

# 2012 Japan Cancer Diagnostics Market Outlook: Growth Opportunities and Strategies



Phone: +44 20 8123 2220  
Fax: +44 207 900 3970  
office@marketpublishers.com  
<http://marketpublishers.com>

# 2012 Japan Cancer Diagnostics Market Outlook: Growth Opportunities and Strategies

Date:	April 17, 2012
Pages:	590
Price:	<del>US\$ 6,700.00</del> <b>US\$ 5,695.00</b>
ID:	F4E4B745E2DEN

This report presents a comprehensive analysis of the Japanese cancer diagnostics market, including:

- Major issues pertaining to the Japanese laboratory practice, as well as key economic, regulatory, demographic, social and technological trends with significant market impact during the next ten years.
- Mortality statistics and scientific views on the etiology of major types of cancer, e.g., lung, colorectal, breast, prostatic, pancreatic, leukemia, lymphoma, gastrointestinal, bladder, liver, ovarian, testicular, oral, skin and others.
- Ten-year test volume and sales forecasts for 40 cancer diagnostic procedures performed in Japanese hospitals and commercial laboratories.
- Placements and installed base of automated and semiautomated analyzers used for cancer testing.
- Current instrumentation technologies and feature comparison of leading analyzers.
- Sales and market shares of leading suppliers.
- Emerging diagnostic technologies and their potential market applications.
- Product development opportunities.
- Profiles of current and emerging suppliers, including their sales, market shares, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements and business strategies.
- Business opportunities and strategic recommendations for suppliers.

Contains 590 pages and 95 tables.

## Table of Content

### INTRODUCTION

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

### **C. INSTRUMENTATION REVIEW AND MARKET NEEDS**

1. Abbott AxSYM
2. Abbott Architect c4000
3. Abbott Architect i2000 Series
4. Abbott Architect ci8200 System
5. Beckman Coulter UniCel Series
6. Beckman Coulter Access
7. Binding Site ESP600
8. bioMerieux Mini Vidas
9. Carolina Chemistries BioLis 24i
10. DiaSorin Liaison
11. Horiba ABX Pentra 400
12. Inverness DS2
13. J&J Vitros ECi/ECiQ
14. J&J Vitros 3600
15. J&J Vitros 5600
16. Olympus AU5400
17. Olympus AU3000i
18. Olympus AU2700
19. Roche Modular Analytics
20. Roche Cobas Integra 400
21. Roche Cobas Integra 400 Plus
22. Roche Elecsys
23. Roche Cobas c311
24. Siemens ADVIA Centaur
25. Siemens Dimension
26. Siemens Dimension RxL Max
27. Siemens Dimension Vista 500
28. Siemens Immulite
29. