



MEDICAL DEVICES



PHARMACEUTICALS



CHEMICALS



FOOD & BEVERAGE



ELECTRONICS

Table of Contents and List of Tables

Copyright VENTURE PLANNING GROUP
This material is confidential for use by our clients only
and may not be reprinted or reproduced.

VPG Publications, Consulting, Clients ***www.VPGcorp.com***

VPG Market Research Reports ***www.VPGMarketResearch.com***

Partner Reports ***www.LeadingMarketResearch.com***

VENTURE PLANNING GROUP 1271 Avenue of the Americas, Suite 4300 New York, NY 10020
Phone + 1 212 564 2838 Fax + 1 212 564 8133 ***reports@vpgcorp.com***

Table of Contents

I. Introduction

II. Worldwide Market Overview

1. Market Overview
2. Worldwide Market Structure
3. Worldwide Market Size and Growth

III. Major Product Development Opportunities

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

IV. Design Criteria for Decentralized Testing Products

V. Alternative Market Penetration Strategies

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies

VI. Potential Market Entry Barriers and Risks

- A. Market Maturity
- B. Cost Containment
- C. Competition
- D. Technological Edge and Limitations
- E. Patent Protection
- F. Regulatory Constraints
- G. Decentralized Testing Market Challenges

Table of Contents (continues)

VII. Worldwide Market and Technology Overview

A. Cancer Statistics and Etiology

1. Breast Cancer
2. Lung Cancer
3. Colon and Rectum Cancer
4. Prostate Cancer
5. Stomach Cancer
6. Leukemia
7. Lymphoma
8. Oral Cancer
9. Skin Cancer
10. Uterine Cancer
11. Ovarian Cancer
12. Bladder Cancer

B. Major Current And Emerging Cancer Diagnostic Tests

1. Introduction
2. Tumor Marker Classification
3. ACTH
4. Alpha-Fetoprotein (AFP)
5. Beta-2 Microglobulin
6. CA 15-3/27.29
7. CA 19-9
8. CA-125
9. Calcitonin
10. Carcinoembryonic Antigen (CEA)
11. Estrogen and Progesterone Receptors
12. Ferritin
13. Gastrin
14. Human Chorionic Gonadotropin (HCG)
15. Insulin
16. NSE
17. Occult Blood
18. PAP Smear/HPV
19. Prostatic Acid Phosphatase (PAP)
20. Prostate-Specific Antigen (PSA)
21. Squamous Cell Carcinoma Antigen (SCC)
22. T and B Lymphocytes

Table of Contents (continues)

- 23. TdT
- 24. Thyroglobulin
- 25. Tissue Polypeptide Antigen (TPA)
- 26. Biochemical Tumor Markers
- 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

Table of Contents (continues)

- 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

Table of Contents (continues)

- 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

Table of Contents (continues)

- 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

C. Cancer Diagnostic Testing Instrumentation Review and Market Needs

D. Current and Emerging Cancer Diagnostic Technologies

1. Monoclonal and Polyclonal Antibodies
2. Immunoassays
3. Molecular Diagnostics
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

E. Personal Testing

Table of Contents (continues)

VIII. Italy Cancer Diagnostics Market

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

IX. Competitive Profiles

- Abbott
- AdnaGen/Alere
- Agilent Technologies
- Applied Gene Technologies
- Arca Biopharma
- Beckman Coulter/Danaher
- Becton Dickinson
- Biomedical Diagnostics
- bioMerieux
- Bio-Rad
- CellSearch
- Cepheid
- Correlogic Systems/Vermillion
- Decode Genetics
- Diadexus
- Diagnocure
- Diasorin
- Eiken Chemical
- Elitech Group
- Enterix
- Enzo Biochem
- Epigenomics
- Exact Sciences
- Fujirebio
- Guided Therapeutics
- Hologic/Gen-Probe
- Kreatech/Leica
- Kyowa Medex
- Mackay Life Sciences
- Myriad Genetics
- OncoLab

