

Biosimulation Market by Offering (Module, Integrated Platform), Application (Disease Modeling, PBPK, PKPD, Trial Simulation, Manufacturing & Supply chain: planning & forecasting), Indication (Cancer, CNS, CVS), End User, & Region - Global Forecast to 2029

Market Report | 2025-02-01 | 386 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The biosimulation market is projected to reach USD 9.18 billion by 2029 from USD 4.24 billion in 2024, at a CAGR of 16.7% from 2024 to 2029. Increasing need for cost and time reduction in the drug development process has been one of the major drivers in the adoption of biosimulation tools. These tools predict how the drugs will behave inside the human body, potentially minimizing the requirements of extensive clinical trials. But there are some restraining factors in the market; the cost of biosimulation technologies is discouragingly high and thus, prohibitive to small companies and the academic community.

"Drug Discovery held the largest market share in the biosimulation market in 2023, by application."

The biosimulation market is segmented based on application into drug discovery, drug development, disease modelling, manufacturing & supply chain management and other applications. The drug discovery segment held the largest market share in 2023, since it plays a vital role in accelerating and enriching early stages of pharmaceutical research. The tool created by biosimulation makes it possible for the researchers to simulate drug behavior at the molecular level, predict biological target interaction, even identify potential drug candidates before they reach the costly phases of preclinical and clinical trial stages. It reduces both the time and the cost incurred during the process of drug development.

"By deployment model, the cloud-based model segment is expected to register the fastest growth over the forecast period."

By deployment model, the biosimulation market is divided into on-premises, cloud-based and hybrid model. The cloud-based segment is projected to be the fastest-growing segment over the forecast period. Cloud-based platforms are much more flexible and scalable and make very significant computational resources available at the point when they are needed to run complex biosimulations. This flexibility makes cloud models highly cost-effective, particularly for smaller biotech firms and academic

Scotts International. EU Vat number: PL 6772247784 tel. 0048 603 394 346 e-mail: support@scotts-international.com

institutions that would lack the infrastructure for high-performance computing.

"Asia Pacific is estimated to register the highest CAGR over the forecast period."

The biosimulation market is geographically segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. The Asia Pacific biosimulation market is projected to register highest CAGR during the forecast period. The growth of this region is due to an aggressive build-out of the pharmaceutical and biotechnology industry in this region, especially in China, India, and South Korea, where large investments are committed to drug discovery and development. Markets in this region increasingly embrace sophisticated technology, such as biosimulation, to rationalize their R&D processes, reduce costs, and accelerate their time-to-market for new drugs.

Breakdown of supply-side primary interviews by company type, designation, and region:

- By Company Type: Tier 1 (40%), Tier 2 (35%), and Tier 3 (25%)
- By Designation: Managers (40%), Directors (35%), and Others (25%)
- By Region: North America (40%), Europe (30%), Asia Pacific (20%), Latin America (5%) and Middle East Africa (5%)

List of Companies Profiled in the Report:

- o
 Certara USA. (US)
- o∏Simulations Plus. (US)
- o

 Dassault Systemes (France)
- o

 Schrodinger, Inc. (US)
- o

 Advanced Chemistry Development, Inc. (Canada)
- o
 Chemical Computing Group ULC. (Canada)
- o∏Rosa & Co. LLC. (US)
- o

 Genedata AG (US)
- o
 Physiomics Plc (United Kingdom)
- o∏In Silico Biosciences. (US)
- o∏Allucent. (US)
- o∏OpenEye, Cadence Molecular Sciences. (US)
- o
 ||Cellworks Group, Inc. (US)
- o∏VeriSIM Life. (US)
- o

 ☐Netabolics SRL (Italy)
- o
 Charnwood Discovery (United Kingdom)
- $o \square The MathWorks, Inc. (US)$
- o[ANSYS, Inc (US)
- o[Instem Group of Companies (United Kingdom)
- o∏Insilico Medicine (US)
- o[SCM Software Chemistry & Materials (Netherlands)
- o∏BioSymetrics, Inc. (Canada)
- o

 Atomwise Inc. (US)
- o∏insitro. US)
- o
 ☐ Clinithink. (US)

Research Coverage:

This research report categorizes the biosimulation market by offerings (software and services), application (drug discovery, drug development, disease modelling, manufacturing & supply chain and other applications), therapeutic area (oncology, cardiovascular disease, neurological disorders, infectious disease, and others), revenue model (license-based model, subscription-based model, service-based model, and pay-per-use model), deployment model (on-premises model, cloud-based model, and hybrid model) end user (pharmaceutical & biotechnology companies, contract research organizations (CROs), academic & research institutions, regulatory bodies and others), and region. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the biosimulation

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

market. A thorough analysis of the key industry players has been done to provide insights into their business overview, offerings, and key strategies such as acquisitions, collaborations, partnerships, mergers, product/service launches & enhancements, and approvals in the biosimulation market. Competitive analysis of upcoming startups in the biosimulation market ecosystem is covered in this report.

