Greystone Research Associates is pleased to announce the publication of a new market study, *Molecular Imaging Agents: Technology, Targets, Markets and Forecasts* is a comprehensive evaluation and analysis of the technology, products and participants providing the driving force behind this evolving segment of the healthcare sector.

The study is designed to provide drug company decision makers, drug delivery developers, device designers, healthcare marketers, and supply chain participants with a detailed understanding of the economics, technologies, and commercial opportunities for imaging agents capable of binding to highly specific and differentiated targets. Provider organization business managers, healthcare administrators and investors will also benefit from this study.

**Imaging agents that function at the Molecular and Cellular Level**

The ability of molecular imaging agents to improve diagnostic and treatment capabilities is now driving a directed effort to develop new agents with enhanced specificity. To sense biological processes such as gene expression, angiogenesis, apoptosis or cell trafficking in vivo, imaging reporter agents that interact specifically with molecular targets and appropriate imaging systems are currently under development. Molecular imaging will greatly reduce the need for animal tissue sampling or human biopsy when studying the progression of a disease or the follow-up of a gene therapy. It has the advantage of being non-invasive, and because it can be repeated many times, it provides both spatial and temporal dimensions to the understanding of the gene expression of the disease or therapy.

**Report Value Chain – Who Should Read This Report**

**Development**
- Drug Developers
- Device Suppliers
- CMOs
- Components/APIs
- Testing/Validation
- Clinical Trial Mgmt

**Industry**
- Pharma Managers
- Biotech Managers
- Drug Marketers
- Industry Strategists
- Financial Analysts
- Management Consultants

**Market**
- Clinical Managers
- Drug Distributors
- Pharma Regulators
- FDA Consultants
- Managed Care Managers
Executive Summary

The Evolving Diagnostic Imaging Market

Imaging Agent Product Segments
Antibodies
Conjugated Radioisotopes
Metabolic Biomarkers
Optical Probes
Nanoparticles
Targeted Imaging Agents
Activatable Imaging Agents

Evolution in Imaging Agent Market Segments

Disease Detection
Image-Guided Drug Delivery
Physiological Process Mapping
Therapeutic Screening
Treatment Assessment
Differential Diagnosis

Molecular Imaging Agents & Imaging Modalities

MRI
Optical Imaging
PET
SPECT
Ultrasound
Multimodal Imaging

Molecular Imaging Agent Categories
Affibodies
Antibody Fragments
Antibodies Targeting Immune Factors
mAbs
Chimeric mAbs
Nanoparticles
Peptides
Small Molecules

Molecular Imaging Agents in Healthcare – Clinical Applications

Apoptosis
Cardiology
Angiogenesis
Integrins
Adenosine Receptors
Vascular Endothelial Growth Factor Receptors
Immunology
Autoimmunity & Inflammation
Metabolic
Diabetes
Neurology
Amyloid Peptides
Peripheral Benzodiazepine Receptors
Dopamine Receptors
Metabotropic Glutamate Receptor (Subtype 1, Subtype 5)
Norepinephrine Transporter
P-glycoprotein Transporter
Serotonin Receptors
Serotonin Transporter
Cannabinoid Receptors
Oncology
Carinoembryonic Antigen
Folate Receptors
EGFR/HER1 Receptor
HER2 Receptor
Estrogen Receptor
Glucose Transporters
Gastrin-releasing Peptide Receptors
Gastrin/cholecystokinin Receptor
L-Type Amino Acid Transporter
Matrix Metalloproteinase
Melanocortin-1
Prostate-specific Membrane Antigen (PSMA)
Sigma Receptors
Somatostatin Receptors
Market Factors
Regulations
Manage Care
Alliance Activity
Evolving Modalities
Company Profiles
What You Will Learn

- Analyzes molecular imaging agents by category, target and method of detection, and assesses their capabilities, benefits, limitations and potential
- Examines evolving imaging market segments and their impact on the diagnostic imaging sector
- Analyzes key industry alliances and partnerships by imaging modality, and examines the impact of next-generation imaging candidates on future imaging markets
- Profiles market participants, their development activity and business strategies
- Evaluates the impact of economic, technology, and regulatory factors on the development and commercialization of emerging imaging agents

Report Format and Availability

This report is available electronic format. A site license for a single physical location and a corporate license are also available. Custom licensing options to address specific company user requirements are available by calling client services at 603-595-4340, or by emailing clientservices@greystoneassociates.org.

Methodology

Research methodology is based on primary research in the form of in-depth interviews with key market participants, technology developers, distributors, industry experts, and market influencers, a list that includes regulatory officials, industry trade groups, and materials standards organizations.

Primary data is evaluated and normalized against secondary sources including trade journal articles, technical literature, industry publications, company data sheets and published information, and statistical data from government agencies and trade associations.

Forecasts and projections of market demand and future market activity are derived using standard modeling and statistical techniques.

About Greystone Associates

Greystone Associates is a medical technology consulting firm focused on the areas of medical market strategy, product commercialization, venture development, and market research. We assist medical and healthcare market participants in achieving their business objectives through the creation of detailed development strategies, product commercialization programs, and comprehensive market and technology research and analysis.

Our market research publications are designed, researched and written to provide timely and insightful information and data on focused market segments, with the aim of providing market participants with the essential knowledge to refine and execute their marketing plans and financial targets.

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Molecular Imaging Agents

Technology, Targets, Markets and Forecasts

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