

# 2020 Emerging Cancer Diagnostic Technologies and Supplier Profiles

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## **Abstracts**

This report provides detailed assessments of such technologies as monoclonal antibodies, immunoassays, DNA probes, biochips/microarrays, chromosome analysis, IT, flow cytometry, biosensors, and their potential applications for cancer diagnostic testing. Also included is a review of competing/complementing technologies, such as CT, MRI, NMR, PET and photonics spectroscopy.

Contains 110 pages



### **Contents**

#### 1. MONOCLONAL AND POLYCLONAL ANTIBODIES

#### 2. IMMUNOASSAYS

- a. Technological Principle
- b. Radioimmunoassay (RIA)
- c. Enzyme Immunoassays (EIA)

Overview

**ELISA** 

**Immunofiltration** 

Particle-Membrane Capture Immunoassay

**Enzyme Amplification** 

- d. Fluorescent Immunoassays
- e. Luminescence

Chemiluminescence

Bioluminescence

- f. Latex Agglutination
- g. Immunoprecipitation
- h. Affinity Chromatographu
- e. Liposome Flow-Injection Immunoassay

#### 3. MOLECULAR DIAGNOSTICS

- a. Technology Overview
- b. Amplification Methods

**PCR** 

**DAP-PCR** 

Immuno-PCR

QC-PCR

CAR

DNA

**HPA** 

LCR

**NASBA** 

**QBR** 

**SDA** 

3 SR, and others



#### 4. CHROMOSOME ANALYSIS

- a. Chronic Myelogenous Leukemia (CML)
- b. Acute Myeloid Leukemia (AML)
- c. Acute Lymphoblastic Leukemia (ALL)
- d. Malignant Lymphomas Lymphoid Malignancies
- e. Chronic Lymphocytic Leukemia (CLL)
- f. Solid Cancers
- g. Chromosomal Translocation and Oncogenes
- 5. Artificial Intelligence
- 6. FLOW CYTOMETRY
- 7. TWO DIMENSIONAL GEL ELECTROPHORESIS (2-DGE)
- 8. BIOSENSORS
- 9. COMPETING/COMPLEMENTING TECHNOLOGIES
- a. CT
- b. MRI
- c. NMR
- d. PET
- e. Photonics Spectroscopy



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