

New Frontiers in the US Cancer Diagnostics Market: Business Challenges, Emerging Technologies, Competitive Landscape

<https://marketpublishers.com/r/N15CBBF4E57EN.html>

Date: May 2014

Pages: 620

Price: US\$ 7,840.00 (Single User License)

ID: N15CBBF4E57EN

Abstracts

Complete report \$9,800. DataPack (test volumes, sales forecasts, supplier shares) \$6,400.

New Frontiers in the U.S. Cancer Diagnostics Market: Business Challenges, Emerging Technologies, Competitive Landscape is Venture Planning Groups new study of the major business opportunities emerging in the U.S. cancer diagnostics market during the next five years. The report examines trends in the U.S. cancer diagnostics markets, reviews current and emerging assays; analyzes potential applications of new diagnostic technologies; forecasts sales of major tumor markers by market segment; profiles leading players and potential market entrants; and identifies specific business opportunities for suppliers.

Rationale

The cancer diagnostics market is on the verge of explosion, as the researchers approach major technological breakthroughs in tumor diagnosis and therapy, discover new specific antigens, and unlock the mystery of the genetic basis of the disease. During the next five years, the worldwide cancer diagnostics market is promising to be an exciting, dynamic and rapidly expanding field. Anticipated technological breakthroughs will create numerous opportunities for determining genetic predisposition, detecting specific tumors, and monitoring biological response to cancer therapy. The rise in geriatric population will further compound the growing demand for malignancy assays and the rapid market expansion worldwide.

U.S. Market Overview

Five-year test volume and sales projections.

Comprehensive market segmentation analysis, including review of the market dynamics, structure, size, growth and major suppliers.

Estimated universe of laboratories performing cancer diagnostic testing.

Cancer statistics, etiology and recent developments.

Business Opportunities and Strategic Recommendations

Specific new product development opportunities with potentially significant market appeal during the next five years.

Design criteria for new products.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Over 200 Current and Emerging Cancer Diagnostic Test

Biochemical Markers

Oncogenes

Growth Factors

Hormones

Colony Stimulating Factors

Lymphokines

Immunohistochemical Stains, and others.

ACTH, AFP, Beta-2 Microglobulin, CA 15-3/27.29, CA 19-9, CA 125, Calcitonin,

Cathepsin, CEA, Chromogranin, Colon-Specific Antigen, Cytokeratins, Estrogen Receptor, Ferritin, Gastrin, HCG, Insulin, Interferons, Interleukins, Lymphocyte Subtyping, Neuron-Specific Enolase, Nucleolar, Occult Blood, Oncogenes, Pancreatic Oncofetal Antigen, Pap Smear, Parathyroid Hormone, Progesterone Receptor, Prostatic Acid Phosphatase, Prostatic Specific Antigen, S-100 Protein, Serotonin, Sialic Acid, Squamous Cell Carcinoma Ag, TDT, Thymidine Kinase, Thyroglobulin, Tissue Polypeptide Antigen, and others.

Supplier Shares, Sales and Volume Forecasts

Sales and market shares of major cancer diagnostic product suppliers by individual test.

Five-year test volume and sales forecasts for major tumor markers by market segment, including:

Hospitals

Commercial/Private Laboratories

Physician Offices/Group Practices

Cancer Clinics

Instrumentation Review

Analysis of major molecular diagnostic and immunodignostic analyzers used for cancer testing, including their operating characteristics, features and selling prices.

Technology Assessment

Assessment of latest molecular diagnostic methods, biochips/microarrays, biosensors, monoclonal antibodies, immunoassays, chromosome analysis, IT, artificial intelligence, flow cytometry, and other technologies and their potential applications for cancer diagnostic testing.

Review of competing/complementing technologies, including CT, MRI, NMR,

PET and photonics spectroscopy.

Extensive listings of companies, universities and research centers developing new cancer diagnostic tests and detection technologies.

Competitive Strategies

Strategic assessments of major suppliers and start-up firms developing innovative technologies and products, including their sales, product portfolios, marketing tactics, collaborative arrangements, and new products in R&D.

