US Genetic Diseases, Cancer, Forensic and Paternity Molecular Diagnostic Testing Markets: Country Forecasts, Emerging Technologies, Competitive Landscape

Table of Contents

Introduction

Global Market Trends and Emerging Technologies

- A. DNA Sequencing
- B. DNA and RNA Probe Technology
- C. Detection Technologies
- D. Instrumentation: Review of Automated and Semi-Automated Analyzers
- E. Biochips: Genosensors, Microarrays, Labs-on-the-Chip
- F. Pharmacogenomics
- G. Cancer Molecular Diagnostics Testing
 - 1. Overview
 - 2. Major Cancer Types
 - 3. Oncogenes
- H. Genetic Diseases Molecular Diagnostic Testing
 - 1. Overview
 - 2. Nucleic Acid Amplification
 - 3. Chromosome Imaging
 - 4. Genomics Technologies
 - 5. Proteomics Technologies
 - 6. Current Pharmacogenomic Testing
 - 7. Major Diseases
- I. Forensic Molecular Diagnostics Testing
 - 1. Overview
 - 2. Multilocus and Single Locus Probes
 - 3. The FBI

Table of Contents (continued)

- 4. DNA Profile Data Banks
- 5. Judicial Implementation
- 6. Major Crime Categories
- 7. Factors Contributing to the DNA Probe Major Expansion
- J. Paternity Testing/HLA Typing Molecular Diagnostic Testing
- K. Other Molecular Diagnostic Testing Applications
- L. Competing/Complementing Technologies

U.S.

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Dynamics, Trends, Size and Growth
 - Volume Forecasts by Market Segment
 - Sales Forecasts by Market Segment
 - Major Supplier Sales and Market Shares

Major Product Development Opportunities

- A. Opportunities for New Instrumentation
- B. Opportunities for New Reagent Kits and Test Systems/Panels
- C. Opportunities for New IT, Computers, Software and Automation
- D. Opportunities for New Auxiliary Products

Design Criteria For Decentralized Testing Products

Alternative Market Penetration Strategies

Potential Market Entry Barriers And Risks

Competitive Profiles

- Abbott
- Affymetrix
- Agilent Technologies
- Applied Gene Technologies

Table of Contents (continued)

- Arca Biopharma
- Beckman Coulter/Danaher
- Becton Dickinson
- Biokit
- BioMerieux
- Bio-Rad
- Biotest
- Cepheid
- CellMark Forensics/LabCorp
- Decode Genetics
- Diadexus
- Eiken
- Elitech Group
- Enzo
- Exact Sciences
- Fujirebio
- Grifols
- Hologic/Gen-Probe
- Illumina
- Kreatech/Leica
- Li-Cor Biosciences
- Monogram Biosciences
- Myriad Genetics
- Ortho-Clinical Diagnostics
- Perkin Elmer/Caliper
- Proteome Sciences
- Qiagen
- Roche
- Scienion
- Sequenom
- Shimadzu
- Siemens
- Sierra Molecular
- Takara Bio
- Tecan Group
- Thermo Fisher

Appendixes

List of Tables

Oncogenes Potential Applications in Cancer Diagnosis

Major Companies Developing or Marketing Cancer Molecular Diagnostic Tests

Major Companies Developing or Marketing Molecular Diagnostic Tests For Genetic Diseases

U.S.A., Laboratories Performing DNA Sequencing by Market Segment

U.S.A., Molecular Diagnostics Market, Potential Laboratory Universe by Market Segment

U.S.A., Molecular Diagnostic Test Volume Forecast By Major Application

U.S.A., Molecular Diagnostic Market Forecast By Major Application

U.S.A., Molecular Diagnostics Market by Major Supplier