Transplant Diagnostics Market - Global forecast to 2021

Description: “Transplant Diagnostics Market by Technology (PCR, SSO-PCR, SSP-PCR, NGS, Sanger’s Sequencing, Microarray), Products & Services (Instruments, Reagents), Application (Blood Profiling, Infectious Disease Testing), End User (Hospitals) - Global forecast 2021”

The global transplant diagnostics market is estimated to grow at a CAGR of 7.0% during the forecast period and is expected to be valued at USD 4.36 billion by 2021. Although the mature markets (North America and Europe) held the largest share of the transplant diagnostics market in 2015; the Asia-Pacific region is expected to grow at the highest CAGR during the forecast period owing to factors such as rising incidence of chronic and infectious diseases, increase in awareness related to transplant diagnostic procedures, and continuously rising healthcare expenditure in the Asia-Pacific region.

Factors such as the growing number of solid organ, tissue, and stem cell transplantation procedures; ongoing technological advancements in the field of genetics; and growing awareness among healthcare professionals about the benefits offered by molecular assay techniques are propelling the growth of the global transplant diagnostics market. In addition, emerging markets (such as China and India) are offering new growth opportunities for players operating in the market.

Geographically, North America is estimated to command the largest share of the global transplant diagnostics market in 2016, followed by Europe. Significant growth potential offered by the North American transplant diagnostics market is attributed to the high adoption of advanced diagnostic technologies among healthcare professionals in the region, increasing prevalence of target diseases, and continuous technological advancements in the field of genomic analysis.

The transplant diagnostics market is fairly competitive, with growing number of global and local manufacturers of transplant diagnostic products. Thermo Fisher Scientific, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), and F. Hoffman-La Roche Ltd. (Switzerland) were the top three players in the transplant diagnostics market in 2015. Product launches; approvals and product enhancements; agreements, partnerships, and collaborations; geographic expansions are the major strategies adopted by most of the market players to achieve growth in the transplant diagnostics market.

Research Coverage

Apart from the comprehensive geographical and product analysis and market sizing, the report also provides a competitive landscape that covers the growth strategies adopted by industry players over the last three years. In addition, the company profiles comprise basic views on key players in the transplant diagnostics market and their product portfolios, developments, and strategies. The above-mentioned market research data, current market size, and forecast of the future trends will help key players and new entrants to make the necessary decisions regarding product offerings, geographical focus, changes in strategic approach, R&D investments for innovations in products and technologies, and levels of output in order to remain successful.

Reasons to Buy the Report:

The report will enrich both established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn will help firms, garner a greater market share. Firms purchasing the report can use any one or a combination of the below-mentioned five strategies (market penetration, product development/innovation, market development, market diversification, and competitive assessment) for strengthening their market shares.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on the product portfolios of top players in the transplant diagnostics market. The report analyzes the transplant diagnostics market by technology, product and services, application, and end user.
- Product Development/Innovation: Detailed insights on the upcoming technologies, R&D activities, and new product launches in the transplant diagnostics market
Competitive Assessment: In-depth assessment of market strategies, geographical and business segments, and product portfolios of leading players in the transplant diagnostics market

Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the market for various transplant diagnostic products across geographies

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the transplant diagnostics market

Detailed Segmentation:

Transplant Diagnostics Market, by Technology
- Molecular Assay
- PCR Based
- Real Time PCR
- Sequence Specific Primer (SSP) PCR
- Sequence Specific Oligonucleotide (Sso) PCR
- Other PCR Technologies
- Sequencing Based
- Sanger's Sequencing
- Next Generation Sequencing (NGS)
- Others
- Non-molecular Assay

Transplant Diagnostics Market, by Products and Services
- Instruments
- Reagents and Consumables
- Software and Services

Transplant Diagnostics Market, by Application
- Research Applications
- Diagnostic Applications
- Infectious Disease Diagnostics
- Histocompatibility Testing
- Blood Profiling

Transplant Diagnostics Market, by End User
- Commercial Service Providers
- Hospitals and Transplant Centers
- Research Laboratories and Academic Institutes

Transplant Diagnostics Market, by Region
- North America
- U.S.
- Europe
- Asia-Pacific
- Rest of the World

Key Target Audience:
- Transplant Diagnostics Product Manufacturing Companies
- Healthcare Service Providers (Including Hospitals, and Transplant Centers and Blood Transfusion Centers)
- Research and Development (R&D) Companies
- Commercial Service Providers
- Diagnostic Laboratories
- Clinical Research Organizations (CROs)
- Research Laboratories and Academic Institutes
- Market Research and Consulting Firms
6.4.1 Threat of New Entrants
6.4.2 Threat of Substitutes
6.4.3 Bargaining Power of Suppliers
6.4.4 Bargaining Power of Buyers
6.4.5 Intensity of Competitive Rivalry

