSIS

5.14.1 TRADE ANALYSIS FOR ELECTROPHORESIS AND CHROMATOGRAPHY INSTRUMENTS

TABLE 19 IMPORT DATA FOR ELECTROPHORESIS AND CHROMATOGRAPHY INSTRUMENTS, BY COUNTRY, 2017–2021 (USD MILLION)

5.14.2 TRADE ANALYSIS FOR DIAGNOSTICS AND LABORATORY REAGENTS

TABLE 20 IMPORT DATA FOR DIAGNOSTICS AND CLINICAL REAGENTS, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 21 EXPORT DATA FOR DIAGNOSTICS AND CLINICAL REAGENTS, BY COUNTRY, 2017–2021 (TONS)

5.14.3 TRADE ANALYSIS FOR IMMUNOASSAYS

TABLE 22 IMPORT DATA FOR HS CODE 902750, BY COUNTRY, 2017–2021 (USD MILLION)

6 PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY

6.1 INTRODUCTION

6.1.1 PRICING ANALYSIS

TABLE 23 AVERAGE SELLING PRICE OF PRODUCTS AND SERVICES, 2022 (USD)

TABLE 24 PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

6.2 SPECTROSCOPY

TABLE 25 PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 26 PROTEOMICS MARKET FOR SPECTROSCOPY, BY REGION, 2021–2028 (USD MILLION)

TABLE 27 NORTH AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 28 EUROPE: PROTEOMICS MARKET FOR SPECTROSCOPY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 29 ASIA PACIFIC: PROTEOMICS MARKET FOR SPECTROSCOPY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 30 LATIN AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY COUNTRY, 2021–2028 (USD MILLION)

6.2.1 MASS SPECTROSCOPY

6.2.1.1 High specificity of mass spectroscopy to boost market

TABLE 31 MASS SPECTROSCOPY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 32 NORTH AMERICA: MASS SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 33 EUROPE: MASS SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 34 ASIA PACIFIC: MASS SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 35 LATIN AMERICA: MASS SPECTROSCOPY MARKET, BY COUNTRY,

2021–2028 (USD MILLION)

6.2.2 NMR SPECTROSCOPY

6.2.2.1 NMR experiments to evaluate physical, chemical, electronic, and structural information of proteins

TABLE 36 NMR SPECTROSCOPY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 37 NORTH AMERICA: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 38 EUROPE: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 39 ASIA PACIFIC: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 40 LATIN AMERICA: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.2.3 CD SPECTROSCOPY

6.2.3.1 CD spectroscopy to examine changes in secondary structures of protein in response to environmental conditions

TABLE 41 CD SPECTROSCOPY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 42 NORTH AMERICA: CD SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 43 EUROPE: CD SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 44 ASIA PACIFIC: CD SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 45 LATIN AMERICA: CD SPECTROSCOPY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3 CHROMATOGRAPHY

TABLE 46 PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 47 PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY REGION, 2021–2028 (USD MILLION)

TABLE 48 NORTH AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 49 EUROPE: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 50 ASIA PACIFIC: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 51 LATIN AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.1 HPLC

6.3.1.1 Growing biopharmaceutical industry and increasing investments in life science research

TABLE 52 HPLC MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 53 NORTH AMERICA: HPLC MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 54 EUROPE: HPLC MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 55 ASIA PACIFIC: HPLC MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 56 LATIN AMERICA: HPLC MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.2 ION CHROMATOGRAPHY

6.3.2.1 Ion chromatography to be most significant chromatographic technique for separation and purification of proteins

TABLE 57 ION CHROMATOGRAPHY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 58 NORTH AMERICA: ION CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 59 EUROPE: ION CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 60 ASIA PACIFIC: ION CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 61 LATIN AMERICA: ION CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.3 AFFINITY CHROMATOGRAPHY

6.3.3.1 Affinity chromatography to quantify protein expression using isotope-coded affinity tags

TABLE 62 AFFINITY CHROMATOGRAPHY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 63 NORTH AMERICA: AFFINITY CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 64 EUROPE: AFFINITY CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 65 ASIA PACIFIC: AFFINITY CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 66 LATIN AMERICA: AFFINITY CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.3.4 SUPERCRITICAL FLUID CHROMATOGRAPHY

6.3.4.1 Supercritical fluid chromatography to separate complex protein mixtures with high efficiency and speed

TABLE 67 SUPERCRITICAL FLUID CHROMATOGRAPHY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 68 NORTH AMERICA: SUPERCRITICAL FLUID CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 69 EUROPE: SUPERCRITICAL FLUID CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 70 ASIA PACIFIC: SUPERCRITICAL FLUID CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 71 LATIN AMERICA: SUPERCRITICAL FLUID CHROMATOGRAPHY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.4 ELECTROPHORESIS

TABLE 72 PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 73 PROTEOMICS MARKET FOR ELECTROPHORESIS, BY REGION, 2021–2028 (USD MILLION)

TABLE 74 NORTH AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 75 EUROPE: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 76 ASIA PACIFIC: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 77 LATIN AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY COUNTRY, 2021–2028 (USD MILLION)

6.4.1 GEL ELECTROPHORESIS

6.4.1.1 Increasing demand for gel electrophoresis in proteomics research and personalized medicine

TABLE 78 GEL ELECTROPHORESIS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 79 NORTH AMERICA: GEL ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 80 EUROPE: GEL ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 81 ASIA PACIFIC: GEL ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 82 LATIN AMERICA: GEL ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.4.2 CAPILLARY ELECTROPHORESIS

6.4.2.1 Rise in applications of capillary electrophoresis in therapeutics and drug discovery

TABLE 83 CAPILLARY ELECTROPHORESIS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 84 NORTH AMERICA: CAPILLARY ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 85 EUROPE: CAPILLARY ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 86 ASIA PACIFIC: CAPILLARY ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 87 LATIN AMERICA: CAPILLARY ELECTROPHORESIS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5 PROTEIN MICROARRAYS

TABLE 88 PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 89 PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY REGION, 2021–2028 (USD MILLION)

TABLE 90 NORTH AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 91 EUROPE: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 92 ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 93 LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.1 BIOCHIPS

TABLE 94 BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 95 BIOCHIPS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 96 NORTH AMERICA: BIOCHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 97 EUROPE: BIOCHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 98 ASIA PACIFIC: BIOCHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 99 LATIN AMERICA: BIOCHIPS MARKET, BY REGION, 2021–2028 (USD MILLION)

6.5.1.1 Lab-on-chips

6.5.1.1.1 Rising applications of lab-on-chips in microfabrication and nanotechnology development

TABLE 100 LAB-ON-CHIPS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 101 NORTH AMERICA: LAB-ON-CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 102 EUROPE: LAB-ON-CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 103 ASIA PACIFIC: LAB-ON-CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 104 LATIN AMERICA: LAB-ON-CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.1.2 Protein chips