Reasons to Buy the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall biosimulation market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers: (increase in R&D investments in the pharmaceutical and biotechnology industries), restraints (lack of standardization), opportunities (use of biosimulation solution for pediatric drug development), and challenges (difficulty in matching the complexity of biological systems and processes) influencing the growth of the biosimulation market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the biosimulation market.
- Market Development: Comprehensive information about lucrative markets the report analyses the biosimulation market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the biosimulation market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players such as Certara USA. (US), Simulations Plus. (US), Dassault Systemes (France), Schrodinger, Inc. (US), Advanced Chemistry Development, Inc. (Canada), Chemical Computing Group ULC. (Canada), Rosa & Co. LLC. (US), Genedata AG (US), etc. among others in biosimulation market. "

Table of Contents:

- 1⊓INTRODUCTION⊓36
- 1.1□STUDY OBJECTIVES□36
- 1.2 MARKET DEFINITION 36
- 1.3 STUDY SCOPE 37
- 1.3.1 MARKETS COVERED & REGIONAL SCOPE 37
- 1.3.2∏INCLUSIONS & EXCLUSIONS∏38
- 1.3.3 YEARS CONSIDERED 39
- 1.4 CURRENCY CONSIDERED 40
- 1.5□STAKEHOLDERS□40
- 1.6 SUMMARY OF CHANGES 40
- 2 RESEARCH METHODOLOGY 42
- 2.1 RESEARCH DATA 42
- 2.1.1 SECONDARY DATA 43
- 2.1.1.1 Key data from secondary sources 44
- 2.1.2 PRIMARY DATA 44
- 2.1.2.1 Key data from primary sources 46
- 2.1.2.2 Insights from primary experts 47
- 2.2 MARKET SIZE ESTIMATION 48
- 2.3 DATA TRIANGULATION 52
- 2.4 MARKET SHARE ESTIMATION 53
- 2.5 RESEARCH ASSUMPTIONS 53

- 2.6 LIMITATIONS 53
- 2.6.1 METHODOLOGY-RELATED LIMITATIONS 53
- 2.6.2 SCOPE-RELATED LIMITATIONS 53
- 2.7□RISK ASSESSMENT□54
- 3 EXECUTIVE SUMMARY 55
- 4∏PREMIUM INSIGHTS∏61
- 4.1□BIOSIMULATION MARKET OVERVIEW□61
- 4.2 ASIA PACIFIC: BIOSIMULATION MARKET, BY REVENUE MODEL AND COUNTRY (2023) 62
- 4.3 BIOSIMULATION MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES 63
- 4.4 BIOSIMULATION MARKET: REGIONAL MIX (2024?2029) ☐ 63
- 4.5∏BIOSIMULATION MARKET: DEVELOPED VS. EMERGING ECONOMIES∏64
- 5∏MARKET OVERVIEW∏65
- 5.1□INTRODUCTION□65
- 5.2∏MARKET DYNAMICS∏65
- 5.2.1 DRIVERS 66
- 5.2.1.1 Increasing R&D investments in pharmaceutical and biotechnology industries 66
- 5.2.1.2 Growing adoption of biosimulation software by regulatory bodies 66
- 5.2.1.3∏Integration of technologically advanced Quantitative Systems Pharmacology (QSP)∏67
- 5.2.1.4 Need to curtail drug discovery and development costs 67
- 5.2.1.5 Growth in biologics and biosimilars markets 67
- 5.2.2 RESTRAINTS 68
- 5.2.2.1 Lack of standardization 68
- 5.2.2.2 Data availability and quality 68
- 5.2.3 OPPORTUNITIES 69
- 5.2.3.1 Emerging applications 69
- 5.2.3.2 Use of biosimulation solutions for pediatric drug development 69
- 5.2.4 □ CHALLENGES □ 70
- 5.2.4.1 Difficulties in matching complexity of biological systems and processes 70
- 5.2.4.2 Shortage of biosimulation and modeling experts 70
- 5.3∏ECOSYSTEM ANALYSIS∏70
- 5.3.1 SOFTWARE PROVIDERS 70
- 5.3.2 PHARMACEUTICAL & BIOTECH COMPANIES 70
- 5.3.3 CONTRACT RESEARCH ORGANIZATIONS (CROS) □71
- 5.3.4 REGULATORY BODIES 71
- 5.3.5 ACADEMIC & RESEARCH INSTITUTIONS 71
- 5.4 CASE STUDY ANALYSIS 72
- 5.4.1 CASE STUDY 1: OPTIMIZING ASCIMINIB DEVELOPMENT THROUGH ADVANCED PBPK MODELING 72
- 5.4.2 CASE STUDY 2: COMPUTATIONAL DISCOVERY OF SELECTIVE WEE1 INHIBITORS FOR CANCER 73
- 5.4.3 Case study 3: Efficient clinical trial utilizing scale management expertise 173
- 5.5 □ VALUE CHAIN ANALYSIS □ 74
- 5.6 PORTER'S FIVE FORCES ANALYSIS 76
- 5.6.1 BARGAINING POWER OF SUPPLIERS 77
- 5.6.2 BARGAINING POWER OF BUYERS 77
- 5.6.3 THREAT OF SUBSTITUTES 77
- 5.6.4 THREAT OF NEW ENTRANTS 77
- 5.6.5 INTENSITY OF COMPETITIVE RIVALRY 77
- 5.7 REGULATORY ANALYSIS 78