7 Transplant Diagnostics Market, By Technology
7.1 Introduction
7.2 Molecular Assay Technologies
7.2.1 PCR-Based Molecular Assay Technologies
7.2.1.1 Real-Time PCR
7.2.1.2 Sequence-Specific Primer-PCR (SSP-PCR)
7.2.1.3 Sequence-Specific Oligonucleotide-PCR (SSO-PCR)
7.2.1.4 Other PCR Technologies
7.2.2 Sequencing-Based Molecular Assay Technologies
7.2.2.1 Sanger Sequencing
7.2.2.2 Next-Generation Sequencing (NGS)
7.2.2.3 Other Sequencing Technologies
7.3 Non-Molecular Assay Technologies

8 Transplant Diagnostics Market, By Products & Services
8.1 Introduction
8.2 Reagents and Consumables
8.3 Instruments
8.4 Software and Services

9 Transplant Diagnostics Market, By Application
9.1 Introduction
9.2 Diagnostic Applications
9.2.1 Infectious Disease Diagnostics
9.2.2 Histocompatibility Testing
9.2.3 Blood Profiling
9.3 Research Applications

10 Transplant Diagnostics Market, By End User
10.1 Introduction
10.2 Commercial Service Providers
10.3 Hospitals and Transplant Centers
10.4 Research Laboratories and Academic Institutes

11 Transplant Diagnostics Market, By Region
11.1 Introduction
11.2 North America
11.2.1 U.S.
11.3 Europe
11.4 Asia-Pacific
11.5 Rest of the World (RoW)

12 Competitive Landscape
12.1 Overview
12.2 Market Share Analysis
12.3 Competitive Scenario
12.3.1 Strategic Benchmarking
12.3.1.1 Pipeline Development and Product Commercialization
12.4 Recent Developments
12.4.1 New Product Launches, Approvals, and Product Enhancement
12.4.2 Agreements, Partnerships, and Collaborations
12.4.3 Acquisition
12.4.4 Expansion
12.4.5 Other Developments

13 Company Profiles
(Introduction, Products & Services, Strategy, & Analyst Insights, Developments, MnM View) -
13.1 Introduction
13.2 Thermo Fisher Scientific Inc.
13.3 Bio-Rad Laboratories, Inc.
13.4 F. Hoffman-La Roche Limited
13.5 Qiagen N.V.
13.6 Immucor, Inc.
13.7 Biomerieux SA
13.8 Illumina, Inc.
13.9 Becton Dickinson and Company
13.10 Caredx, Inc.
13.11 Gendx

