

2016-2020 Emerging Molecular Diagnostic Technologies and Strategic Profiles of Leading Suppliers

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Abstracts

This 185-page report provides detailed analyses of current and emerging molecular diagnostic technologies, and their potential market applications, including DNA sequencing, RNA probes, detection technologies, biochips, genosensors, microarrays, labs-on-the-chip, and other. The report also presents strategic assessments of current and emerging suppliers of molecular diagnostics products, including their sales, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements, and business strategies.

Contains 185 pages



Contents

DNA AND RNA PROBE TECHNOLOGIES

- 1. Basic Principles
- 2. Probe Preparation
- 3. The DNA Probe Test
- 4. Test Formats
- 5. Labeling Techniques
- 6. Amplification Methods

DETECTION TECHNOLOGIES

- 1. Radioactive Methods
- a. Overview
- b. Major Isotopes
 - P-32
 - S-35
 - H-3
 - I-125
- 2. Non-Isotopic Methods
 - a. Enzymatic Labels
 - b. Chemical LabelingIndirect Chemical Labeling
 - **Direct Chemical Labeling**
 - c. Fluorescence
 - d. Chemiluminescence
 - e. Electrical Conductivity

BIOCHIPS: GENOSENSORS, MICROARRAYS, AND LABS-ON-THE-CHIP

Liquid Transportation and Mixing

Separation

Reaction

Detection

COMPETITIVE ASSESSMENTS

Abbott



Affymetrix

Agilent Technologies

Applied Gene Technologies

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/LabCorp

Myriad Genetics

Ortho-Clinical Diagnostics

Perkin Elmer/Caliper

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Sequenom

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Sierra Molecular

Takara Bio

Tecan Group

Thermo Fisher



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