

DRUG DISCOVERY TECHNOLOGIES – A GLOBAL MARKET OVERVIEW

Summary

The development of new drugs for treating difficult diseases, such as cancer requires extensive expenditure, in addition to consuming a lot of time. The first step in designing a new drug involves the utilizing high-throughput screening of large chemical libraries for identifying compounds that can provide the requisite therapeutic effect. The capability of visualizing biological activity at the cellular level has constituted a strategic component in drug discovery, and adding automation and high-volume screening methods has enabled in testing compounds in large numbers. The field of pharmaceutical research is being provided considerable impetus through the combination of imaging and screening.

Worldwide market for drug discovery technologies explored in this study includes Bioanalytical Assays, Bioinformatics, Cell Based Assays, Genomic Technologies, High Throughput Screening, Proteomic Technologies and Others comprising Epigenetics, Metabolomics, Combinatorial Chemistry, Synthetic Biology, Systems Biology and Nanotechnology.

The global market value for the above mentioned technologies is analyzed in USD. High Throughput Screening accounts for a lion's share in global drug discovery technologies market with an expected share of about 30% in 2015 valued at \$18 billion followed by Bioanalytical Assays or instruments by about \$14 billion.

This 248 pages global market report includes 28 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 56 key global players and 67 major players across the United States – 41; Europe – 16; Asia-Pacific – 7; and Rest of World - 3. The research also provides the listing of the companies that are engaged in technology, contract research services and providers of discovery technologies. The global list of companies covers addresses, contact numbers and the website addresses of 186 companies.

For more information: [Drug Discovery Technologies – A Global Market Overview](#)

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USPTO Issues '979 Patent for Biohaven's Glutamate Modulating Agents to Treat GAD

Patents Issued for Suven's New Chemical Entities to treat Neurodegenerative Disorders

Japan Patent Office Approves Patent for C4XD's Technology

Additional Patents Issued on MorphoSys' Ylanthia in the US and in China

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Sareum Receives a Patent for its Kinase Inhibitors in Japan

USPTO Grants Patent for Prima BioMed's CVac

Japan Patent Office Decides to Issue Patent for Marina's SMARTICLES® Nucleic Acid Delivery Technology

USPTO Grants a Patent in Regulus' Sarnow Patent Estate on microRNA Therapies to Treat HCV

USPTO Grants Patent for Kadimastem's Cell Technology

USPTO Grants a Novel Patent in Alnylam's McSwiggen Patent Estate

Suven Receives Patent Approval in the US for its Major Depressive Disorder Drug

Notice of Allowance for Canadian Patent Granted to VistaGen

Issue of Patent on Broad Institute's New Gene-Editing Method

US Patent Office Grants Patent for HUB's Method of Growing Organoids

Dyadic Granted US Patent for High Throughput Screening

US Patent Granted to Theranostics Health

Reveleris Flash Chromatography System Receives Patent from the Australian Patent Office

Sareum Receives Patent for one of its CHK1 Cancer Programme-related Inventions in the US

Lpath's iSONEP Receives Patent from USPTO

KeyGene Obtains Patent for High Throughput Screening in the US

BioInvent's F.I.R.S.T. Drug Discovery Technology Gets Patent in the US

Plasticell Receives Additional Patents for its CombiCult® Cell Culture Technology in the US, Europe, Australia and Singapore

EntomoPharm Receives Patent for its BBB Insect Model in Europe

Summit Gets Patent for Utrophin Modulator SMT C1100 in the US

USPTO Grants Patent to OncoMed for Methods of Treating Cancer with its Antibody Vantictumab

Novel Component of Phylomer® Peptide Platform Patented by Phylogica for Advanced Cell-Penetrating Drug Discovery

COTI Receives Two Newly Granted Patents for its Lead Oncology Asset in the US

4. KEY GLOBAL PLAYERS

4-Antibody AG

Abbott Laboratories

Accelrys, Inc.

Affymetrix Inc.

Agilent Technologies Inc.

Asahi Kasei Pharma Corporation

Astrazeneca Plc

Aviva Biosciences Corp.

Bayer Healthcare AG

BD Biosciences

Beckman Coulter Inc.

Biacore International AB

Bioanalytical Systems, Inc.