6.5.1.2.1 Competitive advantage over conventional protein analysis tools

TABLE 105 PROTEIN CHIPS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 106 NORTH AMERICA: PROTEIN CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 107 EUROPE: PROTEIN CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 108 ASIA PACIFIC: PROTEIN CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 109 LATIN AMERICA: PROTEIN CHIPS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.2 MICROARRAY INSTRUMENTS

TABLE 110 MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 111 MICROARRAY INSTRUMENTS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 112 NORTH AMERICA: MICROARRAY INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 113 EUROPE: MICROARRAY INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 114 ASIA PACIFIC: MICROARRAY INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 115 LATIN AMERICA: MICROARRAY INSTRUMENTS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.2.1 Integrated systems

6.5.2.1.1 Integrated systems to enable high-throughput and reproducible analysis of large numbers of proteins

TABLE 116 INTEGRATED SYSTEMS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 117 NORTH AMERICA: INTEGRATED SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 118 EUROPE: INTEGRATED SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 119 ASIA PACIFIC: INTEGRATED SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 120 LATIN AMERICA: INTEGRATED SYSTEMS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.2.2 Microarray scanners

6.5.2.2.1 Microarray scanners to provide high-quality analysis and cost efficiency

TABLE 121 MICROARRAY SCANNERS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 122 NORTH AMERICA: MICROARRAY SCANNERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 123 EUROPE: MICROARRAY SCANNERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 124 ASIA PACIFIC: MICROARRAY SCANNERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 125 LATIN AMERICA: MICROARRAY SCANNERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.5.2.3 Arrayers

6.5.2.3.1 Technological advancements to make microarray spotters ideal for large-scale arraying projects

TABLE 126 ARRAYERS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 127 NORTH AMERICA: ARRAYERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 128 EUROPE: ARRAYERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 129 ASIA PACIFIC: ARRAYERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 130 LATIN AMERICA: ARRAYERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

6.6 X-RAY CRYSTALLOGRAPHY

6.6.1 INCREASED NEED FOR HIGH-RESOLUTION INFORMATION ON PROTEIN STRUCTURES WITH X-RAY CRYSTALLOGRAPHY TO AID MARKET

TABLE 131 PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY, BY REGION, 2021–2028 (USD MILLION)

TABLE 132 NORTH AMERICA: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 133 EUROPE: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 134 ASIA PACIFIC: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 135 LATIN AMERICA: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY, BY COUNTRY, 2021–2028 (USD MILLION)

6.7 SURFACE PLASMON RESONANCE

6.7.1 ABILITY TO MEASURE BINDING AFFINITIES AND KINETICS OF COMPLEXES TO PROPEL MARKET

TABLE 136 PROTEOMICS MARKET FOR SURFACE PLASMON RESONANCE, BY REGION, 2021–2028 (USD MILLION)

TABLE 137 NORTH AMERICA: PROTEOMICS MARKET FOR SURFACE PLASMON RESONANCE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 138 EUROPE: PROTEOMICS MARKET FOR SURFACE PLASMON RESONANCE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 139 ASIA PACIFIC: PROTEOMICS MARKET FOR SURFACE PLASMON RESONANCE, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 140 LATIN AMERICA: PROTEOMICS MARKET FOR SURFACE PLASMON RESONANCE, BY COUNTRY, 2021–2028 (USD MILLION)

6.8 PROTEIN FRACTIONATION

6.8.1 PROTEIN FRACTIONATION TO ENABLE EFFECTIVE SEPARATION OF THOUSANDS OF PROTEINS IN COMPLEX MIXTURES

TABLE 141 PROTEOMICS MARKET FOR PROTEIN FRACTIONATION, BY REGION, 2021–2028 (USD MILLION)

TABLE 142 NORTH AMERICA: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 143 EUROPE: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 144 ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 145 LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION, BY COUNTRY, 2021–2028 (USD MILLION)

6.9 OTHER TECHNOLOGIES

TABLE 146 PROTEOMICS MARKET FOR OTHER TECHNOLOGIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 147 NORTH AMERICA: PROTEOMICS MARKET FOR OTHER TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 148 EUROPE: PROTEOMICS MARKET FOR OTHER TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 149 ASIA PACIFIC: PROTEOMICS MARKET FOR OTHER TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 150 LATIN AMERICA: PROTEOMICS MARKET FOR OTHER TECHNOLOGIES, BY COUNTRY, 2021–2028 (USD MILLION)

7 PROTEOMICS MARKET, BY REAGENT

7.1 INTRODUCTION

TABLE 151 PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

7.2 IMMUNOASSAY REAGENTS

7.2.1 IMMUNOASSAY REAGENTS TO DOMINATE PROTEOMICS MARKET DURING FORECAST PERIOD

TABLE 152 PROTEOMICS MARKET FOR IMMUNOASSAY REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 153 NORTH AMERICA: PROTEOMICS MARKET FOR IMMUNOASSAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 154 EUROPE: PROTEOMICS MARKET FOR IMMUNOASSAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 155 ASIA PACIFIC: PROTEOMICS MARKET FOR IMMUNOASSAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 156 LATIN AMERICA: PROTEOMICS MARKET FOR IMMUNOASSAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.3 SPECTROSCOPY REAGENTS

7.3.1 INCREASED ADOPTION OF MS-BASED APPROACHES IN PROTEOMICS TO DRIVE MARKET

TABLE 157 PROTEOMICS MARKET FOR SPECTROSCOPY REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 158 NORTH AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 159 EUROPE: PROTEOMICS MARKET FOR SPECTROSCOPY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 160 ASIA PACIFIC: PROTEOMICS MARKET FOR SPECTROSCOPY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 161 LATIN AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.4 CHROMATOGRAPHY REAGENTS

7.4.1 INCREASING DEMAND FOR PROTEIN PURIFICATION TO AID MARKET

TABLE 162 PROTEOMICS MARKET FOR CHROMATOGRAPHY REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 163 NORTH AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 164 EUROPE: PROTEOMICS MARKET FOR CHROMATOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 165 ASIA PACIFIC: PROTEOMICS MARKET FOR CHROMATOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 166 LATIN AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.5 PROTEIN MICROARRAY REAGENTS

7.5.1 INCREASED FOCUS ON ANALYZING PROTEIN INTERACTIONS TO INCREASE USE OF PROTEIN MICROARRAY REAGENTS

TABLE 167 PROTEOMICS MARKET FOR PROTEIN MICROARRAY REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 168 NORTH AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 169 EUROPE: PROTEOMICS MARKET FOR PROTEIN MICROARRAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 170 ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN MICROARRAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 171 LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.6 X-RAY CRYSTALLOGRAPHY REAGENTS