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 5.7.1 REGULATORY LANDSCAPE 78
- 5.7.1.1 North America 78
- 5.7.1.2 | Europe | 79
- 5.7.1.3 Asia Pacific 79
- 5.7.1.4 Latin America 80
- 5.7.1.5 Middle East & Africa 80
- 5.7.2 | REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS | 80
- 5.8 PATENT ANALYSIS 83
- 5.8.1 PATENT PUBLICATION TRENDS FOR BIOSIMULATION 83
- 5.8.2 URISDICTION AND TOP APPLICANT ANALYSIS 83
- 5.9∏TECHNOLOGY ANALYSIS∏84
- 5.9.1 | KEY TECHNOLOGIES | 84
- 5.9.1.1 Mathematical modeling 84
- 5.9.1.2 Software platforms 85
- 5.9.1.3 Quantitative systems pharmacology (QSP) 85
- 5.9.2 COMPLEMENTARY TECHNOLOGIES 85
- 5.9.2.1 Data analytics 85
- 5.9.2.2 Machine learning and Al 85
- 5.9.3 ADJACENT TECHNOLOGIES 85
- 5.9.3.1∏In silico trials∏85
- 5.10 INDUSTRY TRENDS 86
- 5.10.1 DISCOVERY OF BIOMARKERS 86
- 5.10.2 | ADOPTION IN PERSONALIZED MEDICINE | 86
- 5.11 PRICING ANALYSIS 86
- 5.11.1 INDICATIVE PRICING ANALYSIS OF KEY PLAYERS, BY OFFERING, 2023 87
- 5.11.2 AVERAGE SELLING PRICE TREND, BY REGION (QUALITATIVE) 87
- 5.12 KEY CONFERENCES & EVENTS, 2024-2025 88
- 5.13 KEY STAKEHOLDERS & BUYING CRITERIA 88
- 5.13.1 BUYING CRITERIA 89
- 5.14 TRENDS & DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES 190
- 5.15 END-USER ANALYSIS 90
- 5.15.1∏UNMET NEEDS∏90
- 5.15.2□END-USER EXPECTATIONS□91
- 5.16 INVESTMENT AND FUNDING SCENARIO 92
- 5.17 IMPACT OF AI/GEN AI ON BIOSIMULATION MARKET 92
- 5.17.1 KEY USE CASES 93
- 5.17.2 IMPACT OF AI/GEN AI ON INTERCONNECTED AND ADJACENT ECOSYSTEMS 94
- 5.17.2.1 Case study 94
- $5.17.2.2 \verb||Bioinformatics market|| 95$
- 5.17.2.3 Drug discovery services market 95
- 5.17.2.4 Drug discovery informatics market 95
- 5.17.3 USER READINESS & IMPACT ASSESSMENT 95
- 5.17.3.1 User readiness □95
- 5.17.3.1.1 Pharmaceutical & biotechnology companies 95
- 5.17.3.1.2 Contract research organizations 96
- 5.17.3.2 Impact assessment 96
- 5.17.3.2.1 User A: Pharmaceutical & biotechnology companies 96