14 Appendix
14.1 Insights of Industry Experts
14.2 Discussion Guide

List of Tables

Table 1 Total Cost of Transplant Procedures in the U.S.: By Organ Transplantation Stages (Including Transplant Diagnosis and Monitoring)
Table 2 Global Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 3 Market Size, By Region, 2014-2021 (USD Million)
Table 4 Global Market Size for Molecular Assay Technologies, By Type, 2014-2021 (USD Million)
Table 5 Market Size for PCR-Based Molecular Assay Technologies, By Region, 2014-2021 (USD Million)
Table 6 Global Market Size for PCR-Based Molecular Assay Technologies, By Type, 2014-2021 (USD Million)
Table 7 Market Size for Real-Time PCR Technology, By Region, 2014-2021 (USD Million)
Table 8 Market Size for SSP-PCR Technology, By Region, 2014-2021 (USD Million)
Table 9 Market Size for SSO-PCR Technology, By Region, 2014-2021 (USD Million)
Table 10 Market Size for Other PCR Technologies, By Region, 2014-2021 (USD Million)
Table 11 Market Size for NGS Technology, By Region, 2014-2021 (USD Million)
Table 12 Global Market Size for Sequencing-Based Molecular Assay Technologies, By Type, 2014-2021 (USD Million)
Table 13 Market Size for Sequencing-Based Molecular Assay Technologies, By Region, 2014-2021 (USD Million)
Table 14 Market Size for Sanger Sequencing, By Region, 2014-2021 (USD Million)
Table 15 Market Size for NGS Technology, By Region, 2014-2021 (USD Million)
Table 16 Market Size for Other Sequencing Technologies, By Region, 2014-2021 (USD Million)
Table 17 Market Size for Non-Molecular Assay Technologies, By Region, 2014-2021 (USD Million)
Table 18 Global Market Size, By Products & Services, 2014-2021 (USD Million)
Table 19 Market Size, By Region, 2014-2021 (USD Million)
Table 20 Transplant Diagnostic Reagents and Consumables Market Size, By Region, 2014-2021 (USD Million)
Table 21 Transplant Diagnostic Instruments Market Size, By Region, 2014-2021 (USD Million)
Table 22 Transplant Diagnostic Software and Services Market Size, By Region, 2014-2021 (USD Million)
Table 23 Global Market Size, By Application, 2014-2021 (USD Million)
Table 24 Market Size, By Region, 2014-2021 (USD Million)
Table 25 Global Market Size for Diagnostic Applications, By Type, 2014-2021 (USD Million)
Table 26 Market for Diagnostic Applications, By Region, USD Million (2016-2021)
Table 27 Market Size for Infectious Diseases Diagnostic Applications, By Region, 2014-2021 (USD Million)
Table 28 Market Size for Histocompatibility Testing, By Region, 2014-2021 (USD Million)
Table 29 Transplant Diagnostics Market Size for Blood Profiling Applications, By Region, 2014-2021 (USD Million)
Table 30 Transplant Diagnostics Market Size for Research Applications, By Region, 2014-2021 (USD Million)
Table 31 Global Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 32 Transplant Diagnostics Market Size, By Region, 2014-2021 (USD Million)
Table 33 Transplant Diagnostics Market Size for Commercial Service Providers, By Region, 2014-2021 (USD Million)
Table 34 Transplant Diagnostics Market Size for Hospitals and Transplant Centers, By Region, 2014-2021 (USD Million)
Table 35 Transplant Diagnostics Market Size for Research Laboratories and Academic Institutes, By Region, 2014-2021 (USD Million)
Table 36 Transplant Diagnostics Market Size, By Region, 2014-2021 (USD Million)
Table 37 North America: Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 38 North America: Molecular Assay-Based Transplant Diagnostics Market Size, By Technology, 2014-
Table 39 North America: Transplant Diagnostics Market Size, By Products and Services, 2014-2021 (USD Million)
Table 40 North America: Transplant Diagnostics Market Size, By Application, 2014-2021 (USD Million)
Table 41 North America: Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 42 U.S.: Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 43 U.S.: Molecular Assay-Based Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 44 U.S.: Transplant Diagnostics Market Size, By Products and Services, 2014-2021 (USD Million)
Table 45 U.S.: Transplant Diagnostics Market Size, By Application, 2014-2021 (USD Million)
Table 46 U.S.: Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 47 Europe: Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 48 Europe: Molecular Assay-Based Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 49 Europe: Transplant Diagnostics Market Size, By Products and Services, 2014-2021 (USD Million)
Table 50 Europe: Transplant Diagnostics Market Size, By Application, 2014-2021 (USD Million)
Table 51 Europe: Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 52 Asia-Pacific: Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 53 Asia-Pacific: Molecular Assay-Based Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 54 Asia-Pacific: Transplant Diagnostics Market Size, By Products and Services, 2014-2021 (USD Million)
Table 55 Asia-Pacific: Transplant Diagnostics Market Size, By Application, 2014-2021 (USD Million)
Table 56 Asia-Pacific: Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 57 RoW: Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 58 RoW: Molecular Assay-Based Transplant Diagnostics Market Size, By Technology, 2014-2021 (USD Million)
Table 59 RoW: Transplant Diagnostics Market Size, By Products and Services, 2014-2021 (USD Million)
Table 60 RoW: Transplant Diagnostics Market Size, By Application, 2014-2021 (USD Million)
Table 61 RoW: Transplant Diagnostics Market Size, By End User, 2014-2021 (USD Million)
Table 62 Top New Product Launches, Approvals, and Product Enhancement (2013-2016)
Table 63 Top Agreements, Partnerships, and Collaborations (2013-2016)
Table 64 Top Acquisitions (2013-2016)
Table 65 Top Expansions (2013-2016)
Table 66 Top Other Developments (2013-2016)

