

Nanomedicine: Market Research Report

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Abstracts

This report analyzes the Global Market for Nanomedicine in Millions of US\$ by the following Application Areas: Drug Delivery, In Vitro Diagnostics, In Vivo Imaging, Biomaterials, and Others.

Annual forecasts are provided for the period of 2006 through 2015.

The report profiles 263 companies including many key and niche players worldwide such as Abraxis BioScience, Inc., Acusphere, Inc., Advion Biosciences, Inc., Agilent Technologies, Inc., AMAG Pharmaceuticals, Inc., Amgen, Inc., Arrowhead Research Corporation, Calando Pharmaceuticals, Inc., Nanotope, Inc., Tego BioSciences Corporation, BioForce Nanosciences, Inc., BioSante Pharmaceuticals, Inc., Crucell N.V., Elan Corporation Plc, Elan Drug Technologies, Ensysce Biosciences, Inc., Enzon Pharmaceuticals, Inc., eSpin Technologies, Inc., Flamel Technologies S.A., Johnson & Johnson, Life Technologies Corporation, Merck & Co., Inc., Nanobiotix, NanoCarrier Co., Ltd., Nanospectra Biosciences, Inc, Nanosphere, Inc., Nanosys, Inc., Nektar Therapeutics, Novavax, Inc., Oxonica Plc, Par Pharmaceutical Companies, Inc, pSivida Limited, Starpharma Holdings Limited, Dendritic Nanotechnologies, Inc., Starpharma Pty.Ltd., and Wyeth Pharmaceuticals, Inc.

Market data and analytics are derived from primary and secondary research.

Company profiles are mostly extracted from URL research and reported select online sources.



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Radio-Controlled Biomolecules

Quantum Dots

Nanotubes

Fullerenes

Nanoshells

Nanoprobes

Nanoparticles

Ceramic Nanoparticles

Solid Lipid Nanoparticles

Nanocapsules

Dendrimers

Liposomes

Micelles

Nanosuspensions

Liquid Crystals

Hydrogels

Polymeric Nanoparticles

Molecularly Imprinted Polymers

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Sustained and Pulsatile Release Mechanisms in Drug Delivery

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In Vivo Imaging

Biomaterials

Others

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Oncology

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In-vivo Imaging

Effective Tracking of Process Efficiency

Advancing Bioinformatics and Proteomics Research

Carbon Nanotubes in Cancer Treatment



Regenerative Medicine

Futuristic Applications

Bio-molecular Motors

Genetic and Tissue Engineering

External Tissue Products

Internal Tissue Implants

Dental and Bone Replacement

Protein and Gene Analysis

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Philips Releases First 3D Imaging Findings

Researchers in University of Pennsylvania Invent Novel Carbon Nanopipette

UCLA Scientists Develop Localized and Controlled Drug Delivery Method

Minerva Makes New Discovery in Cancer Treatment

NanoBio Releases Positive Data with NB-002

NanoBio Receives Positive Pre-Clinical Results with Intranasal Influenza Vaccine

Abraxis Announces Interim Results of Abraxane® for Metastatic Breast Cancer

Abraxis Reveals Positive Data with Abraxane® and Gemzar®

BioDelivery Commences Clinical Study with Bioral® Amphotericin B

NanoCarrier Develops Protein Nanoencapsulation Technology

Flamel Releases Positive Preliminary Data from FT-105 Phase I Study

Abraxis Releases Positive Pre-Clinical Data with nab™ Technology Platform and SPARC

Expression in Cancer Treatment

American Scientists Develop Unique Nano-Based Drug Delivery System

Researchers at University of Queensland Focus to Develop Novel Nano-based

Diagnostics for Cancer Detection

Indian Researchers Synthesize Polymeric Nanocurcumin for Cancer Therapy

Researchers Mull on Using Nanoparticles to Develop Anti-Tumor Vaccines

Nanomedicine Creates New Avenues for Regeneration of Nerve Cells

University of Illinois Develop Enhanced Biomimetic Membranes

Johns Hopkins Faculty develop Nanoparticle-Embedded Microcapsules

Max Planck Research Team Develops Gold Nanoparticles

Nanotechnology based Panacea for Facial Wrinkles

7.PRODUCT INTRODUCTIONS/INNOVATIONS

Starpharma Holdings Releases the NanoJuice™ Transfection Kit Telomolecular Introduces Nano-Based Aging Solution