The companies analyzed in the report include

Abbott

AdnaGen

Agilent Technologies

Applied Gene Technologies

Arca/Nuvelo

Beckman Coulter/Danaher

Becton Dickinson

Biomedical Diagnostics

bioMerieux

Bio-Rad

CellSearch

Cepheid

Correlogic Systems/Vermillion

Decode

Diadexus

Diagnocure

DiaSorin

Eiken Chemical

Epigenomics

Enterix

Enzo Biochem

Exact Sciences

Fujirebio/Innogenetics

Guided Therapeutics

Hologic/Gen-Probe

Kreatech

Kyowa Medex

Mackay Life Sciences

Myriad Genetics

Nanogen Elitech

OncoLab

Ortho-Clinical Diagnostics

Panacea Pharmaceuticals

Polartechnics

Polymedco

PreMD

Qiagen/Ipsogen

Quest Diagnostics

Radiant Pharmaceuticals

Roche

Scienion

Sequenom

Siemens Healthcare

Takara Bio

Targeted Diagnostics & Therapeutics

Thermo Fisher/Life Technologies

Tosoh

Veridex

Wako Pure Chemicals

Wallac/PE

Zilla

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ADA

B-Protein

PNP

5'-Nucleotidase

27. ONCOGENES

Abl/abl-bcr

AIB1

BCL-2

BRCA1

CD44

C-fos

C-myb

C-myc

CYP-17

Erb-B

HPC1

N-myc

P40

P51

P53

PIK3CA

PTI-1

Ras

Reg

Sis

Src

28. POLYPEPTIDE GROWTH FACTORS

Basic Fibroblast Growth Factor

Beta-TGF

Cachectin (TNT)

Calmodulin

ECFR

Nerve Growth Factor (NGF)

Epidermal Growth Factor (EGF)

Ornithine Decarboxylase

Transferrin

Transforming Growth Factor-Alpha

29. ECTOPIC HORMONES

30. COLONY STIMULATING FACTORS**31. LYMPHOKINES**

Alpha-Interferon
B Cell Growth Factors
B Cell Growth Factor (BCGF)
Gamma-Interferon
Interleukin-1 (IL-1)
Macrophage Activating Factor

32. IMMUNOHISTOCHEMICAL STAINS**33. EMERGING TUMOR MARKERS**

N-Acetylglucosamine
Actin
Alpha-Actin
Antineuronal Antibodies
7B2
B72.3
Bax
BCD-F9
BLCA-4
Blood Group Antigens A,B,H
CA 50
CA 72-4/TAG-72
CA 195
CA-242
CA-549
CAM 26
CAR-3
Cathepsin-D
Chromogranin A and B
Cluster 1 Antigen
Cluster-5/5A Antigen
CTA
CU18
DR-70
DU-PAN-2
Endometrial Bleeding Associated Factor
Endostatin
Epithelial Membrane Antigen
Feulgen Hydrolysis

Fibronectin
FSH
(1->3)-L-fucosyltransferase
Gastrin-Releasing Peptide (GRP)
GDCFP-15
Glucagon
Glycoamines
H23
Her-2
Human Carcinoma Antigen
HPA
HSP27
Intermediate Filaments
Cytokeratins/CK18/Cyfra 21-1
Desmin
Gliofibrillary Acid Protein
Neurofilaments
Vimentin
KA 93
Kinases
KP16D3
LAI
Leukocyte Common Antigen
Lewis Antigens
Lysophosphatidic Acid (LPA)
Ma 695/Ma 552
MABDF3
MAG
ME1
Minactivin
MN/CA9
MSA
Mucin Cancer Antigen (MCA)
Multiple Tumor Suppressor 1
Myosin
NEA-130
NMP22
OA-519
Opioid Peptides

P-glycoprotein
Pancreatic Oncofetal Antigen (POA)
Placental Lactogen
PR92
Proliferative Index, Ki-67
Px
RB Inactivation/Deletion
Ret
SCCL 175
Selectin
Sialic Acid
Sialyl SSEA-1/SLX
SN10
Somatostatin
TA-90
TABA
Tachykinin
TAG 12
TPS
Troponin
Tubulin
VCAM
VEGF
Villen

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- b. Amplification Methods
- c. Sequencing
- d. Microarrays/Biochips

2. MONOCLONAL AND POLYCLONAL ANTIBODIES

3. 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
- 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
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 - b. MRI
 - c. NMR
 - d. PET
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- E. Personal Testing

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Abbott
AdnaGen
Agilent Technologies
Applied Gene Technologies
Arca/Nuvelo
Beckman Coulter/Danaher
Becton Dickinson
Biomedical Diagnostics
bioMerieux
Bio-Rad
CellSearch
Cepheid
Correlogic Systems/Vermillion
Decode
Diadexus
Diagnocure
Diasorin
Eiken Chemical
Epigenomics
Enterix
Enzo Biochem
Exact Sciences
Fujirebio/Innogenetics
Guided Therapeutics
Hologic/Gen-Probe
Kreatech
Kyowa Medex
Mackay Life Sciences
Myriad Genetics
Nanogen Elitech
OncoLab
Ortho-Clinical Diagnostics
Panacea Pharmaceuticals
Polartechnics
Polymedco
PreMD
Qiagen/Ipsogen
Quest Diagnostics
Radient Pharmaceuticals

Roche
Scienion
Sequenom
Siemens Healthcare
Takara Bio
Targeted Diagnostics & Therapeutics
Thermo Fisher/Life Technologies
Tosoh
Veridex
Wako Pure Chemicals
Wallac/PE
Zila

