

Synthetic Biology – A Global Market Overview

“The report reviews, analyzes and projects the global market for Synthetic Biology for the period 2014-2023. Market for Synthetic Biology product types analyzed in this study include Oligonucleotides, Enzymes, Chassis Organism and others (Cloning Technology Kits, Xeno Nucleic Acids etc). The Synthetic Biology Technologies analyzed in this report comprise Genome Engineering, DNA Sequencing, Biological Components and Integrated Systems and other technologies that constitute Pathway Engineering, Bioinformatics, Microfluidics etc. The report also encompasses the market analysis for Synthetic Biology Applications such as Medical, Industrial, Environmental and other Applications that consist Agriculture, Biomaterials etc.”

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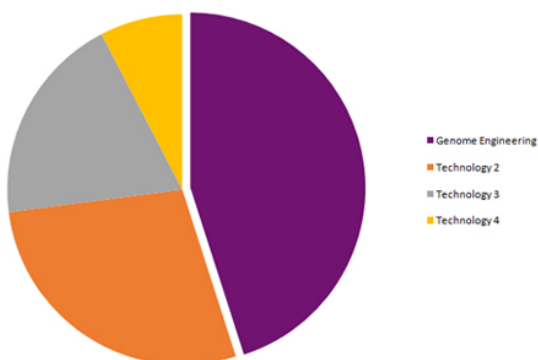
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Report Synopsis

The major factors propelling growth of Synthetic Biology market include declining prices of DNA sequencing and synthesis, materialization of innovative technologies, increased funding from government and private bodies, growing demand for better-quality drugs and vaccines and advancements in the area of molecular biology, to name a few. However, the factors responsible for hampering growth of Synthetic Biology include expensive research protocols, biological safety, bio security concerns, ethical issues and cuts in reimbursement leading to pricing pressure.

Genome Engineering represents the single largest technology in the global market for Synthetic Biology, demand for which is estimated at US\$2.9 billion (45% share) in 2017 and is projected to reach US\$9.4 billion by 2023. During period 2017-2023, the market for Biological Components and Integrated Systems is slated to record the fastest CAGR of 24.8%.

Global Synthetic Biology Market by Technology 2017



Source: Industry Experts, Inc. <http://industry-experts.com>

Research Findings & Coverage

- Synthetic Biology global market analyzed in this report with respect to synthetic biology prominent technologies, key products and major applications
- The report exclusively analyzes each product type, technology and applications of synthetic biology by major geographic region

- Synthetic Biology Aids in Creating Therapeutic Bacteria
- Application of Synthetic Biology to Generate Superior Biofactories
- Residual Synthetic Microbes to Formulate Fertilizer
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 36
- The industry guide includes the contact details for 233 companies

Product Outline

The report analyzes the market for the technologies of Synthetic Biology including:

- Genome Engineering
- DNA Sequencing
- Biological Components and Integrated Systems
- Others

The study explores the market for product types of Synthetic Biology comprise the following:

- Oligonucleotides
- Enzymes
- Chassis Organism
- Others

Applications of Synthetic Biology studied in the report include the following:

- Medical
- Industrial
- Environmental
- Others

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Synthetic Biology market for the period 2014-2023 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2023

Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (The United Kingdom, Germany, France, Italy, Spain and Rest of Europe)
- **Asia-Pacific** (Japan, China, Australia, India and Rest of Asia-Pacific)
- **Rest of World** (Brazil, Israel and Other ROW)

SAMPLE COMPANY PROFILE

ATUM (UNITED STATES)

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 Fax: +1 650 618 2697
 Website: www.atum.bio

Business Overview

ATUM, previously known as DNA2.0 with headquarter in Newark, California, is recognized as the leading service provider in the field of synthetic biology research. The products, expertise and services offered by the company enables the global researches in accomplishing their goals. The tools and services offered by the company assist in advancing the conversion of biology to and engineering field via discovery sciences. The entity has developed, ProteinGPS proprietary technology, an exclusive protein engineering platform technology on the basis of machine studying and design of experiment (DoE). The technology utilizes the similar mega dimensional experimental optimization protocol presently employed in gasoline formulation, web based advertising and stock market funding. The technology is dependable on DoE to evaluate the number of information rich nodes present in the appropriate place, gene production needed to construct that particular sequence and the machine study to evaluate the required solution.