Bio-Rad Laboratories, Inc.

Boehringer Ingelheim GmbH

Bristol-Myers Squibb Company

Caliper Life Sciences, Inc.

Caprion Proteomics, Inc.

Celera Corporation

Celgene Corporation

Charles River Laboratories International, Inc.

Compugen Ltd.

Decode Genetics, Inc.

EMD Millipore Corporation

Evotec AG

GE Healthcare Ltd.

Genedata AG

Hitgen Ltd

Hudson Robotics, Inc.

Illumina Inc.

Incyte Corporation

Isis Pharmaceuticals, Inc.

Kyowa Hakko Kirin Co., Ltd.

Luminex Corporation

Maxcyte, Inc

Merck & Co., Inc.

Millennium Pharmaceuticals, Inc.

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Molecular Devices, LLC
Molecular Discovery Ltd.
Molecular Discovery Systems Pty., Ltd.
New England Biolabs, Inc.
Novartis AG
Osiris Therapeutics Inc.
Perkinelmer, Inc.
Promega Corporation
Qiagen N.V.
Quantum Pharmaceuticals
Roche Holding AG
Shimadzu Corporation
Sigma-Aldrich Corporation
Sri Biosciences
Tecan Group Ltd.
The National Center for Drug Screening
Thermo Fisher Scientific Inc.
Viva Biotech Ltd
Waters Corp.

5. KEY BUSINESS TRENDS

Evotec Established Alliance with Eternigen on New Small Molecule Inhibitors Development
MRC Technology Partnered With Daiichi Sankyo to Discover New Drug Targets
Evotec, Debiopharm Group™ to Discover New Drugs to treat Cancer
Daiichi Sankyo Forms Alliance with UCSF on New Cures Development to Treat Neurodegenerative Diseases
Debut of a Synergetic Drug Discovery Project for 2014 by Daiichi Sankyo
Analgesic Drug Discovery and Development Collaboration Formed by Convergence and Evotec
MIT SBC, Pfizer Enter into a Three-Year Drug Discovery Research Alliance
Abide, Celgene Partners to Discover and Develop Novel Drugs to Treat Inflammation and Immunological Disorders
Novel Genetic Platform Having the Ability to Yield Natural Microbial Genomes
Johnson & Johnson Innovation Signs Novel Agreements with NEOMED and MaRS Innovation
Boehringer Ingelheim and Circuit Therapeutics Form Drug Discovery Research Pact for Three Years

Life Technologies and NCATS form RNAi Research Alliance to Enhance Novel Therapeutics Discovery
Novel Core Unit of USTAR and U of U Eases Pharmacological Therapeutic Development
JHL Biotech Inks Strategic Collaboration with Selexis to Develop Biologic Drugs
Bayer Offer Funding to the SGC for Expediting Drug Research
HitGen, the University of Manchester's Cancer Research UK Manchester Institute Drug Discovery Group and Cancer Research Technology Form Drug Discovery Pact
BioFocus, Boehringer Ingelheim Enter Into Drug Discovery Pact
Evotec Establishes Drug Discovery Alliance with Johnson & Johnson Innovation on AD Targets
Release of GE Healthcare Life Sciences' Novel Xuri™ Technology Family
4SC Discovery, CRELUX and AiCuris Form Drug Discovery Pact
Novel SLAP Technology for Drug Discovery Advancements
Inauguration of GE Healthcare Life Sciences Technology Laboratory at the UK's First Open Innovation Bioscience Campus
Debut of an "Open Innovation" Research Alliance by AstraZeneca and Taiwan's NRPB to Accelerate Drug Discovery
Asahi Kasei Pharma and Vernalis plc Collaborate to Discover Drugs for Autoimmune Diseases
Launch of Thermo Fisher Scientific's Novel Innovations at BioProcess International Conference and Exhibition
Adimab Establishes Alliance with Celgene on Multi-target Discovery
Eurofins Scientific, GE Healthcare Enter Pact on Drug Discovery Services
Debut of Boehringer Ingelheim and Polyphor into the Next Research Stage of their Alliance
Commercial Release of Agilent's RapidFire 365 High-Throughput Mass Spectrometry System
Zalicyus Plans to Advance Clinical Development of Z944
Debut of Kinexus' DrugKiNET KnowledgeBase
Evotec Establishes Alliance with Harvard University to Develop Novel Antibacterial Agents
UCSF Turns to be the First Partner of Pfizer's CTI in Both Small-Molecule and Biologics Discovery
In-House Development of Various Novel Antiviral Drugs from Achillion