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Major Companies Developing or Marketing AFP Tests

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Major Companies Developing or Marketing CA 15-3/27.29 Tests

Major Companies Developing or Marketing CA 19-9 Tests

Major Companies Developing or Marketing CA 125 Tests

Major Companies Developing or Marketing Calcitonin Tests

Major Companies Developing or Marketing CEA Tests

Major Companies Developing or Marketing Estrogen Receptor Tests

Major Companies Developing or Marketing Progesterone Receptor Tests

Major Companies Developing or Marketing Ferritin Tests

Major Companies Developing or Marketing Gastrin Tests

Major Companies Developing or Marketing HCG Tests

Major Companies Developing or Marketing Insulin Tests

Major Companies Developing or Marketing NSE Tests

Major Companies Developing or Marketing Occult Blood Tests

Major Companies Developing or Marketing PAP Smear/HPV Tests

Major Companies Developing or Marketing PAP Tests

Major Companies Developing or Marketing PSA Tests

Major Companies Developing or Marketing Lymphocyte Subclassification Tests

Biochemical Markers Potential Applications In Cancer Diagnosis

Oncogenes Potential Applications In Cancer Diagnosis

Major Companies Developing or Marketing Oncogene Tests

Growth Factors Potential Applications In Cancer Diagnosis

Colony Stimulating Factors Potential Applications in Cancer Diagnosis

Lymphokines Potential Applications In Cancer Diagnosis

Immunohistochemical Stains Potential Applications in Cancer Diagnosis

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U.S., Commercial/Private Laboratories Performing Tumor Marker Tests by Annual Test

Volume

U.S., Physician Office Laboratories Performing Tumor Marker Tests By Practice Size
U.S., Total Tumor Marker Test Volume Forecast by Market Segment
U.S., All Market Segments Major Tumor Marker Test Volume Forecast
U.S., Hospital Laboratories Major Tumor Marker Test Volume Forecast by Test
U.S., Commercial/Private Laboratories Major Tumor Marker Test Volume Forecast
U.S., Physician Offices/Group Practices Major Tumor Marker Test Volume Forecast
U.S., Cancer Clinics Major Tumor Marker Test Volume Forecast by Test
U.S., Total Tumor Marker Sales Forecast by Market Segment
U.S., All Market Segment Major Tumor Marker Sales Forecast by Test
U.S., Hospital Laboratories Major Tumor Marker Sales Forecast by Test
U.S., Commercial/Private Laboratories Major Tumor Marker Sales Forecast by Test
U.S., Physician Offices/Group Practices Major Tumor Marker Sales Forecast by Test
U.S., Cancer Clinics Major Tumor Marker Sales Forecast by Test
U.S., ACTH Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., AFP Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Beta-2 Microglobulin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., CA 15-3/27.29 Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., CA 19-9 Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., CA-125 Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Calcitonin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Cathepsin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., CEA Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Chromogranin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Colon-specific Antigen Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Cytokeratins Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Estrogen Receptor Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Ferritin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Gastrin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., HCG Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Insulin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Interferons Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Interleukins Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Lymphocyte Subtyping Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., NSE Test Volume and Diagnostics Sales Forecast by Market Segment

U.S., Nucleolar Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Occult Blood Test Volume And Diagnostics Sales Forecast by Market Segment
U.S., Oncogenes Test Volume and Diagnostics Sales Forecast by Market Segment
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U.S., Progesterone Receptor Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., PAP Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., PSA Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., S-100 Protein Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Serotonin Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Sialic Acid Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Squamous Cell Carcinoma Antigen Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., TDT Test Volume and Diagnostics Sales Forecast by Market Segment
U.S., Thymidine Kinase Test Volume and Diagnostics Sales Forecast by Market Segment
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U.S., AFP Testing Market Diagnostics Sales by Major Supplier
U.S., Beta-2 Microglobulin Testing Market Diagnostics Sales by Major Supplier
U.S., CA 15-3/27.29 Testing Market Diagnostics Sales by Major Supplier
U.S., CA 19-9 Testing Market Diagnostics Sales by Major Supplier
U.S., CA 125 Testing Market Diagnostics Sales by Major Supplier
U.S., CEA Testing Market Diagnostics Sales by Major Supplier
U.S., Ferritin Testing Market Diagnostics Sales by Major Supplier
U.S., HCG Testing Market Diagnostics Sales by Major Supplier
U.S., Insulin Testing Market Diagnostics Sales by Major Supplier
U.S., Parathyroid Hormone Testing Market Diagnostics Sales by Major Supplier
U.S., PAP Testing Market Diagnostics Sales by Major Supplier
U.S., Progesterone Receptor Testing Market Diagnostics Sales by Major Supplier
U.S., PSA Testing Market Diagnostics Sales by Major Supplier

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