CytoViva® Unveils Advanced Nanotechnology Research Tool
eBioscience Introduces eFluor™ Brand
eBioscience Launches eFluor™ Nanocrystals
BioForce Nanosciences Unveils Surface Patterning Service
Eastman Kodak Unveils KODAK X-SIGHT Imaging Agents
Biomet Launches NanoTite Dental Implant
Deerac Introduces Equator HTS/2 Liquid Handling Solution
IMEC Develops Functionalized Magnetic Nanoparticles
Ivoclar Vivadent Introduces New Version of Tetric Flow
Calando to Begin Human Clinical Trials for siRNA-based Therapeutic Drug for Cancer
Dabur Pharma Launches Nano-Based Drug Delivery System

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APR Acquires New Drug Delivery Platform Merck Inks Merger Agreement with Schering-Plough Nanobiotix to Collaborate with SonoDrugs Project Consortium Liquidia and Abbott to Jointly Develop siRNA Therapeutics Pro-Tect Acquires Medivices' Nanotechnology Method APR to Create Dedicated Nanotechnology Unit Agilent Takes Over Nano Instruments Veridex Acquires Immunicon Thermo Fisher Takes Over nAscent Labcyte and Deerac Fluidics Combine Operations Invitrogen and Applied Biosystems Merge to Form Life Technologies Insert Therapeutics Merges with Calando Pharmaceuticals Capsulution Nanoscience and NanoDel Technologies Merge BioForce Forms Collaboration with UAlbany NanoCollege Advion and Bruker Daltonik Enter into Joint Marketing Agreement Midatech Group Inks Agreement with MonoSol Rx Advion Signs Co-Marketing Agreement with Agilent Technologies Abraxis Inks Deal to Re-Acquire US Rights to Abraxane NanoKTN and Bio Nano to Develop Nanomedicine **Evolved Machines Inks License Contract with Nanosys** Abraxis Bags European Commission Approval to Market Abraxane Nanogen Eyes European Molecular Diagnostics Market Abraxis Receives Approval for Marketing ABRAXANE in Korea and China BioForce Receives MIT Validation for Nano eNabler Molecular Printer Oxonica and Becton, Dickinson and Co. Sign Strategic Deal