Tools

Tool	Description
Gene designer 2.0	A perfect software to construct sequences from scratch without any restrictions and the full length of tools assists in accomplishment of inventive design
CRISPR gRNA Designer	Constructs gRNA to proficiently alter customized targets while decreasing the off target consequences.
DNA Atlas	Effortlessly introduces client's complete constructs. Transfers features and primers in order to analyze them in the sequence. Robust facility to arrange and evaluate client's sequence by employing BLAST derived sequence investigation.
Bioinformatics Toolbox	The bioinformatics toolbox includes compilation of bioinformatics tools essential to investigate DNA and protein sequences for free.

Synthetic Biology Services

Service offered	Description
Cell line Development	To offer the cell line production services, the company units its codon optimization algorithms, secretion signal toolbox and stretchy expression vector arrangements with the huge productivity CHO K cell lines and Leap-in®transposase system.
Protein Expression	Encompasses high throughput protein expression, excessive protein expression, demanding protein expression and antibody expression solutions.
Gene Synthesis	Services involves vectors, rush services, codon optimization, extensive groundwork, variant production and huge constructs synthesis.

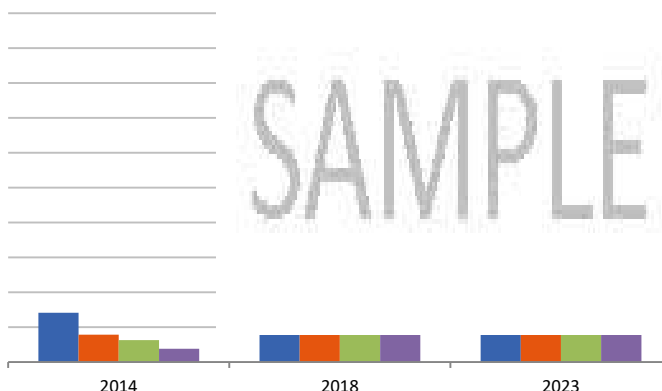
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SAMPLE TABLE/CHART

Glance at 2018 Global Synthetic Biology Market Share by Geographic Region – North America, Europe, Asia-Pacific and Rest of World



Asia-Pacific Synthetic Biology Market Analysis (2014-2023) by Product – Oligonucleotides, Enzymes, Chassis Organism and Other in USD Million



KEY PLAYERS PROFILED

- Amyris, Inc.
- ATUM
- Codexis, Inc.
- DSM Sinochem Pharmaceuticals
- E. I. du Pont de Nemours and Company (DuPont)
- Evolva SA
- GENEWIZ, Inc
- Genscript Corporation
- Green Biologics Ltd.
- Integrated DNA Technologies, Inc.
- Intrexon Corporation
- LC Sciences LLC
- Millipore Sigma
- Novozymes
- Qteros
- Renewable Energy Group, Inc.
- Synthetic Biologics, Inc.
- Synthetic Genomics
- Thermo Fisher Scientific, Inc.