7.6.1 X-RAY CRYSTALLOGRAPHY TO BE ESSENTIAL IN PROTEIN STRUCTURE DETERMINATION

TABLE 172 PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 173 NORTH AMERICA: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 174 EUROPE: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 175 ASIA PACIFIC: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 176 LATIN AMERICA: PROTEOMICS MARKET FOR X-RAY CRYSTALLOGRAPHY REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.7 ELECTROPHORESIS REAGENTS

7.7.1 INCREASING DEMAND FOR 2D ELECTROPHORESIS TO PROPEL MARKET

TABLE 177 PROTEOMICS MARKET FOR ELECTROPHORESIS REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 178 NORTH AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 179 EUROPE: PROTEOMICS MARKET FOR ELECTROPHORESIS REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 180 ASIA PACIFIC: PROTEOMICS MARKET FOR ELECTROPHORESIS

REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 181 LATIN AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS

REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.8 PROTEIN FRACTIONATION REAGENTS

7.8.1 INCREASING NEED FOR PROTEIN SEPARATION FROM COMPLEX MIXTURES TO AUGMENT MARKET

TABLE 182 PROTEOMICS MARKET FOR PROTEIN FRACTIONATION REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 183 NORTH AMERICA: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 184 EUROPE: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 185 ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 186 LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN FRACTIONATION REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

7.9 OTHER REAGENTS

TABLE 187 PROTEOMICS MARKET FOR OTHER REAGENTS, BY REGION, 2021–2028 (USD MILLION)

TABLE 188 NORTH AMERICA: PROTEOMICS MARKET FOR OTHER REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 189 EUROPE: PROTEOMICS MARKET FOR OTHER REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 190 ASIA PACIFIC: PROTEOMICS MARKET FOR OTHER REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 191 LATIN AMERICA: PROTEOMICS MARKET FOR OTHER REAGENTS, BY COUNTRY, 2021–2028 (USD MILLION)

8 PROTEOMICS MARKET, BY SERVICE & SOFTWARE

8.1 INTRODUCTION

TABLE 192 PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

8.2 CORE PROTEOMICS SERVICES

TABLE 193 PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 194 PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY REGION, 2021–2028 (USD MILLION)

TABLE 195 NORTH AMERICA: PROTEOMICS MARKET FOR CORE PROTEOMICS

SERVICES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 196 EUROPE: PROTEOMICS MARKET FOR CORE PROTEOMICS

SERVICES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 197 ASIA PACIFIC: PROTEOMICS MARKET FOR CORE PROTEOMICS

SERVICES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 198 LATIN AMERICA: PROTEOMICS MARKET FOR CORE PROTEOMICS

SERVICES, BY COUNTRY, 2021–2028 (USD MILLION)

8.2.1 PROTEIN IDENTIFICATION SERVICES

8.2.1.1 Rising demand for molecular weight analysis to boost market growth

TABLE 199 PROTEIN IDENTIFICATION SERVICES MARKET, BY REGION,
2021–2028 (USD MILLION)

TABLE 200 NORTH AMERICA: PROTEIN IDENTIFICATION SERVICES MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 201 EUROPE: PROTEIN IDENTIFICATION SERVICES MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 202 ASIA PACIFIC: PROTEIN IDENTIFICATION SERVICES MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

TABLE 203 LATIN AMERICA: PROTEIN IDENTIFICATION SERVICES MARKET, BY
COUNTRY, 2021–2028 (USD MILLION)

8.2.2 PROTEIN CHARACTERIZATION SERVICES

8.2.2.1 Increased focus on study of complex protein structure, drug development, and
PTMs to drive segment

TABLE 204 PROTEIN CHARACTERIZATION SERVICES MARKET, BY REGION,
2021–2028 (USD MILLION)

TABLE 205 NORTH AMERICA: PROTEIN CHARACTERIZATION SERVICES
MARKET, BY COUNTRY 2021–2028 (USD MILLION)

TABLE 206 EUROPE: PROTEIN CHARACTERIZATION SERVICES MARKET, BY
COUNTRY 2021–2028 (USD MILLION)

TABLE 207 ASIA PACIFIC: PROTEIN CHARACTERIZATION SERVICES MARKET,
BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 208 LATIN AMERICA: PROTEIN CHARACTERIZATION SERVICES MARKET,
BY COUNTRY 2021–2028 (USD MILLION)

8.2.3 QUANTITATIVE PROTEOMICS SERVICES

8.2.3.1 Quantitative proteomics to be critical for understanding protein expression
and modifications

TABLE 209 QUANTITATIVE PROTEOMICS SERVICES MARKET, BY REGION,
2021–2028 (USD MILLION)

TABLE 210 NORTH AMERICA: QUANTITATIVE PROTEOMICS SERVICES MARKET,
BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 211 EUROPE: QUANTITATIVE PROTEOMICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 212 ASIA PACIFIC: QUANTITATIVE PROTEOMICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 213 LATIN AMERICA: QUANTITATIVE PROTEOMICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.2.4 PROTEIN PURIFICATION SERVICES

8.2.4.1 Protein purification services to improve overall proteome analysis

TABLE 214 PROTEIN PURIFICATION SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 215 NORTH AMERICA: PROTEIN PURIFICATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 216 EUROPE: PROTEIN PURIFICATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 217 ASIA PACIFIC: PROTEIN PURIFICATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 218 LATIN AMERICA: PROTEIN PURIFICATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.2.5 PROTEIN SEPARATION SERVICES

8.2.5.1 Protein separation services to characterize large-sized proteomes of different sizes

TABLE 219 PROTEIN SEPARATION SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 220 NORTH AMERICA: PROTEIN SEPARATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 221 EUROPE: PROTEIN SEPARATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 222 ASIA PACIFIC: PROTEIN SEPARATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 223 LATIN AMERICA: PROTEIN SEPARATION SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.2.6 PROTEIN SEQUENCING SERVICES

8.2.6.1 Identification and characterization of post-translational modifications to determine characterizations of proteins

TABLE 224 PROTEIN SEQUENCING SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 225 NORTH AMERICA: PROTEIN SEQUENCING SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 226 EUROPE: PROTEIN SEQUENCING SERVICES MARKET, BY COUNTRY,

2021–2028 (USD MILLION)

TABLE 227 ASIA PACIFIC: PROTEIN SEQUENCING SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 228 LATIN AMERICA: PROTEIN SEQUENCING SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.2.7 CUSTOM ASSAY SERVICES

8.2.7.1 Custom assays to improve validation or consistency of protein analysis procedures

TABLE 229 CUSTOM ASSAY SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 230 NORTH AMERICA: CUSTOM ASSAY SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 231 EUROPE: CUSTOM ASSAY SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 232 ASIA PACIFIC: CUSTOM ASSAY SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 233 LATIN AMERICA: CUSTOM ASSAY SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.3 BIOINFORMATICS SOFTWARE & SERVICES