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 5.17.3.2.1.1 | Implementation | 96
- 5.17.3.2.1.2 Impact 96
- 5.17.3.2.2 User B: Academic & research institutes 97
- 5.17.3.2.2.1 Implementation 97
- 5.17.3.2.2.2 | Impact | 97

6□BIOSIMULATION MARKET, BY OFFERING□98

- 6.1∏INTRODUCTION∏99
- 6.2□SOFTWARE□99
- 6.2.1 STANDALONE MODULES 101
- 6.2.1.1 Molecular modeling & simulation software 102
- 6.2.1.1.1 Growing importance of molecular modeling & simulation

in drug discovery and development to accelerate market growth ☐102

- 6.2.1.2 PK/PD modeling & simulation software 103
- 6.2.1.2.1 Pivotal role in early drug development phase to boost market growth 103
- 6.2.1.3 PBPK modeling & simulation software 104
- 6.2.1.3.1 Widespread use by regulatory bodies to drive PBPK modeling & simulation software market 104
- 6.2.1.4 Toxicity prediction software 105
- 6.2.1.4.1 Pressing need for toxicity prediction in drug discovery and development is driving the market 105
- 6.2.1.5 Clinical trial simulation software 106
- 6.2.1.5.1 High failure rate of clinical trials to accelerate growth 106
- 6.2.1.6 Other biosimulation software 107
- 6.2.2 INTEGRATED SOFTWARE SUITES/PLATFORMS 108
- 6.2.2.1 Need for efficient R&D tools to accelerate growth of integrated platforms 108
- 6.3 SERVICES 109
- 6.3.1 CONSULTING & ADVISORY 111
- 6.3.1.1 Need to focus on core competencies to drive need for consulting
- & advisory services □111
- 6.3.2□IMPLEMENTATION, TRAINING, AND SUPPORT□112
- 6.3.2.1 Need for well-trained professionals and experts to accelerate market growth 112
- 6.3.3 □ DATA ANALYSIS & INTERPRETATION □ 113
- 6.3.3.1 ☐ Accurate and precise interpretation of data to drive need for data analysis & interpretation services ☐ 113

7∏BIOSIMULATION MARKET, BY APPLICATION∏114

- 7.1⊓INTRODUCTION⊓115
- 7.2 DRUG DISCOVERY 115
- 7.2.1 TARGET IDENTIFICATION & VALIDATION 117
- $7.2.1.1 \square \text{Need}$ for identification of optimal targets in drug discovery to

drive market 117

- 7.2.2 LEAD IDENTIFICATION & OPTIMIZATION 118
- $7.2.2.1 \square \text{Crucial role}$ in facilitating viable drug discovery to accelerate

market growth ☐118

- 7.3 DRUG DEVELOPMENT 119
- 7.3.1 PRECLINICAL TESTING 120
- 7.3.1.1∏PK/PD∏122
- 7.3.1.1.1 Critical role of PK/PD studies in drug development to

drive market 122

- 7.3.1.2 ADME/Toxicology 123
- 7.3.1.2.1 Growing role in selection of potent drug molecules to

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

boost market growth ☐ 123

- 7.3.2 CLINICAL TRIALS 124
- 7.3.2.1 Phase I 125
- 7.3.2.1.1 Growing need to ease decision-making process to drive segmental growth 125
- 7.3.2.2 Phase II 126
- 7.3.2.2.1 Efficiency in dose assessment and product efficacy to

drive growth 126

- 7.3.2.3 Phase III 127
- 7.3.2.3.1 Need to curtail large costs involved in trials to propel demand 127
- 7.3.2.4 Phase IV/Post-marketing surveillance 128
- 7.3.2.4.1 ∏Ability to assist researchers in process innovation and decision support to drive adoption ☐128
- 7.4 DISEASE MODELING 129
- 7.4.1 CAPABILITY TO PREDICT DISEASE DYNAMICS AND INFORM THERAPEUTIC STRATEGIES TO DRIVE MARKET GROWTH 129
- 7.5 MANUFACTURING & SUPPLY CHAIN MANAGEMENT 130
- 7.5.1 PRODUCTION PLANNING & OPTIMIZATION 132
- 7.5.1.1 Need for proper production planning and execution to drive