.....more

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE 1

1. INTRODUCTION1

1.1 Product Outline.....	4
1.1.1 Synthetic Biology – Objectives.....	4
1.1.2 Dissimilarities between the Synthetic Biology and System Biology.....	4
1.1.3 Synthetic Biology – An Evolution.....	5
1.1.4 Dissimilarities between Synthetic Biology and Genetic Engineering.....	6
1.1.5 Synthetic Biology Product Types.....	6
1.1.5.1 Oligonucleotides.....	6
1.1.5.2 Enzymes.....	7
1.1.5.3 Chassis Organism.....	7
1.1.5.4 Xeno Nucleic Acids.....	8
1.1.5.5 Cloning Technology Kits.....	8
1.1.6 Technologies of Synthetic Biology.....	8
1.1.6.1 Genome Engineering.....	8
1.1.6.2 DNA Sequencing.....	9
1.1.6.3 Biological Components and Integrated Systems.....	9
1.1.6.4 Pathway Engineering.....	9
1.1.6.5 Bioinformatics.....	9
1.1.6.6 Microfluidics.....	10
1.1.7 Synthetic Biology Applications.....	10
1.1.7.1 Medical.....	10
1.1.7.1.1 Drug Discovery.....	10
1.1.7.1.2 Vaccines – Disease Avoidance.....	11
1.1.7.1.3 Cancer treatment.....	11
1.1.7.2 Industrial.....	12
1.1.7.2.1 Biofuels.....	12
1.1.7.2.2 Bioplastics.....	12
1.1.7.2.3 Bio Isoprene.....	12
1.1.7.2.4 1,3-propanediol (1,3-PDO).....	13
1.1.7.3 Environmental.....	13
1.1.7.4 Agriculture.....	13
1.1.7.4.1 Production of Plants Tolerable to Abiotic Stress and Drought.....	14
1.1.7.4.2 Minimal usage of fertilizers and Pesticides.....	14
1.1.7.4.3 Disease Tolerance Plants.....	14
1.1.7.4.4 Molecular Farming.....	14
1.1.7.5 Promoter Micro Organisms for Deep Space Operations.....	15
1.1.7.6 Bio-based Production for In-space Development.....	15
1.1.7.7 Synthetic Biology for Biomaterial Generation.....	15
1.1.7.8 Food.....	16
1.1.7.9 Cement Production.....	16
1.1.7.10 Silk Thread Fabrication.....	16

2. KEY MARKET TRENDS.....17

2.1 Synthetic Biology Aids in Creating Therapeutic Bacteria.....	17
2.2 Development of Advanced Generation of Anti-venoms using Synthetic Bacteria.....	17
2.3 Application of Synthetic Biology to Generate Superior Biofactories.....	18
2.4 Synthetic Microbes for Fashion Purpose.....	18
2.5 Residual Synthetic Microbes to Formulate Fertilizer.....	18

3. KEY GLOBAL PLAYERS.....19

Amyris, Inc. (United States).....	19
ATUM (United States).....	20
Codexis, Inc. (United States).....	22
DSM Sinochem Pharmaceuticals (Singapore).....	23
E. I. du Pont de Nemours and Company (DuPont) (US).....	24
Evolva SA (Switzerland).....	25
GENEWIZ, Inc (United States).....	26
Genscript Corporation (United States).....	27
Green Biologics Ltd. (The United Kingdom).....	28

Integrated DNA Technologies, Inc. (United States).....	29
Intrexon Corporation (United States).....	30
LC Sciences LLC (United States).....	32
Novozymes (Denmark).....	33
Qteros (United States).....	34
Renewable Energy Group, Inc. (United States).....	35
Millipore Sigma (United States).....	36
Synthetic Biologics, Inc. (United States).....	37
Synthetic Genomics (United States).....	38
Thermo Fisher Scientific, Inc. (United States).....	40