List of Figures

Figure 1 Research Design
Figure 2 Healthcare Expenditure Across Major Countries: 2000-2014
Figure 3 Healthcare Expenditure Across Major Regions: 2000-2014
Figure 4 Healthcare Spending Matrix: Key Markets (2014)
Figure 5 Increase in Geriatric Population, By Country (2011-2030)
Figure 6 Increase in the Proportion of the Elderly in the Overall Population, By Country (2011-2030)
Figure 7 Percentage Increase in Geriatric Population, By Region (1980-2010 vs 2010-2040)
Figure 8 Global Burden of Cancer, By Region (2005-2030)
Figure 9 Number of New Cancer Cases, By Country (2012-2020)
Figure 10 Global Burden of Cardiovascular Diseases, By Region (2005-2030)
Figure 11 Number of Live and Cadaver Organ Donations, By Country (2010-2014)
Figure 12 Bottom-Up Approach: Transplant Diagnostics Instruments Market
Figure 13 Bottom-Up Approach: Transplant Diagnostic Reagents and Consumables Market
Figure 14 Top-Down Approach
Figure 15 Data Triangulation
Figure 16 Assumptions of the Study
Figure 17 Real-Time PCR Technology is Poised to Be the Fastest Growing Transplant Diagnostic Technology Market During 2016-2021
Figure 18 Reagents and Consumables Transplant Diagnostic Products Market Till 2021
Figure 19 Infectious Disease Diagnostics is Poised to Be the Fastest Growing Transplant Diagnostic Application Segment Till 2021
Figure 20 Hospitals and Transplant Centers are Poised to Be the Fastest Growing Transplant Diagnostic End Users Segment During 2016-2021
Figure 21 North America to Dominate the Global Transplant Diagnostic Industry During 2016-2021
Figure 22 Growing Number of Transplantation Procedures to Drive the Market Growth for Transplant Diagnostic Products
Figure 23 North America is Expected to Dominate the Transplant Diagnostic Technologies Market in 2016
Figure 24 Reagents and Consumables to Dominate the Transplant Diagnostics Products Market During the Forecast Period
Figure 25 Infectious Disease Diagnostics is Expected to Command the Largest Share of Transplant Diagnostic Applications Market in 2016
Figure 26 Hospitals and Transplant Centers to Dominate the Transplant Diagnostics End Users Market During the Forecast Period
Figure 27 Transplant Diagnostics Market: Drivers, Restraints, Opportunities, and Challenges
Figure 28 Number of Organ Transplant Procedures in the U.S., 2012-2015
Figure 29 Percentage Change in Annual Healthcare Expenditure - Developed vs Developing Countries (2010-2015)
Figure 30 Value Chain Analysis: Major Value is Added to the Overall Product Pricing During the R&D Phase
Figure 31 Porter's Five Forces Analysis: Transplant Diagnostics Market (2015)
Figure 32 Molecular Assay Technology Segment to Grow Faster Than Non-Molecular Assay Techniques Till 2021
Figure 33 Real-Time PCR to Dominate PCR-Based Transplant Diagnostic Technology Market During the Study Period
Figure 34 NGS to Dominate Sequencing-Based Transplant Diagnostic Technologies Market Till 2021
Figure 35 Instruments is Poised to Be the Fastest Growing Transplant Diagnostic Products Segment During 2016-2021
Figure 36 Infectious Disease Diagnostics to Dominate the Transplant Diagnostics Application Market During the Study Period
Figure 37 Hospitals and Transplant Centers Poised to Be the Fastest Growing End User Segment in Transplant Diagnostic Industry Till 2021
Figure 38 North America: Transplant Diagnostics Market Snapshot (2016-2021)
Figure 39 Europe: Transplant Diagnostics Market Snapshot (2016-2021)
Figure 40 Asia-Pacific: Transplant Diagnostics Market Snapshot (2016-2021)
Figure 41 RoW: Transplant Diagnostics Market Snapshot (2016-2021)
Figure 42 Agreements, Partnerships, and Collaborations, Key Growth Strategies Adopted By Market Players From 2012 to 2016
Figure 43 Global Transplant Diagnostics Market Ranking, Key Player (2015)
Figure 44 Inorganic Strategies to Assist in the Market Growth of Leading Transplant Diagnostic Product Manufacturers
Figure 45 Strategic Benchmarking of the Top 5 Market Players (2015)
Figure 46 Geographic Revenue Mix of the Top 5 Market Players (2015)
Figure 47 Company Snapshot: Thermo Fisher Scientific Inc.
Figure 48 Company Snapshot: Bio-Rad Laboratories, Inc.
Figure 49 Company Snapshot: F. Hoffman-La Roche Ltd.
Figure 50 Company Snapshot: Qiagen N.V.
Figure 51 Company Snapshot: Immucor, Inc.
Figure 52 Company Snapshot: Biomérieux SA
Figure 53 Company Snapshot: Illumina, Inc.
Figure 54 Company Snapshot: Becton, Dickinson and Company
Figure 55 Company Snapshot: Caredx, Inc.

Ordering:
Order Online - [http://www.researchandmarkets.com/reports/4032334/](http://www.researchandmarkets.com/reports/4032334/)
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: Transplant Diagnostics Market - Global forecast to 2021
Web Address: http://www.researchandmarkets.com/reports/4032334/
Office Code: SC

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

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

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐
First Name: ___________________________________________ Last 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:

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account number</td>
<td>833 130 83</td>
</tr>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

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