market growth 132

- 7.5.2 QUALITY CONTROL & PROCESS MONITORING 133
- 7.5.2.1 Adherence to maintaining product quality to fuel market growth 133
- 7.5.3 DEMAND FORECASTING & INVENTORY MANAGEMENT 134
- 7.5.3.1 Need to forecast demand effectively to drive market growth 134
- 7.5.4 RISK MANAGEMENT & CONTINGENCY PLANNING 135
- 7.5.4.1 Need to maintain operational continuity to support market growth 135
- 7.5.5 ☐ OTHER MANUFACTURING & SUPPLY CHAIN MANAGEMENT APPLICATIONS ☐ 136
- 7.6 OTHER APPLICATIONS 137
- 8 BIOSIMULATION MARKET, BY THERAPEUTIC AREA 138
- 8.1⊓INTRODUCTION⊓139
- 8.2∏ONCOLOGY∏139
- 8.2.1 HIGH PREVALENCE OF CANCER AND SHORTAGE OF EFFECTIVE CANCER DRUGS TO DRIVE MARKET GROWTH 139
- 8.3 CARDIOVASCULAR DISEASES 140
- 8.3.1 RISING NEED FOR DRUGS TO TREAT CARDIOVASCULAR DISEASES
- TO BOOST MARKET 140
- 8.4 | NEUROLOGICAL DISORDERS | 141
- 8.4.1 NEED TO BOOST DRUG DISCOVERY AND DEVELOPMENT FOR NEUROLOGICAL DISORDERS TO SUPPORT MARKET GROWTH 141
- 8.5 INFECTIOUS DISEASES 142
- 8.5.1 RISING EPIDEMIC OUTBREAKS TO BOOST DRUG DISCOVERY ACTIVITY 142
- 8.6 OTHER THERAPEUTIC AREAS 143
- 9□BIOSIMULATION MARKET, BY REVENUE MODEL□145
- 9.1□INTRODUCTION□146
- 9.2∏LICENSE-BASED MODELS∏146
- 9.2.1 LICENSE-BASED MODELS TO ACCOUNT FOR LARGEST SHARE OF MARKET 146
- 9.3 SUBSCRIPTION-BASED MODELS 147
- 9.3.1 SUBSCRIPTION-BASED MODELS TO REGISTER HIGHEST GROWTH RATE DURING FORECAST PERIOD ☐ 147
- 9.4 SERVICE-BASED MODELS 148
- 9.4.1 SPECIALIZED SIMULATION EXPERTISE WITH SERVICE-BASED MODELS
- TO SUPPORT ADOPTION 148
- 9.5 PAY-PER-USE MODELS 149