TABLE 234 PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

8.3.1 BIOINFORMATICS SERVICES

8.3.1.1 Bioinformatics services to dominate proteomics market during study period
TABLE 235 BIOINFORMATICS SERVICES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 236 NORTH AMERICA: BIOINFORMATICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 237 EUROPE: BIOINFORMATICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 238 ASIA PACIFIC: BIOINFORMATICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 239 LATIN AMERICA: BIOINFORMATICS SERVICES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.3.2 BIOINFORMATICS TOOLS

8.3.2.1 Increased need for data management to drive segment
TABLE 240 BIOINFORMATICS TOOLS MARKET, BY REGION, 2021–2028 (USD MILLION)
TABLE 241 NORTH AMERICA: BIOINFORMATICS TOOLS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 242 EUROPE: BIOINFORMATICS TOOLS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 243 ASIA PACIFIC: BIOINFORMATICS TOOLS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 244 LATIN AMERICA: BIOINFORMATICS TOOLS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

8.3.3 BIOINFORMATICS DATABASES

8.3.3.1 Growing need to store proteomics data and integrate other omics databases to fuel market

TABLE 245 BIOINFORMATICS DATABASES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 246 NORTH AMERICA: BIOINFORMATICS DATABASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 247 EUROPE: BIOINFORMATICS DATABASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 248 ASIA PACIFIC: BIOINFORMATICS DATABASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 249 LATIN AMERICA: BIOINFORMATICS DATABASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9 PROTEOMICS MARKET, BY APPLICATION

9.1 INTRODUCTION

TABLE 250 PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

9.2 CLINICAL DIAGNOSTICS

TABLE 251 PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 252 PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY REGION, 2021–2028 (USD MILLION)

TABLE 253 NORTH AMERICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 254 EUROPE: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 255 ASIA PACIFIC: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 256 LATIN AMERICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.1 CANCER

9.2.1.1 Increasing investments in cancer research to drive market

TABLE 257 CANCER MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 258 NORTH AMERICA: CANCER MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 259 EUROPE: CANCER MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 260 ASIA PACIFIC: CANCER MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 261 LATIN AMERICA: CANCER MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.2 INFECTIOUS DISEASES

9.2.2.1 Growing prevalence of infectious diseases in emerging economies to propel market

TABLE 262 INFECTIOUS DISEASES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 263 NORTH AMERICA: INFECTIOUS DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 264 EUROPE: INFECTIOUS DISEASES MARKET, BY COUNTRY 2021–2028 (USD MILLION)

TABLE 265 ASIA PACIFIC: INFECTIOUS DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 266 LATIN AMERICA: INFECTIOUS DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.3 DIABETES

9.2.3.1 Rising investments in diabetes research to drive market growth

TABLE 267 DIABETES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 268 NORTH AMERICA: DIABETES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 269 EUROPE: DIABETES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 270 ASIA PACIFIC: DIABETES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 271 LATIN AMERICA: DIABETES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.4 NEUROLOGICAL DISORDERS

9.2.4.1 Increasing clinical trials and research in neurological disorders to fuel market

TABLE 272 NEUROLOGICAL DISORDERS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 273 NORTH AMERICA: NEUROLOGICAL DISORDERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 274 EUROPE: NEUROLOGICAL DISORDERS MARKET, BY COUNTRY,

2021–2028 (USD MILLION)

TABLE 275 ASIA PACIFIC: NEUROLOGICAL DISORDERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 276 LATIN AMERICA: NEUROLOGICAL DISORDERS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.5 AUTOIMMUNE DISEASES

9.2.5.1 Increasing demand for proteomics in diagnosis of autoimmune diseases to boost market

TABLE 277 AUTOIMMUNE DISEASES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 278 NORTH AMERICA: AUTOIMMUNE DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 279 EUROPE: AUTOIMMUNE DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 280 ASIA PACIFIC: AUTOIMMUNE DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 281 LATIN AMERICA: AUTOIMMUNE DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.6 CARDIOVASCULAR DISEASES

9.2.6.1 High burden of cardiovascular diseases globally to increase development of more reliable proteomics tools

TABLE 282 CARDIOVASCULAR DISEASES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 283 NORTH AMERICA: CARDIOVASCULAR DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 284 EUROPE: CARDIOVASCULAR DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 285 ASIA PACIFIC: CARDIOVASCULAR DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 286 LATIN AMERICA: CARDIOVASCULAR DISEASES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.2.7 OTHER CLINICAL DIAGNOSTIC APPLICATIONS

TABLE 287 OTHER CLINICAL DIAGNOSTIC APPLICATIONS MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 288 NORTH AMERICA: OTHER CLINICAL DIAGNOSTIC APPLICATIONS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 289 EUROPE: OTHER CLINICAL DIAGNOSTIC APPLICATIONS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 290 ASIA PACIFIC: OTHER CLINICAL DIAGNOSTIC APPLICATIONS

MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 291 LATIN AMERICA: OTHER CLINICAL DIAGNOSTIC APPLICATIONS

MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.3 DRUG DISCOVERY & DEVELOPMENT

TABLE 292 PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 293 PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY REGION, 2021–2028 (USD MILLION)

TABLE 294 NORTH AMERICA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 295 EUROPE: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 296 ASIA PACIFIC: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 297 LATIN AMERICA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2021–2028 (USD MILLION)

9.3.1 TARGET DISCOVERY

9.3.1.1 Increasing demand for personalized medicine to support market

TABLE 298 TARGET DISCOVERY MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 299 NORTH AMERICA: TARGET DISCOVERY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 300 EUROPE: TARGET DISCOVERY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 301 ASIA PACIFIC: TARGET DISCOVERY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 302 LATIN AMERICA: TARGET DISCOVERY MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.3.2 LEAD IDENTIFICATION

9.3.2.1 Lead identification to be most revenue-generating process among drug discovery & development processes

TABLE 303 LEAD IDENTIFICATION MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 304 NORTH AMERICA: LEAD IDENTIFICATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 305 EUROPE: LEAD IDENTIFICATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 306 ASIA PACIFIC: LEAD IDENTIFICATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 307 LATIN AMERICA: LEAD IDENTIFICATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.3.3 LEAD OPTIMIZATION

9.3.3.1 Lead optimization to require state-of-the-art informatics systems for transparent presentation and analysis

TABLE 308 LEAD OPTIMIZATION MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 309 NORTH AMERICA: LEAD OPTIMIZATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 310 EUROPE: LEAD OPTIMIZATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 311 ASIA PACIFIC: LEAD OPTIMIZATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 312 LATIN AMERICA: LEAD OPTIMIZATION MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.3.4 PRECLINICAL STUDIES

9.3.4.1 Preclinical studies to facilitate transparent presentation and analysis of latest data for rapid reprioritization of synthetic targets

TABLE 313 PRECLINICAL STUDIES MARKET, BY REGION, 2021–2028 (USD MILLION)