4. KEY BUSINESS TRENDS41

Acquisition of Integrated DNA Technologies by Danaher.....	41
TeselaGen and Arzeda Collaborates to Improve Biodesign Technologies.....	41
Addition of Novel Yeast Strain to Bioenergy Business of Novozymes.....	41
Acquisition of Engineered Bacteriophage Assets from Synthetic Genomics by C3J.....	41
Launch of Pharma Grade Non Animal based Neossance Squalane USP by Aprinnova.....	42
Termination of Amyris's Production Center Sale Located at Brazil.....	42
TSRI and Synthorx Collaborates to Design the Foremost Semi Synthesized Organism.....	42
Twist Bioscience Offers 1 billion Base Pairs of Synthetic DNA to Ginkgo.....	43
Nestle Enters in to collaboration Agreement with Codexis to Access Its Technology.....	43
Amyris Signed a Contract with DSM to Develop and Synthesis Human Nutritional Component.....	43
Gevo Partners with Los Alamos to Built Missile Fuel.....	44
National Labs of Department of Energy and Gevo Collaborates to Enhance ETO Catalyst Activity.....	44
Gevo to Distribute Jet Fuel to Virgin Australia.....	44
Release of OPTIMASH® AD-300 BY DuPont Industrial.....	45
GeneWorks' Oligo Generating Business Acquired by Integrated DNA Genomics.....	45
Development of Next Generation Vaccines and Therapies by Arcurus and Synthetic Genomics.....	45
Synthetic Genomics and Ceva Join forces to Create and Distribute Next Generation Animal Vaccines.....	45
Synthetic Genomics and ExxonMobil Join forces for Algae Biofuel Exploration.....	46
Joint Venture of Bayer and Ginkgo to Produce Nitrogen Fertilizer Manufacturing Plants.....	46
DSM and Amyris Signed a Second Treaty to Develop and Produce Vitamin A.....	46
Yield10 Bioscience Partners with Canada's National Research Council to Enhance Wheat Crop.....	47
TeselaGen and Dow AgroSciences Join Forces to Widen State-of-Art Biodesign Platform.....	47
Amyris and DSM Entered a Deal to Develop and Synthesize a Food and Nutritional Element.....	47
Bock and DuPont Enters into an Alliance to Distribute Biogas Enzymes.....	48
Extension of Rapidly acting Phytase Product Portfolio of DuPont in Europe.....	48
Johnson Matthey and Intrexon Partners to Produce API of Peptide Origin Through Fermentation.....	48
BioBricks and Twist together Distributes ten thousand genes to SB Society.....	49
Acquisition of Worldwide Sorghum Collection of Nidera Seeds by Chromatin.....	49
Gevo Enters into an Exclusive Alliance with HCS to Distribute Renewable Isooctane.....	49
Launch of DuPont™ Xtra® XBPHY by DuPont to Enhance Lucrative Egg Generation.....	49
Editas and Allergan signed a Contract to design and create CRISPR Genome Editing Medicine.....	50
A Subsequent Multiple Year Contract Signed between Codexis and Tate & Lyle.....	50
Metabolix is now Yield10 BioScience.....	50
Release of Vmax™ Express by Synthetic Genomics to Aid Biotech Industry.....	50
Johnson & Johnson and Synthetic Genomics Associates to Create New Therapeutics.....	51