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- $9.5.1 \\ \square RISING \ DEMAND \ FOR \ FLEXIBLE \ BIOSIMULATION \ SOLUTIONS \ WITHOUT \ UPFRONT \ COSTS \ TO \ SUPPORT \ MARKET \ GROWTH \\ \square 149$
- 10 BIOSIMULATION MARKET, BY DEPLOYMENT MODEL 151
- 10.1□INTRODUCTION□152
- 10.2□ON-PREMISE MODELS□152
- 10.2.1∏OPTIMAL CONTROL ON DEPLOYMENT AND DATA BACKUP TO SUPPORT MARKET UPTAKE∏152
- 10.3 CLOUD-BASED MODELS 153
- 10.3.1 CLOUD-BASED MODEL TO EXPERIENCE HIGHEST GROWTH RATE DURING FORECAST PERIOD 153
- 10.4 HYBRID MODELS 154
- 10.4.1 BALANCED CAPABILITIES OF HYBRID BIOSIMULATION MODELS
- TO ACCELERATE ADOPTION ☐ 154
- 11 BIOSIMULATION MARKET, BY END USER 156
- 11.1∏INTRODUCTION∏157
- 11.2 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES 157
- 11.2.1 INCREASING R&D EXPENDITURE FOR DRUG DISCOVERY AND DEVELOPMENT TO DRIVE MARKET 157 ?
- 11.3□CONTRACT RESEARCH ORGANIZATIONS□158
- 11.3.1 ☐ RISING OUTSOURCING OF CLINICAL TRIAL ACTIVITIES TO CROS BY PHARMACEUTICAL COMPANIES TO DRIVE MARKET ☐ 158
- 11.4 ACADEMIC & RESEARCH INSTITUTES 159
- 11.4.1 FAVORABLE GOVERNMENT SUPPORT FOR RESEARCH TO SUPPORT MARKET GROWTH 159
- 11.5 REGULATORY BODIES 160
- 11.5.1 GROWING USAGE OF BIOSIMULATION SOFTWARE FOR CLINICAL TRIAL EFFICACY TO PROPEL MARKET GROWTH 160
- 11.6 OTHER END USERS 161
- 12∏BIOSIMULATION MARKET, BY REGION∏163
- 12.1□INTRODUCTION□164
- 12.2 NORTH AMERICA 164
- 12.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA 171
- 12.2.2∏US∏171
- 12.2.2.1 Rising government funding for pharmaceutical R&D to drive market 171
- 12.2.3 CANADA 177
- 12.2.3.1 □Increasing funding by Canadian government in healthcare to drive market □177
- 12.3 EUROPE 183
- 12.3.1 MACROECONOMIC OUTLOOK FOR EUROPE 189
- $12.3.2 \verb|| GERMANY \>| 189$
- 12.3.2.1 High number of sponsored clinical trials to drive uptake of biosimulation 189
- 12.3.3 UK 195
- 12.3.3.1∏Investments by pharmaceutical sponsors for drug discovery services to boost market∏195
- 12.3.4 FRANCE 200
- 12.3.4.1 Growing R&D pipeline for clinical trials to drive market 200
- $12.3.5 \verb||ITALY|| 206$
- 12.3.5.1 Increasing government funds and favorable regulatory scenarios
- to fuel uptake [206]
- 12.3.6 SPAIN 211
- 12.3.6.1 Established network of research centers to propel market 211
- 12.3.7 REST OF EUROPE 217
- 12.4

 ☐ASIA PACIFIC

 ☐

 ☐

 222
- 12.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC 229
- 12.4.2 CHINA 229

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 12.4.2.1 Low cost of drug development and large pharmaceutical R&D base to drive market 229
- 12.4.3 INDIA 235
- 12.4.3.1 Growing pharmaceutical industry to fuel uptake of biosimulation 235

?

- 12.4.4∏APAN∏241
- 12.4.4.1 Established drug development infrastructure and biomedical research capabilities to support market growth 241
- 12.4.5 REST OF ASIA PACIFIC 246
- 12.5 LATIN AMERICA 251
- 12.5.1 MACROECONOMIC OUTLOOK FOR LATIN AMERICA 257
- 12.5.2 BRAZIL 257
- 12.5.2.1 Advancing biosimulation in region to support market growth 257
- 12.5.3 | MEXICO | 262
- 12.5.3.1 Government initiatives to enhance digital health to propel

market growth 262

- 12.5.4 REST OF LATIN AMERICA 267
- 12.6 MIDDLE EAST & AFRICA 272
- 12.6.1 MACROECONOMIC OUTLOOK FOR MIDDLE EAST & AFRICA 278
- 12.6.2 GCC COUNTRIES 279
- 12.6.2.1 Increase in healthcare investments to support market growth 279
- 12.6.3 REST OF MIDDLE EAST & AFRICA 284
- 13 COMPETITIVE LANDSCAPE 291
- 13.1 INTRODUCTION 291
- 13.2 KEY PLAYER STRATEGY/RIGHT TO WIN 291
- 13.2.1 □ OVERVIEW OF STRATEGIES ADOPTED BY PLAYERS IN BIOSIMULATION MARKET □ 292
- 13.3 REVENUE ANALYSIS, 2019-2023 293
- 13.4 MARKET SHARE ANALYSIS, 2023 293
- 13.5 RANKING OF KEY MARKET PLAYERS 296
- 13.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023 296
- 13.6.1 STARS 297
- 13.6.2∏EMERGING LEADERS∏297
- 13.6.3 PERVASIVE PLAYERS 297
- 13.6.4 PARTICIPANTS 297
- 13.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023 299
- 13.6.5.1 Company footprint 299
- 13.6.5.2 Offering footprint 300
- 13.6.5.3 Application footprint 301
- 13.6.5.4□End-user footprint□302
- 13.6.5.5 Region footprint 303
- 13.7 COMPANY EVALUATION MATRIX: START-UP/SMES, 2023 304
- 13.7.1 PROGRESSIVE COMPANIES 304
- 13.7.2 RESPONSIVE COMPANIES 304
- 13.7.3 DYNAMIC COMPANIES 304
- 13.7.4∏STARTING BLOCKS∏304
- 13.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023 306
- 13.8 COMPANY EVALUATION AND FINANCIAL METRICS, 2025 308
- 13.9 BRAND/PRODUCT COMPARISON 309
- 13.10 COMPETITIVE SCENARIO 310