TABLE 314 NORTH AMERICA: PRECLINICAL STUDIES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 315 EUROPE: PRECLINICAL STUDIES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 316 ASIA PACIFIC: PRECLINICAL STUDIES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 317 LATIN AMERICA: PRECLINICAL STUDIES MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

9.4 OTHER APPLICATIONS

TABLE 318 PROTEOMICS MARKET FOR OTHER APPLICATIONS, BY REGION, 2021–2028 (USD MILLION)

TABLE 319 NORTH AMERICA: PROTEOMICS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 320 EUROPE: PROTEOMICS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 321 ASIA PACIFIC: PROTEOMICS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 322 LATIN AMERICA: PROTEOMICS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

10 PROTEOMICS MARKET, BY END USER

10.1 INTRODUCTION

TABLE 323 PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

10.2 HOSPITALS

10.2.1 RISING ADOPTION OF PROTEOMICS FOR DISEASE DIAGNOSIS TO DRIVE MARKET

TABLE 324 PROTEOMICS MARKET FOR HOSPITALS, BY REGION, 2021–2028 (USD MILLION)

TABLE 325 NORTH AMERICA: PROTEOMICS MARKET FOR HOSPITALS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 326 EUROPE: PROTEOMICS MARKET FOR HOSPITALS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 327 ASIA PACIFIC: PROTEOMICS MARKET FOR HOSPITALS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 328 LATIN AMERICA: PROTEOMICS MARKET FOR HOSPITALS, BY COUNTRY, 2021–2028 (USD MILLION)

10.3 CLINICAL LABORATORIES

10.3.1 INCREASING OUTSOURCING OF DIAGNOSTICS TESTS BY HOSPITALS TO SUPPORT SEGMENT

TABLE 329 PROTEOMICS MARKET FOR CLINICAL LABORATORIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 330 NORTH AMERICA: PROTEOMICS MARKET FOR CLINICAL LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 331 EUROPE: PROTEOMICS MARKET FOR CLINICAL LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 332 ASIA PACIFIC: PROTEOMICS MARKET FOR CLINICAL LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 333 LATIN AMERICA: PROTEOMICS MARKET FOR CLINICAL LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

10.4 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES

10.4.1 RISING FOCUS ON DRUG DISCOVERY IN BIOPHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES TO DRIVE MARKET

TABLE 334 PROTEOMICS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 335 NORTH AMERICA: PROTEOMICS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 336 EUROPE: PROTEOMICS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 337 ASIA PACIFIC: PROTEOMICS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 338 LATIN AMERICA: PROTEOMICS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)

10.5 ACADEMIC RESEARCH LABORATORIES

10.5.1 INCREASING RESEARCH FUNDING FOR PRECISION MEDICINES TO AUGMENT MARKET

TABLE 339 PROTEOMICS MARKET FOR ACADEMIC RESEARCH LABORATORIES, BY REGION, 2021–2028 (USD MILLION)

TABLE 340 NORTH AMERICA: PROTEOMICS MARKET FOR ACADEMIC RESEARCH LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 341 EUROPE: PROTEOMICS MARKET FOR ACADEMIC RESEARCH LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 342 ASIA PACIFIC: PROTEOMICS MARKET FOR ACADEMIC RESEARCH LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 343 LATIN AMERICA: PROTEOMICS MARKET FOR ACADEMIC RESEARCH LABORATORIES, BY COUNTRY, 2021–2028 (USD MILLION)

10.6 OTHER END USERS

TABLE 344 PROTEOMICS MARKET FOR OTHER END USERS, BY REGION, 2021–2028 (USD MILLION)

TABLE 345 NORTH AMERICA: PROTEOMICS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 346 EUROPE: PROTEOMICS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 347 ASIA PACIFIC: PROTEOMICS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 348 LATIN AMERICA: PROTEOMICS MARKET FOR OTHER END USERS, BY COUNTRY, 2021–2028 (USD MILLION)

11 PROTEOMICS MARKET, BY REGION

11.1 INTRODUCTION

TABLE 349 PROTEOMICS MARKET, BY REGION, 2021–2028 (USD MILLION)

11.2 NORTH AMERICA

11.2.1 NORTH AMERICA: IMPACT OF ECONOMIC RECESSION

FIGURE 30 NORTH AMERICA: PROTEOMICS MARKET SNAPSHOT

TABLE 350 NORTH AMERICA: PROTEOMICS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 351 NORTH AMERICA: PROTEOMICS MARKET, BY INSTRUMENTATION

TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 352 NORTH AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 353 NORTH AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 354 NORTH AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 355 NORTH AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 356 NORTH AMERICA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 357 NORTH AMERICA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 358 NORTH AMERICA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 359 NORTH AMERICA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 360 NORTH AMERICA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 361 NORTH AMERICA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 362 NORTH AMERICA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 363 NORTH AMERICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 364 NORTH AMERICA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 365 NORTH AMERICA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.2.2 US

11.2.2.1 US to dominate North American proteomics market during forecast period

TABLE 366 US: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 367 US: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 368 US: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 369 US: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 370 US: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 371 US: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 372 US: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 373 US: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 374 US: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 375 US: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 376 US: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 377 US: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 378 US: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 379 US: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 380 US: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.2.3 CANADA

11.2.3.1 Strong infrastructure and increased availability of funding for biomedical research to support market

TABLE 381 CANADA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 382 CANADA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 383 CANADA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 384 CANADA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 385 CANADA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, 2021–2028 (USD MILLION)

TABLE 386 CANADA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 387 CANADA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 388 CANADA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 389 CANADA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 390 CANADA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 391 CANADA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 392 CANADA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 393 CANADA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 394 CANADA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 395 CANADA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3 EUROPE

11.3.1 EUROPE: IMPACT OF RECESSION

TABLE 396 EUROPE: PROTEOMICS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 397 EUROPE: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 398 EUROPE: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 399 EUROPE: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 400 EUROPE: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 401 EUROPE: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 402 EUROPE: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 403 EUROPE: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 404 EUROPE: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 405 EUROPE: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 406 EUROPE: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 407 EUROPE: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 408 EUROPE: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 409 EUROPE: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 410 EUROPE: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 411 EUROPE: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.2 GERMANY

11.3.2.1 Germany to be largest market for proteomics in European region during forecast period

TABLE 412 GERMANY: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 413 GERMANY: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 414 GERMANY: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 415 GERMANY: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 416 GERMANY: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 417 GERMANY: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 418 GERMANY: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 419 GERMANY: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 420 GERMANY: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 421 GERMANY: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 422 GERMANY: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 423 GERMANY: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 424 GERMANY: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 425 GERMANY: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 426 GERMANY: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.3 UK