Acquisition of Gen9 by a Boston Based Conglomerate.....	51
Establishment of a Joint Venture by Amyris and NIKKOL GROUP.....	51
DNA2.0, Inc Changes the Name to ATUM.....	52
MAIVIT and DuPont Enters into an Collaboration to Distribute Biogas Enzymes.....	52
Amyris Accomplishes a Vital Breakthrough in Drug Discovery Partnership.....	52
Chromatin and Dow Signs an Absolute Monetary License Contract for an Exceptional Sorghum Trait.....	53
Introduction of Earliest Cellulosic Renewable Jet Fuel by Gevo for Commercial Airline Flights.....	53
License Contract signed between ERS and Evolva.....	53
Absolute Transfer of CodeEvolver® Technology from Codexis to Merck.....	54
Amyris Partners with one of the Leading Pharmaceutical Entity to Discover a Biosynthetic Drug.....	54
Release of Novel CRISPR Synthetic RNA Service by GenScript.....	54
Acquisition of Organobalance by Novozymes to Reinforce its Presence in Microbial services.....	55
Amyris Gains a 3-year, Multiple Million \$ Agreement from United States Department of Energy.....	55
DuPont Industrial releases novel Enzyme Product Essential for Biogas Industry.....	55
Dong and Novozymes Join Forces to Convert Domestic Waste into Green Energy.....	56
Acquisition of Kirkland Seed by Chromatin.....	56
Gevo Enters into a Contract with Musket to distribute Isobutanol for Mix Up.....	56
Licensing of CodeEvolver® Technology to GSK from Codexis.....	57
Chromatin and Zaad Partners to Manufacture and Supply Sorghum Seeds in Africa.....	57
Acquisition of MIGS by DNA2.0 to Append Antibody Synthesis Abilities.....	57
Establishment of a New European Office at Basel by DNA2.0.....	58
Expansion of SureVector Cloning System by Agilent in Association with Eurofins.....	58
Genscript Introduces Foremost Marketable CRISPR based Yeast Genome Editing Solutions.....	58
Release of Saphera by Novozymes.....	59
Take Over of Majestic Semillas by Chromatin.....	59
Versalis and Genomatica Join Forces to Generate Bio Rubber from Carbohydrates.....	59
A multiple-Year Expansion Agreement signed between Codexis and Merck to Distribute Enzymes.....	60
ValvTect and Gevo Join Forces to Supply Marinas with Renewable Isobutanol Fuel Mix Up.....	60
Acquisition of Biotechnology Possessions from Dyadic by DuPont Industrial.....	60
DSM Personal Introduces a Novel Peptide Complex SYN-EYE.....	60
Amyris at its Brazil Plant is Successful in Synthesizing Third Exclusive Fermentation Product.....	61
Introduction of Novel Enzymes for Ethanol.....	61
Launch of Extenda by Novozyme.....	61
Introduction of Gibson Assembly® site Directed Mutagenesis Kit by Synthetic Genomics.....	61
Major Biopharma Firm Join Forces with Codexis to for Drug Development.....	62
Technology Transfer and Authorization Contract Signed between Merck and Codexis.....	62
Synthetic Biologics and Intrexon Join Forces to Create New Biotherapeutics Against Phenylketonuria.....	62
Launch of Gibson Assembly® Ultra Kit by SGI-DNA.....	63

5. GLOBAL MARKET OVERVIEW64

5.1 Global Synthetic Biology Market Overview by Product Type.....	65
5.1.1 Global Synthetic Biology Product Type Market Overview by Geographic Region.....	67
5.1.1.1 Oligonucleotides.....	67
5.1.1.2 Enzymes.....	69
5.1.1.3 Chassis Organism.....	71
5.1.1.4 Other Product Types.....	73