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.10.1 PRODUCT LAUNCHES & ENHANCEMENTS 310
- 13.10.2 DEALS 311
- 13.10.3∏EXPANSIONS∏312
- 13.10.4 OTHER DEVELOPMENTS 312
- 14 COMPANY PROFILES 313
- 14.1 KEY PLAYERS 313
- 14.1.1 CERTARA, USA 313
- 14.1.1.1 Business overview 313
- 14.1.1.2 Products & services offered 314
- 14.1.1.3 Recent developments 316
- 14.1.1.3.1 Product launches & enhancements 316
- 14.1.1.3.2 | Deals | 318
- 14.1.1.3.3

 ☐ Other developments
 ☐ 319
- 14.1.1.4 MnM view 319
- 14.1.1.4.1 Right to win 319
- 14.1.1.4.2 Strategic choices 319
- 14.1.1.4.3 Weaknesses & competitive threats 319
- 14.1.2 DASSAULT SYSTEMES 320
- 14.1.2.1 Business overview 320
- 14.1.2.2 Products & services offered 321
- 14.1.2.3 Recent developments 322
- 14.1.2.3.1 Product launches & enhancements 322
- 14.1.2.3.2 Deals 323
- 14.1.2.3.3 Other developments 323
- 14.1.2.4 MnM view 324
- 14.1.2.4.1 Right to win 324
- 14.1.2.4.2 Strategic choices 324
- 14.1.2.4.3 Weaknesses & competitive threats 324
- 14.1.3 SCHRODINGER, INC. 325
- 14.1.3.1 Business overview 325
- 14.1.3.2 Products & services offered 326
- 14.1.3.3 Recent developments 328
- 14.1.3.3.1 □ Deals □ 328
- 14.1.3.3.2 Other developments 329
- 14.1.3.4 MnM view 330
- 14.1.3.4.1 Right to win 330
- 14.1.3.4.2 Strategic choices 330
- 14.1.3.4.3 Weaknesses & competitive threats 330
- 14.1.4 SIMULATIONS PLUS 331
- 14.1.4.1 Business overview 331
- 14.1.4.2 Products & services offered 332
- 14.1.4.3 Recent Developments 336
- 14.1.4.3.1 Product Launches & Enhancements 336
- 14.1.4.3.2 Deals 337
- 14.1.4.3.3 Other developments 339
- 14.1.5 □ ADVANCED CHEMISTRY DEVELOPMENT, INC. □ 340
- 14.1.5.1 Business overview 340

- 14.1.5.2 Products & Services Offered 340
- 14.1.5.3 Recent developments 341
- 14.1.5.3.1 Product launches & enhancements 341
- 14.1.5.3.2 Deals 341
- 14.1.6 CHEMICAL COMPUTING GROUP ULC 342
- 14.1.6.1 Business overview 342
- 14.1.6.2 Products & services offered 342
- 14.1.6.3 Recent developments 343
- 14.1.6.3.1 Product launches & enhancements 343
- 14.1.6.3.2 Deals 343
- 14.1.6.3.3 Other developments □343
- 14.1.7 ROSA & CO. LLC 344
- 14.1.7.1 Business overview 344
- 14.1.7.2 Products & services offered 344
- 14.1.8 GENEDATA AG (A DANAHER COMPANY) 345
- 14.1.8.1 Business overview 345
- 14.1.8.2 Products & services offered 346
- 14.1.8.3 Recent developments 347
- 14.1.8.3.1 Product launches & enhancements 347
- 14.1.8.3.2 Deals 347
- 14.1.9 PHYSIOMICS PLC 348
- 14.1.9.1 Business overview 348
- 14.1.9.2 Products & services offered 349
- 14.1.9.3 Recent developments 350
- 14.1.9.3.1 Product launches & enhancements 350
- 14.1.9.3.2