- 11.3.3.1 High prevalence of cancer and growth in life science industry to fuel market
- TABLE 427 UK: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY 2021–2028 (USD MILLION)
- TABLE 428 UK: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 429 UK: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 430 UK: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 431 UK: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 432 UK: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 433 UK: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 434 UK: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)
- TABLE 435 UK: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)
- TABLE 436 UK: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 437 UK: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 438 UK: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)
- TABLE 439 UK: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 440 UK: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 441 UK: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.4 FRANCE

- 11.3.4.1 Development of new proteomics-based diagnostic tools and investments in life science R&D to drive market
- TABLE 442 FRANCE: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)
- TABLE 443 FRANCE: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 444 FRANCE: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)
- TABLE 445 FRANCE: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 446 FRANCE: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 447 FRANCE: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 448 FRANCE: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 449 FRANCE: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 450 FRANCE: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 451 FRANCE: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 452 FRANCE: PROTEOMICS MARKET, FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 453 FRANCE: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 454 FRANCE: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 455 FRANCE: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 456 FRANCE: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.5 SWITZERLAND

11.3.5.1 Well-established pharmaceutical & biotechnology industry and increased investments in life science R&D infrastructure to augment market

TABLE 457 SWITZERLAND: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 458 SWITZERLAND: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 459 SWITZERLAND: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 460 SWITZERLAND: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 461 SWITZERLAND: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 462 SWITZERLAND: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 463 SWITZERLAND: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 464 SWITZERLAND: PROTEOMICS MARKET, BY REAGENT, 2021–2028

(USD MILLION)

TABLE 465 SWITZERLAND: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 466 SWITZERLAND: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 467 SWITZERLAND: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 468 SWITZERLAND: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 469 SWITZERLAND: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 470 SWITZERLAND: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 471 SWITZERLAND: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.6 ITALY

11.3.6.1 Increase in federal grants and private funding programs to support projects on translational research

TABLE 472 ITALY: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 473 ITALY: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 474 ITALY: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 475 ITALY: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 476 ITALY: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 477 ITALY: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 478 ITALY: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 479 ITALY: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 480 ITALY: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 481 ITALY: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 482 ITALY: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 483 ITALY: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 484 ITALY: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 485 ITALY: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 486 ITALY: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.3.7 SPAIN

11.3.7.1 Well-established network of research centers, universities, and hospitals to aid proteomics research

TABLE 487 SPAIN: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 488 SPAIN: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 489 SPAIN: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 490 SPAIN: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 491 SPAIN: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 492 SPAIN: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 493 SPAIN: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 494 SPAIN: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 495 SPAIN: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 496 SPAIN: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 497 SPAIN: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 498 SPAIN: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 499 SPAIN: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 500 SPAIN: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 501 SPAIN: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD

MILLION)

11.3.8 REST OF EUROPE

TABLE 502 REST OF EUROPE: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 503 REST OF EUROPE: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 504 REST OF EUROPE: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 505 REST OF EUROPE: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 506 REST OF EUROPE: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 507 REST OF EUROPE: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 508 REST OF EUROPE: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 509 REST OF EUROPE: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 510 REST OF EUROPE: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 511 REST OF EUROPE: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 512 REST OF EUROPE: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 513 REST OF EUROPE: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 514 REST OF EUROPE: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 515 REST OF EUROPE: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 516 REST OF EUROPE: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4 ASIA PACIFIC

11.4.1 ASIA PACIFIC: IMPACT OF ECONOMIC RECESSION

FIGURE 31 ASIA PACIFIC: PROTEOMICS MARKET SNAPSHOT

TABLE 517 ASIA PACIFIC: PROTEOMICS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 518 ASIA PACIFIC: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 519 ASIA PACIFIC: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 520 ASIA PACIFIC: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 521 ASIA PACIFIC: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 522 ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 523 ASIA PACIFIC: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 524 ASIA PACIFIC: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 525 ASIA PACIFIC: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 526 ASIA PACIFIC: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 527 ASIA PACIFIC: PROTEOMICS MARKET FOR CORE PROTEOMICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 528 ASIA PACIFIC: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 529 ASIA PACIFIC: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 530 ASIA PACIFIC: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 531 ASIA PACIFIC: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 532 ASIA PACIFIC: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4.2 CHINA

11.4.2.1 Heavy investments in life science industry and establishment of proteomics research centers to drive market

TABLE 533 CHINA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 534 CHINA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 535 CHINA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 536 CHINA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 537 CHINA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 538 CHINA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 539 CHINA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 540 CHINA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 541 CHINA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 542 CHINA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 543 CHINA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 544 CHINA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 545 CHINA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 546 CHINA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 547 CHINA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4.3 JAPAN

11.4.3.1 Increased targeted funding for precision medicine research to support market

TABLE 548 JAPAN: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 549 JAPAN: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 550 JAPAN: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 551 JAPAN: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 552 JAPAN: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 553 JAPAN: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 554 JAPAN: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 555 JAPAN: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 556 JAPAN: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 557 JAPAN: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 558 JAPAN: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 559 JAPAN: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 560 JAPAN: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 561 JAPAN: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 562 JAPAN: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4.4 INDIA

11.4.4.1 Increasing number of proteomics and genomics research studies to support market

TABLE 563 INDIA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY 2021–2028 (USD MILLION)

TABLE 564 INDIA: PROTEOMICS MARKET, FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 565 INDIA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 566 INDIA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 567 INDIA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 568 INDIA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 569 INDIA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 570 INDIA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 571 INDIA: PROTEOMICS MARKET BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 572 INDIA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 573 INDIA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 574 INDIA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD

MILLION)

TABLE 575 INDIA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 576 INDIA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 577 INDIA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4.5 AUSTRALIA

11.4.5.1 Increasing focus of healthcare system on precision medicine to offer significant growth opportunities

TABLE 578 AUSTRALIA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 579 AUSTRALIA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 580 AUSTRALIA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 581 AUSTRALIA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 582 AUSTRALIA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 583 AUSTRALIA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 584 AUSTRALIA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 585 AUSTRALIA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 586 AUSTRALIA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 587 AUSTRALIA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 588 AUSTRALIA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 589 AUSTRALIA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 590 AUSTRALIA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 591 AUSTRALIA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 592 AUSTRALIA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.4.6 REST OF ASIA PACIFIC

TABLE 593 REST OF ASIA PACIFIC: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 594 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 595 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 596 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 597 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS BY TYPE, 2021–2028 (USD MILLION)

TABLE 598 REST OF ASIA PACIFIC: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 599 REST OF ASIA PACIFIC: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 600 REST OF ASIA PACIFIC: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 601 REST OF ASIA PACIFIC: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 602 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 603 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 604 REST OF ASIA PACIFIC: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 605 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 606 REST OF ASIA PACIFIC: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 607 REST OF ASIA PACIFIC: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.5 LATIN AMERICA

11.5.1 LATIN AMERICA: IMPACT OF ECONOMIC RECESSION

TABLE 608 LATIN AMERICA: PROTEOMICS MARKET, BY COUNTRY, 2021–2028 (USD MILLION)