5.2 Global Synthetic Biology Market Overview by Technology 75

5.2.1 Global Synthetic Biology Technology Market Overview by Geographic Region 77

5.2.1.1 Genome Engineering 77

5.2.1.2 DNA Sequencing 79

5.2.1.3 Biological Components and Integrated Systems 81

5.2.1.4 Other Technologies for Synthetic Biology 83

5.3 Global Synthetic Biology Market Overview by Application 85

5.3.1 Global Synthetic Biology Application Market Overview by Geographic Region 87

5.3.1.1 Medical Applications 87

5.3.1.2 Industrial Applications 89

5.3.1.3 Environmental Applications 91

5.3.1.4 Other Applications 93

PART B: REGIONAL MARKET PERSPECTIVE ... 95

REGIONAL MARKET OVERVIEW 97

1. NORTH AMERICA 97

1.1 North American Synthetic Biology Market Overview by Geographic Region 98

1.2 North American Synthetic Biology Market Overview by Product Type 100

1.2.1 North American Synthetic Biology Product Type Market Overview by Geographic Region 102

1.2.1.1 Oligonucleotides 102

1.2.1.2 Enzymes 104

1.2.1.3 Chassis Organism 106

1.2.1.4 Other Product Types 108

1.3 North American Synthetic Biology Market Overview by Technology 110

1.3.1 North American Synthetic Biology Technology Market Overview by Geographic Region 112

1.3.1.1 Genome Engineering 112

1.3.1.2 DNA Sequencing 114

1.3.1.3 Biological Components and Integrated Systems 116

1.3.1.4 Other Technologies for Synthetic Biology .. 118

1.4 North American Synthetic Biology Market Overview by Application 120

1.4.1 North American Synthetic Biology Application Market Overview by Geographic Region 122

1.4.1.1 Medical Applications 122

1.4.1.2 Industrial Applications 124

1.4.1.3 Environmental Applications 126

1.4.1.4 Other Applications 128

1.5 Major Market Players 130

Agrivida, Inc. (United States) 130

Algenol Biotech (United States) 131

Amyris, Inc. (United States) 132

ATUM (United States) 133

Blue Heron Biotech, LLC. (United States) 134

Chromatin, Inc. (United States) 135

Codexis, Inc. (United States) 136

E. I. du Pont de Nemours and Company (DuPont) (US) .. 137

GENEWIZ, Inc (United States) 138

Genomatica, Inc. (United States) 139

Genscript Corporation (United States) 140

Gevo, Inc. (United States) 141

Integrated DNA Technologies, Inc. (United States) 142

Intrexon Corporation (United States) 143

LC Sciences LLC (United States) 145

Mascoma Corporation (United States) 146

New England Biolabs (United States) 147

Qteros (United States) 148

Renewable Energy Group, Inc. (United States) 149

Millipore Sigma (United States) 150

Synthetic Biologics, Inc. (United States) 151

Synthetic Genomics (United States) 152

Synthorx, Inc. (United States) 154

TeselaGen Biotechnology (United States) 154

Thermo Fisher Scientific, Inc. (United States) 155

Twist Bioscience Corporation (United States) 156

Yield10 Bioscience (United States) 157

1.6 Country-wise Analysis of North American Synthetic Biology Market 158

1.6.1 The United States 158

1.6.1.1 United States Synthetic Biology Market Overview by Product Type 159

1.6.1.2 United States Synthetic Biology Market Overview by Technology 161

1.6.1.3 United States Synthetic Biology Market Overview by Application 163

1.6.2 Canada 165

1.6.2.1 Canadian Synthetic Biology Market Overview by Product Type 166

1.6.2.2 Canadian Synthetic Biology Market Overview by Technology 168

1.6.2.3 Canadian Synthetic Biology Market Overview by Application 170

1.6.3 Mexico 172

1.6.3.1 Mexican Synthetic Biology Market Overview by Product Type 173

1.6.3.2 Mexican Synthetic Biology Market Overview by Technology 175

1.6.3.3 Mexican Synthetic Biology Market Overview by Application 177

2. EUROPE 179

2.1 European Synthetic Biology Market Overview by Geographic Region 180

2.2 European Synthetic Biology Market Overview by Product Type 182

2.2.1 European Synthetic Biology Product Type Market Overview by Geographic Region 184

2.2.1.1 Oligonucleotides 184

2.2.1.2 Enzymes 186

2.2.1.3 Chassis Organism 188

2.2.1.4 Other Product Types 190

2.3 European Synthetic Biology Market Overview by Technology 192