Nanogen Sells Royalties to DRI Capital

Nanogen Signs Deal with Thermo Fisher

Midatech Establishes New Nanotechnology Subsidiary

Nanogen and HX Diagnostics Extend Collaboration

Cytlmmune Joins Hands with University of Maryland

Abraxis Inks Licensing Deal with Japan's Taiho

Abraxis Files Marketing Application for Abraxane in Japan

BioForce Secures State Funding for ViriChip™

Capsulution and Advanced Materials Ink Patent License Deal

Midatech Bags US Grant on Patent Application

Nanobiotix Wins European Patent for Activable Particles

Nanotherapeutics Submits IND Application for NanoDOX ™ Hydrogel

Nanobiotix to Focus on Development of Diagnostics for Tropical Diseases

Ceres to Develop Novel Nanotechnology Products

Batist to Commence Production of Nanotechnology- Based Bandage

Unidym Creates Spin-Off Unit

Avanti Creates Dedicated Targeted Drug Delivery Company

Hill-Rom Chooses Anti-Microbial Technology of NanoHorizons

Advion Acquires NanoTek

Pioneer Surgical Acquires Angstrom Medica

Arrowhead Acquires C Sixty

Veritek Completes Acquisition of Omni-Lite E-Form

Wyeth Extends Collaboration with Ablynx

Starpharma Inks Agreement with Stiefel

Nanosys Signs Collaboration Deal with Bruker Daltonics

Abraxis Selects Green Cross to Commercialize Abraxane in Korea

Abraxis Signs Deal to Partner California NanoSystems Institute

BioForce Nanosciences Inflates Clientele Base for Nano eNabler™ System

Xidex Bags Contract to Make Carbon Nanotube Sources for Electron Microscopes

Novartis Extends Deal with Ablynx

BioSante Inks License Agreement with Medical Aesthetics

Nanolmaging Launches Imaging Services Unit

Midatech Inaugurates cGMP Standard Nanoparticles Production Facility

Abraxis Announces Dedicated Proprietary Biotechnology Business

Eksigent Signs Distribution Deal in Brazil

NanoVic Establishes Two Nano-bio Companies

Veeco Signs Collaboration Deal with Leica

NanoViricides Inks CRADA with USDoD Agency

Rexahn Wins Maryland Industrial Partnerships Funding



Azaya Therapeutics Gains Patent for Nanotech-Based Cancer Treatment Platform

Flamel Inks Deal with Wyeth Pharmaceuticals

Flamel Signs Deal with Merck Serono

NanoChip® 400 Platform of Nanogen Now a GSA Schedule Product

Nanogen Bags Canadian Funding for Veterinary and Bio-Terror Diagnostics

Development Project

Nanogen Signs Deal in Australia for Schizophrenia Markers

Wyeth Wins FDA Approval for New Labeling for Rapamune

Arrowhead Infuses Capital into Tego

GSK Extends Collaboration with Exelixis

Oncologix Collaborates with Dendritic Nanotechnologies to Redesign its Oncosphere

Product

Abraxis Signs Licensing Contract in India

Abraxis Receives Australian TGA's Acceptance to Review Marketing Application for Abraxane®

Nanotherapeutics and National Cancer Institute Sign CRADA

Relisys and Cinvention Extend Licensing Agreement

Lumera Extends Collaboration Pact with Medical University of South Carolina

9. FOCUS ON SELECT PLAYERS

Abraxis BioScience, Inc. (US)

Acusphere, Inc. (US)

Advion Biosciences, Inc. (US)

Agilent Technologies, Inc. (US)

AMAG Pharmaceuticals, Inc. (US)

Amgen, Inc. (US)

Arrowhead Research Corporation (US)

Calando Pharmaceuticals, Inc. (US)

Nanotope, Inc. (US)

Tego BioSciences Corporation (US)

BioForce Nanosciences, Inc. (US)

BioSante Pharmaceuticals, Inc. (US)

Crucell N.V. (The Netherlands)

Elan Corporation Plc (Ireland)

Elan Drug Technologies (Ireland)

Ensysce Biosciences, Inc. (US)

Enzon Pharmaceuticals, Inc. (US)

eSpin Technologies, Inc. (US)



Flamel Technologies S.A. (France)

Johnson & Johnson (US)

Life Technologies Corporation (US)

Merck & Co., Inc. (US)

Nanobiotix (France)

NanoCarrier Co., Ltd. (Japan)

Nanospectra Biosciences, Inc. (US)

Nanosphere, Inc. (US)

Nanosys, Inc. (US)

Nektar Therapeutics (US)

Novavax, Inc. (US)

Oxonica Plc (UK)

Par Pharmaceutical Companies, Inc. (US)

pSivida Limited (Australia)

Starpharma Holdings Limited (Australia)

Dendritic Nanotechnologies, Inc. (US)

Starpharma Pty. Ltd. (Australia)

Wyeth Pharmaceuticals, Inc. (US)

10. GLOBAL MARKET PERSPECTIVE

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Table 10. World 10-Year Perspective for Nanomedicine Market by Application Area – Percentage Breakdown of Revenues for Drug Delivery, In Vitro Diagnostics, In Vivo Imaging, Biomaterials and Other Applications for the Years 2006, 2009 and 2015 (includes corresponding Graph/Chart)

III. COMPETITIVE LANDSCAPE

Total Companies Profiled: 263 (including Divisions/Subsidiaries - 269)

Region/CountryPlayers

The United States

Canada

Japan

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Europe

France

Germany

The United Kingdom

Spain6

Rest of Europe19

Asia-Pacific (Excluding Japan)

Middle East8



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