 ☐ Other developments
 ☐ 350
- 14.1.10□IN SILICO BIOSCIENCES□351
- 14.1.10.1 Business overview 351
- 14.1.10.2 Products & services offered 351
- 14.1.11 ☐ ALLUCENT ☐ 352
- 14.1.11.1 Business overview 352
- 14.1.11.2 Products & services offered 352
- 14.1.11.3 Recent developments 353
- 14.1.11.3.1 Deals 353
- 14.1.11.3.2 | Expansions | 353
- 14.1.11.3.3 Other developments 353
- 14.1.12 OPENEYE, CADENCE MOLECULAR SCIENCES 354
- 14.1.12.1 Business overview 354
- $14.1.12.2 \square Products \ \& \ services \ offered \ \square \ 355$
- 14.1.12.3 Recent developments 356
- 14.1.12.3.1 Product enhancements 356
- 14.1.12.3.2∏Deals∏356
- 14.1.12.3.3 Expansions 357
- 14.1.13 CELLWORKS GROUP, INC. 358
- 14.1.13.1 Business overview 358
- 14.1.13.2 Products & services offered 358

- 14.1.13.3 Recent developments 359
- 14.1.13.3.1 Other developments 359
- 14.1.14 VERISIM LIFE 360
- 14.1.14.1 Business overview 360
- 14.1.14.2 Products & services offered 360
- 14.1.14.3 Recent developments 361
- 14.1.14.3.1 Deals 361
- 14.1.14.3.2 Other developments 362
- 14.1.15 NETABOLICS 363
- 14.1.15.1 Business overview 363
- 14.1.15.2 Products & services offered 363
- 14.1.16 CHARNWOOD DISCOVERY 364
- 14.1.16.1 Business overview 364
- 14.1.16.2 Products & services offered 364
- 14.1.16.3 Recent developments 365
- 14.1.16.3.1 □ Deals □ 365
- 14.1.17 THE MATHWORKS, INC. 366
- 14.1.17.1 Business overview 366
- 14.1.17.2 Products & services offered 366
- 14.1.17.3 Recent developments 367
- 14.1.17.3.1 Product enhancements 367
- 14.1.18 ANSYS, INC. 368
- 14.1.18.1 Business overview 368
- 14.1.18.2 Products & services offered 369
- 14.1.18.3 Recent developments 369
- 14.1.18.3.1 Deals 369
- $14.1.18.3.2 \verb||Other developments|| 370$

?

- 14.2 START-UP/SME PLAYERS 371
- 14.2.1 \square INSTEM GROUP OF COMPANIES \square 371
- 14.2.2 INSILICO MEDICINE 372
- 14.2.3 SCM SOFTWARE CHEMISTRY & MATERIALS 373
- 14.2.4 □ BIOSYMETRICS, INC. □ 373
- 14.2.5 ATOMWISE INC. 374
- 14.2.6 | INSITRO | 374
- 14.2.7 CLINITHINK 375
- 15∏APPENDIX∏376
- 15.1 DISCUSSION GUIDE 376
- 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 382
- 15.3 CUSTOMIZATION OPTIONS 384
- 15.4 RELATED REPORTS 384
- 15.5 AUTHOR DETAILS 385

Scotts International. EU Vat number: PL 6772247784



To place an Order with Scotts International:

 $\hfill \square$ - Complete the relevant blank fields and sign

☐ - Print this form

Biosimulation Market by Offering (Module, Integrated Platform), Application (Disease Modeling, PBPK, PKPD, Trial Simulation, Manufacturing & Supply chain: planning & forecasting), Indication (Cancer, CNS, CVS), End User, & Region - Global Forecast to 2029

Market Report | 2025-02-01 | 386 pages | MarketsandMarkets

 Send as a scanned email to support@scotts-international.com 					
ORDER FORM:					
Select license	License		Price		
	Single User		\$4950.00		
	Multi User		\$6650.00		
	Corporate License	\$8150.00			
	Enterprise Site License		\$10000.00		
		VAT			
		Total			
*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346. [** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers					
Email*		Phone*			
First Name*		Last Name*			
Job title*					
Company Name*		EU Vat / Tax ID / NIP number*			
Address*		City*			

Scotts International. EU Vat number: PL 6772247784

Zip Code*	Country*	
	Date	2025-05-07
	Signature	