TABLE 609 LATIN AMERICA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 610 LATIN AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 611 LATIN AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 612 LATIN AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 613 LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 614 LATIN AMERICA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 615 LATIN AMERICA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 616 LATIN AMERICA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 617 LATIN AMERICA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 618 LATIN AMERICA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 619 LATIN AMERICA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 620 LATIN AMERICA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 621 LATIN AMERICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 622 LATIN AMERICA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 623 LATIN AMERICA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.5.2 BRAZIL

11.5.2.1 Growing contract research and manufacturing activities to drive market

TABLE 624 BRAZIL: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 625 BRAZIL: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 626 BRAZIL: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 627 BRAZIL: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 628 BRAZIL: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 629 BRAZIL: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 630 BRAZIL: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 631 BRAZIL: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 632 BRAZIL: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 633 BRAZIL: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 634 BRAZIL: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICE, BY TYPE, 2021–2028 (USD MILLION)

TABLE 635 BRAZIL: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 636 BRAZIL: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 637 BRAZIL: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 638 BRAZIL: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.5.3 MEXICO

11.5.3.1 Strong pharmaceutical industry and increased government support for proteomics research to augment market

TABLE 639 MEXICO: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 640 MEXICO: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 641 MEXICO: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 642 MEXICO: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 643 MEXICO: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 644 MEXICO: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 645 MEXICO: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 646 MEXICO: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 647 MEXICO: PROTEOMICS MARKET, BY SOLUTION & SERVICE, 2021–2028 (USD MILLION)

TABLE 648 MEXICO: PROTEOMICS MARKET FOR CORE PROTEOMICS

SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 649 MEXICO: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 650 MEXICO: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 651 MEXICO: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 652 MEXICO: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 653 MEXICO: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.5.4 REST OF LATIN AMERICA

TABLE 654 REST OF LATIN AMERICA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 655 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 656 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 657 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 658 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 659 REST OF LATIN AMERICA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 660 REST OF LATIN AMERICA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 661 REST OF LATIN AMERICA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 662 REST OF LATIN AMERICA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 663 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 664 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 665 REST OF LATIN AMERICA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 666 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 667 REST OF LATIN AMERICA: PROTEOMICS MARKET FOR DRUG

DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 668 REST OF LATIN AMERICA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

11.6 MIDDLE EAST & AFRICA

11.6.1 INCREASING PARTNERSHIPS AMONG GLOBAL PLAYERS WITH GOVERNMENT ORGANIZATIONS TO FUEL MARKET

TABLE 669 MIDDLE EAST & AFRICA: PROTEOMICS MARKET, BY INSTRUMENTATION TECHNOLOGY, 2021–2028 (USD MILLION)

TABLE 670 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR SPECTROSCOPY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 671 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR CHROMATOGRAPHY, BY TYPE, 2021–2028 (USD MILLION)

TABLE 672 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR ELECTROPHORESIS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 673 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR PROTEIN MICROARRAYS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 674 MIDDLE EAST & AFRICA: BIOCHIPS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 675 MIDDLE EAST & AFRICA: MICROARRAY INSTRUMENTS MARKET, BY TYPE, 2021–2028 (USD MILLION)

TABLE 676 MIDDLE EAST & AFRICA: PROTEOMICS MARKET, BY REAGENT, 2021–2028 (USD MILLION)

TABLE 677 MIDDLE EAST & AFRICA: PROTEOMICS MARKET, BY SOFTWARE & SERVICE, 2021–2028 (USD MILLION)

TABLE 678 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR CORE PROTEOMICS SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 679 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR BIOINFORMATICS SOFTWARE & SERVICES, BY TYPE, 2021–2028 (USD MILLION)

TABLE 680 MIDDLE EAST & AFRICA: PROTEOMICS MARKET, BY APPLICATION, 2021–2028 (USD MILLION)

TABLE 681 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR CLINICAL DIAGNOSTICS, BY TYPE, 2021–2028 (USD MILLION)

TABLE 682 MIDDLE EAST & AFRICA: PROTEOMICS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY TYPE, 2021–2028 (USD MILLION)

TABLE 683 MIDDLE EAST & AFRICA: PROTEOMICS MARKET, BY END USER, 2021–2028 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 INTRODUCTION

12.2 STRATEGIES ADOPTED BY KEY PLAYERS

FIGURE 32 PROTEOMICS MARKET: STRATEGIES ADOPTED BY KEY PLAYERS

12.3 REVENUE SHARE ANALYSIS

FIGURE 33 REVENUE ANALYSIS OF KEY PLAYERS, 2020–2022

12.4 MARKET SHARE ANALYSIS

FIGURE 34 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2022

TABLE 684 PROTEOMICS MARKET: DEGREE OF COMPETITION

12.5 COMPANY EVALUATION QUADRANT FOR KEY PLAYERS

12.5.1 STARS

12.5.2 EMERGING LEADERS

12.5.3 PERVASIVE PLAYERS

12.5.4 PARTICIPANTS

FIGURE 35 PROTEOMICS MARKET: COMPANY EVALUATION MATRIX FOR KEY PLAYERS, 2022

12.6 COMPETITIVE BENCHMARKING OF TOP 25 PLAYERS

12.6.1 INDUSTRY FOOTPRINT OF COMPANIES (25 COMPANIES)

TABLE 685 INDUSTRY FOOTPRINT ANALYSIS OF KEY PLAYERS IN PROTEOMICS MARKET

12.6.2 PRODUCTS AND SERVICE FOOTPRINT OF COMPANIES (25 COMPANIES)

TABLE 686 PRODUCT AND SERVICE FOOTPRINT ANALYSIS OF KEY PLAYERS IN PROTEOMICS MARKET

12.6.3 GEOGRAPHICAL FOOTPRINT OF COMPANIES (25 COMPANIES)

TABLE 687 GEOGRAPHICAL FOOTPRINT ANALYSIS OF PLAYERS IN PROTEOMICS MARKET

12.7 COMPANY EVALUATION QUADRANT FOR START-UPS/SMES

12.7.1 PROGRESSIVE COMPANIES

12.7.2 STARTING BLOCKS

12.7.3 RESPONSIVE COMPANIES

12.7.4 DYNAMIC COMPANIES

FIGURE 36 PROTEOMICS MARKET: COMPANY EVALUATION MATRIX FOR START-UPS/SMES, 2022

12.8 COMPETITIVE BENCHMARKING OF START-UPS/SMES

TABLE 688 PROTEOMICS SERVICES MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 689 PROTEOMICS MARKET: COMPETITIVE BENCHMARKING OF START-UPS/SMES