Table of Contents (continues)

- Ortho-Clinical Diagnostics
- Panacea Pharmaceuticals
- Polartechnics
- Polymedco
- PreMD
- Qiagen
- Quest Diagnostics
- Radient Pharmaceuticals
- Roche
- Scienion
- Sequenom
- Siemens Healthcare
- Takara Bio
- Targeted Diagnostics & Therapeutics
- Tosoh
- Thermo
- Veridex
- Wako Pure Chemicals
- Wallac/PE
- Zila

X. Appendix: Major Universities and Research Centers Developing Cancer Diagnostic Technologies and Applications

List of Tables

Tumor Marker Classification

Major Companies Developing or Marketing
ACTH Tests

Major Companies Developing or Marketing
AFP Tests

Major Companies Developing or Marketing
Beta-2 Microglobulin Tests

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

List of Tables (continues)

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

List of Tables (continues)

Immunohistochemical Stains Potential
Applications in Cancer Diagnosis

Executive Summary Table: Italy, Total Tumor
Marker Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, Estimated Cancer Death Rates
Per 100,000 Population

Italy, Laboratories Performing Tumor
Marker Tests by Market Segment

Italy, Hospital Laboratories Performing
Tumor Marker Tests by Bed Size

Italy, Commercial/Private Laboratories
Performing Tumor Markers by Annual
Test Volume

Italy, Total Tumor Marker Test Volume
Forecast by Market Segment

Italy, All Market Segments Major Cancer
Diagnostic Test Volume Forecast

Italy, Hospital Laboratories Major Tumor
Marker Test Volume Forecast

Italy, Commercial/Private Laboratories
Major Tumor Marker Test Volume Forecast

Italy, Total Tumor Marker Test Market
Forecast by Market Segment

Italy, All Market Segments Major Tumor
Marker Sales Forecast by Test

Italy, Hospital Laboratories Major
Tumor Marker Forecast by Test

List of Tables (continues)

Italy, Commercial/Private Laboratories
Major Tumor Marker Sales Forecast by Test

Italy, ACTH Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, AFP Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Beta-2 Microglobulin Test Volume
And Diagnostics Sales Forecast by Market Segment

Italy, CA 15-3/27.29 Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, CA-19-9 Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, CA 125 Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Calcitonin Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, CEA Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, Chromogranin Test Volume
And Diagnostics Sales Forecast by Market Segment

Italy, Colon Specific Antigen Test Volume
And Diagnostics Sales Forecast by Market Segment

Italy, Cytokeratins Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Estrogen Receptor Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Ferritin Test Volume and Diagnostics
Sales Forecast by Market Segment

List of Tables (continues)

Italy, Gastrin Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, HCG Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Insulin Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Lymphocyte Subtyping Test Volume
And Diagnostics Sales Forecast by Market
Segment

Italy, NSE Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, Occult Blood Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Oncogenes Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Pancreatic Oncofetal Antigen Test
Volume and Diagnostics Sales Forecast
By Market Segment

Italy, PAP Smear Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Parathyroid Hormone Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Progesterone Receptor Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, PAP Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, PSA Test Volume and Diagnostics Sales
Forecast by Market Segment

List of Tables (continues)

Italy, S-100 Test Volume and Diagnostics
Sales Forecast by Market Segment

Italy, Serotonin Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Sialic Acid Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Squamous Cell Carcinoma Antigen Test
Volume and Diagnostics Sales Forecast
By Market Segment

Italy, TDT Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, Thymidine Kinase Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, Thyroglobulin Test Volume and
Diagnostics Sales Forecast by Market Segment

Italy, TPA Test Volume and Diagnostics Sales
Forecast by Market Segment

Italy, Total Tumor Markers
Sales by Major Suppliers

Italy, AFP Testing Market Diagnostics
Sales by Major Supplier

Italy, CEA Testing Market Diagnostics
Sales by Major Supplier

Italy, PSA Testing Market Diagnostics
Sales by Major Supplier