2.3.1 European Synthetic Biology Technology Market Overview by Geographic Region 194

2.3.1.1 Genome Engineering 194

2.3.1.2 DNA Sequencing 196

2.3.1.3 Biological Components and Integrated Systems 198

2.3.1.4 Other Technologies for Synthetic Biology .. 200

2.4 European Synthetic Biology Market Overview by Application 202

2.4.1 European Synthetic Biology Application Market Overview by Geographic Region 204

2.4.1.1 Medical Applications 204

2.4.1.2 Industrial Applications 206

2.4.1.3 Environmental Applications 208

2.4.1.4 Other Applications 210

2.5 Major Market Players 212

ATG:biosynthetics GmbH (Germany) 212

Evolva SA (Switzerland) 213

Green Biologics Ltd. (The United Kingdom) 214

Novozymes (Denmark) 215

PROKARIUM (The United Kingdom) 215

Spiber Technologies AB (Sweden) 216

2.6 Country-wise Analysis of European Synthetic Biology Market 217

2.6.1 The United Kingdom 217

2.6.1.1 United Kingdom Synthetic Biology Market Overview by Product Type 218

2.6.1.2 United Kingdom Synthetic Biology Market Overview by Technology 220

2.6.1.3 United Kingdom Synthetic Biology Market Overview by Application 222

2.6.2 Germany 224

2.6.2.1 German Synthetic Biology Market Overview by Product Type 225

2.6.2.2 German Synthetic Biology Market Overview by Technology 227

2.6.2.3 German Synthetic Biology Market Overview by Application 229

2.6.3 France 231

2.6.3.1 French Synthetic Biology Market Overview by Product Type 232

2.6.3.2 French Synthetic Biology Market Overview by Technology 234

2.6.3.3 French Synthetic Biology Market Overview by Application 236

2.6.4 Italy 238

2.6.4.1 Italian Synthetic Biology Market Overview by Product Type 239

2.6.4.2 Italian Synthetic Biology Market Overview by Technology 241

2.6.4.3 Italian Synthetic Biology Market Overview by Application 243

2.6.5 Spain 245

2.6.5.1 Spanish Synthetic Biology Market Overview by Product Type 246

2.6.5.2 Spanish Synthetic Biology Market Overview by Technology 248

2.6.5.3 Spanish Synthetic Biology Market Overview by Application 250

2.6.6 Rest of Europe 252

2.6.6.1 Rest of Europe Synthetic Biology Market Overview by Product Type 253

2.6.6.2 Rest of Europe Synthetic Biology Market Overview by Technology 255

2.6.6.3 Rest of Europe Synthetic Biology Market Overview by Application 257

3. ASIA-PACIFIC 259

3.1 Asia-Pacific Synthetic Biology Market Overview by Geographic Region 260

3.2 Asia-Pacific Synthetic Biology Market Overview by Product Type 262

3.2.1 Asia-Pacific Synthetic Biology Product Type Market Overview by Geographic Region 264

3.2.1.1 Oligonucleotides 264

3.2.1.2 Enzymes 266

3.2.1.3 Chassis Organism 268

3.2.1.4 Other Product Types 270

3.3 Asia-Pacific Synthetic Biology Market Overview by Technology 272

3.3.1 Asia-Pacific Synthetic Biology Technology Market Overview by Geographic Region 274

3.3.1.1 Genome Engineering 274

3.3.1.2 DNA Sequencing 276

3.3.1.3 Biological Components and Integrated Systems. 278

3.3.1.4 Other Technologies for Synthetic Biology .. 280

3.4 Asia-Pacific Synthetic Biology Market Overview by Application 282

3.4.1 Asia-Pacific Synthetic Biology Application Market Overview by Geographic Region 284

3.4.1.1 Medical Applications 284

3.4.1.2 Industrial Applications 286

3.4.1.3 Environmental Applications 288

3.4.1.4 Other Applications 290

3.5 Major Market Players 292

Bioneer Corporation (South Korea) 292

DSM Sinochem Pharmaceuticals (Singapore) 292

Sea6 Energy Pvt Ltd (India) 293

3.6 Country-wise Analysis of Asia-Pacific Synthetic Biology Market	294	3.6.5.2 Rest of Asia-Pacific Synthetic Biology Market Overview by Technology.....	325	4.5 Country-wise Analysis of Rest of World Synthetic Biology Market	362
3.6.1 Japan	294	3.6.5.3 Rest of Asia-Pacific Synthetic Biology Market Overview by Application.....	327	4.5.1 Brazil.....	362
3.6.1.1 Japanese Synthetic Biology Market Overview by Product Type.....	295	4. REST OF WORLD.....	329	4.5.1.1 Brazilian Synthetic Biology Market Overview by Product Type.....	363