12.9 COMPETITIVE SCENARIO AND TRENDS

12.9.1 KEY PRODUCT LAUNCHES

TABLE 690 PROTEOMICS MARKET: KEY PRODUCT LAUNCHES, JANUARY 2020–APRIL 2023

12.9.2 KEY DEALS

TABLE 691 PROTEOMICS MARKET: KEY DEALS, JANUARY 2020–APRIL 2023

12.9.3 OTHER KEY DEVELOPMENTS

TABLE 692 PROTEOMICS MARKET: OTHER KEY DEVELOPMENTS, JANUARY 2020–APRIL 2023

13 COMPANY PROFILES

13.1 KEY PLAYERS

(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)*

13.1.1 THERMO FISHER SCIENTIFIC INC.

TABLE 693 THERMO FISHER SCIENTIFIC INC.: COMPANY OVERVIEW

FIGURE 37 THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT (2022)

13.1.2 AGILENT TECHNOLOGIES, INC.

TABLE 694 AGILENT TECHNOLOGIES, INC.: COMPANY OVERVIEW

FIGURE 38 AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT (2022)

13.1.3 MERCK KGAA

TABLE 695 MERCK KGAA: COMPANY OVERVIEW

FIGURE 39 MERCK KGAA: COMPANY SNAPSHOT (2022)

13.1.4 DANAHER

TABLE 696 DANAHER: COMPANY OVERVIEW

FIGURE 40 DANAHER: COMPANY SNAPSHOT (2022)

13.1.5 WATERS CORPORATION

TABLE 697 WATERS CORPORATION: COMPANY OVERVIEW

FIGURE 41 WATERS CORPORATION: COMPANY SNAPSHOT (2022)

13.1.6 BIO-RAD LABORATORIES, INC.

TABLE 698 BIO-RAD LABORATORIES, INC.: COMPANY OVERVIEW

FIGURE 42 BIO-RAD LABORATORIES, INC.: COMPANY SNAPSHOT (2022)

13.1.7 BRUKER CORPORATION

TABLE 699 BRUKER CORPORATION: COMPANY OVERVIEW

FIGURE 43 BRUKER CORPORATION: COMPANY SNAPSHOT (2022)

13.1.8 PERKINELMER, INC.

TABLE 700 PERKINELMER, INC.: COMPANY OVERVIEW

FIGURE 44 PERKINELMER, INC.: COMPANY SNAPSHOT (2022)

13.1.9 SHIMADZU CORPORATION

TABLE 701 SHIMADZU CORPORATION: COMPANY OVERVIEW

FIGURE 45 SHIMADZU CORPORATION: COMPANY SNAPSHOT (2022)

13.1.10 ILLUMINA, INC.

TABLE 702 ILLUMINA, INC.: COMPANY OVERVIEW

FIGURE 46 ILLUMINA, INC.: COMPANY SNAPSHOT (2022)

13.1.11 PROMEGA CORPORATION

TABLE 703 PROMEGA CORPORATION: COMPANY OVERVIEW

13.1.12 EUROFINS SCIENTIFIC

TABLE 704 EUROFINS SCIENTIFIC: COMPANY OVERVIEW

FIGURE 47 EUROFINS SCIENTIFIC: COMPANY SNAPSHOT (2022)

13.1.13 QIAGEN N.V.

TABLE 705 QIAGEN N.V.: COMPANY OVERVIEW

FIGURE 48 QIAGEN N.V.: COMPANY SNAPSHOT (2022)

13.1.14 CHARLES RIVER LABORATORIES

TABLE 706 CHARLES RIVER LABORATORIES: COMPANY OVERVIEW

FIGURE 49 CHARLES RIVER LABORATORIES: COMPANY SNAPSHOT (2022)

13.1.15 PROTAGENE PROTEIN SERVICES

TABLE 707 PROTAGENE PROTEIN SERVICES: COMPANY OVERVIEW

*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

13.2 OTHER PLAYERS

13.2.1 CREATIVE PROTEOMICS

13.2.2 HORIBA CORPORATION

13.2.3 SENGENICS

13.2.4 BIOMAX INFORMATICS AG

13.2.5 WUXI NEXTCODE

13.2.6 FIOS GENOMICS

13.2.7 GENEWIZ

13.2.8 MEDGENOME LABS

13.2.9 BIOGNOSYS AG

13.2.10 MACROGEN INC.

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

About

Over the last decade, proteomics technology has been advancing steadily and has proven to be a powerful tool in the field of pharmaceutical drug discovery and development and in clinical diagnosis. It helps in detecting the disease in its nascent phase, predicting disease prognosis, and identifying druggable targets for new therapeutics. The proteomics market is divided into three major segments, namely instrumentation technology, reagents, and services. Factors such as innovations and development in instruments, extensive updation of old proteomics-based approaches, increasing research and development expenditures, and availability of funds from various organizations are driving the growth of the instrumentation technology and reagents markets. The services market is expected to register significant growth owing to the increase in proteomic outsourcing services to pharmaceutical and biotechnology companies, emergence of proteomics-specific analytical laboratories, and increasing utilization of bioinformatics tools in proteomics research. However, the economic downturn and lower adoption rates due to expensive tools and instruments are expected to restrict the growth of this market to a certain extent.

The global proteomics market is estimated to grow from \$XX billion in 2013 to \$XX billion by 2018, at a CAGR of XX%. The key players in the proteomics market are Thermo Fisher Scientific (U.S.), Agilent Technologies (U.S.), Life Technologies Corporation (U.S.), Sigma-Aldrich Corporation (U.S.), Danaher Corporation (AB Sciex and Beckman Coulter) (U.S.), Waters Corporation (U.S.), Roche (Switzerland), Bio-Rad Laboratories (U.S.), and Luminex Corporation (U.S.).

Currently, the global proteomics market is propelled by the increasing demand for personalized medicine, rising research and development expenditures, technological advancements, and increased funding for proteomics projects. This increase in demand can be attributed to the development of proteomic tools for the early detection of cancer and rising healthcare awareness across the world. The deployment of proteomic-based approaches in the biomarker detection and cancer profiling is expected to play a vital role in the growth of the market during the forecast period. In addition, the rising potential for proteomics to move beyond basic research, into clinical research and diagnostics, is expected to drive the proteomics market during the forecast period.

In terms of geographic focus, the market has moved from the developed markets across

North America and Europe to the high-growth developing markets across Asia especially the Chinese region. The increasing outsourcing trend in the pharmaceutical industry has also led to a surge in the proteomics market across India and China. China has emerged as the preferred R&D location for global pharmaceutical companies. Moreover, Japan has also emphasized on increasing the R&D expenditure in the country; indicating gradual development of a strong research base in the Asia-Pacific region, which in turn will drive the market for proteomics research and its application in this region.

The global proteomics market studied in this report is segmented in three ways, namely, by instrumentation technology, by reagents and by services type. The instrumentation technology segment is further classified as protein microarray, spectroscopy, X-ray crystallography, chromatography, electrophoresis, surface plasmon resonance (SPR) system, and protein fractionation system.

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