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Launch of Thermo Fisher Scientific's Drug Discovery and Biopharma Production Innovations

Sareum Partners with SRI International for Advancing the Clinical Development of Tyrosine Kinase 2 Small Molecule Drug Discovery Program

Launch of Hudson Robotics' High Efficiency Screening, an Advanced Drug Discovery Technology

Accelrys Insight and Accelrys Insight for Excel Drug Discovery Softwares from Accelrys, Inc

Renewal of Evotec and Genentech's Drug Discovery Collaboration

Alchemia, AstraZeneca Form Multi-Target Drug Discovery Pact

RaQualia Establishes Research Alliance with Interprotein to Discover PPI Inhibitor

Collaborative Effort of Evotec and Ono Yields Novel Compounds for Preclinical Development

Galapagos Takeover Cangenix Assets

EMD Millipore's Novel Genomic Biomarker Services

Marketing of an Advanced Metabolite-Identification Platform by Agilent and Molecular Discovery

QuantiGene® ViewRNA Assay Platform-based Novel Cancer Biomarker Tests Co-developed by Affymetrix and MGH

Numerate and Merck Partnered to Discover Drug Leads for Cardiovascular Disease Target

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Abbott Laboratories

Accelrys, Inc.

Affymetrix Inc.

Agenus Inc.

Agilent Technologies Inc.

Albany Molecular Research, Inc.

Arqule Inc.

Aviva Biosciences Corp.

BD Biosciences

Beckman Coulter Inc.

Bioanalytical Systems, Inc.

Bio-Rad Laboratories, Inc.

Biovision, Inc.

Bristol-Myers Squibb Company

Bruker Corporation

Caliper Life Sciences, Inc.

Capital Genomix, Inc.

Celera Corporation

Celgene Corporation

Charles River Laboratories International, Inc.

Discoverx Corporation

Discovery Genomics, Inc.

EMD Millipore Corporation

Hudson Robotics, Inc.

Illumina Inc.

Incyte Corporation

Isis Pharmaceuticals, Inc.

Life Technologies Corporation

Luminex Corporation

Maxcyte, Inc

Merck & Co., Inc.

Millennium Pharmaceuticals, Inc.

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Molecular Devices, LLC
New England Biolabs, Inc.
Osiris Therapeutics Inc.
Perkinelmer, Inc.
Promega Corporation
Sigma-Aldrich Corporation
SRI Biosciences
Thermo Fisher Scientific Inc.
Waters Corp.

2. EUROPE

2.1 European Market Overview by Technology

2.2 Major Market Players

4-Antibody AG (Switzerland)
Astrazeneca Plc (United Kingdom)
Bayer Healthcare AG (Germany)
Biacore International AB (Sweden)
Biofocus Dpi, Ltd (United Kingdom)
Boehringer Ingelheim GmbH (Germany)
Decode Genetics, Inc. (Iceland)
Evotec AG (Germany)
GE Healthcare Ltd. (United Kingdom)
Genedata AG (Switzerland)
Molecular Discovery Ltd. (Italy)
Novartis AG (Switzerland)
Qiagen N.V. (The Netherlands)
Quantum Pharmaceuticals (Russia)
Roche Holding AG (Switzerland)
Tecan Group Ltd. (Switzerland)

3. ASIA-PACIFIC

3.1 Asia-Pacific Market Overview by Technology

3.2 Major Market Players

Asahi Kasei Pharma Corporation (Japan)
Hitgen Ltd (China)
Kyowa Hakko Kirin Co., Ltd. (Japan)
Molecular Discovery Systems Pty., Ltd. (Australia)
Shimadzu Corporation (Japan)

The National Center for Drug Screening (China)
Viva Biotech Ltd (China)

4. REST OF WORLD

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Compugen Ltd. (Israel)
Pluristem Therapeutics Inc. (Israel)

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For more information please visit: [Drug Discovery Technologies – A Global Market Overview](#)