3.6.1.2 Japanese Synthetic Biology Market Overview by Technology.....	297	4.1 Rest of World Synthetic Biology Market Overview by Geographic Region.....	330	4.5.1.2 Brazilian Synthetic Biology Market Overview by Technology.....	365
3.6.1.3 Japanese Synthetic Biology Market Overview by Application.....	299	4.2 Rest of World Synthetic Biology Market Overview by Product Type.....	332	4.5.1.3 Brazilian Synthetic Biology Market Overview by Application.....	367
3.6.2 China	301	4.2.1 Rest of World Synthetic Biology Product Type Market Overview by Geographic Region	334	4.5.2 Israel	369
3.6.2.1 Chinese Synthetic Biology Market Overview by Product Type	302	4.2.1.1 Oligonucleotides	334	4.5.2.1 Israeli Synthetic Biology Market Overview by Product Type	370
3.6.2.2 Chinese Synthetic Biology Market Overview by Technology	304	4.2.1.2 Enzymes	336	4.5.2.2 Israeli Synthetic Biology Market Overview by Technology	372
3.6.2.3 Chinese Synthetic Biology Market Overview by Application.....	306	4.2.1.3 Chassis Organism	338	4.5.2.3 Israeli Synthetic Biology Market Overview by Application	374
3.6.3 Australia	308	4.2.1.4 Other Product Types.....	340	4.5.3 Other Rest of World	376
3.6.3.1 Australian Synthetic Biology Market Overview by Product Type.....	309	4.3 Rest of World Synthetic Biology Market Overview by Technology.....	342	4.5.3.1 Other ROW Synthetic Biology Market Overview by Product Type.....	377
3.6.3.2 Australian Synthetic Biology Market Overview by Technology.....	311	4.3.1 Rest of World Synthetic Biology Technology Market Overview by Geographic Region	344	4.5.3.2 Other ROW Synthetic Biology Market Overview by Technology.....	379
3.6.3.3 Australian Synthetic Biology Market Overview by Application.....	313	4.3.1.1 Genome Engineering	344	4.5.3.3 Other ROW Synthetic Biology Market Overview by Application.....	381
3.6.4 India	315	4.3.1.2 DNA Sequencing	346	PART C: GUIDE TO THE INDUSTRY.....	383
3.6.4.1 Indian Synthetic Biology Market Overview by Product Type	316	4.3.1.3 Biological Components and Integrated Systems.....	348	1. NORTH AMERICA	383
3.6.4.2 Indian Synthetic Biology Market Overview by Technology	318	4.3.1.4 Other Technologies for Synthetic Biology ..	350	2. EUROPE.....	389
3.6.4.3 Indian Synthetic Biology Market Overview by Application.....	320	4.4 Rest of World Synthetic Biology Market Overview by Application.....	352	3. ASIA-PACIFIC.....	391
3.6.5 Rest of Asia-Pacific.....	322	4.4.1 Rest of World Synthetic Biology Application Market Overview by Geographic Region	354	4. REST OF WORLD	392
3.6.5.1 Rest of Asia-Pacific Synthetic Biology Market Overview by Product Type.....	323	4.4.1.1 Medical Applications.....	354	PART D: ANNEXURE	393
		4.4.1.2 Industrial Applications	356	1. RESEARCH METHODOLOGY	393
		4.4.1.3 Environmental Applications	358	2. FEEDBACK	395
		4.4.1.4 Other Applications	360		

About Industry Experts

Industry Experts’ market research, backed by years of experience and an analytical team dedicated to providing the most optimal business solutions, has been specifically designed to provide a variety of benefits, both current and future. Our leading-edge publications make the life easy for corporate strategists, investors, analysts and researchers, startups, consultants, financial and banking executives, academicians and many more. The company also provides customized research reports to cater the needs of the industry.

Business intelligence provides the critical link between comprehending prevailing market conditions and devising strategies to maximize parameters, such as revenues, profits and return on investment in order to gain market share. The significance of market research can be largely understood through the range of factors that impact businesses. These can comprise market size (current and projected), geographic market reach and demand and supply scenario, to name a few. Our ongoing quest to collect up to date and accurate information by conducting online surveys, personal interviews, taking the opinions of senior level executives will enable us to serve our clients better in every possible aspect.

More about Industry Experts



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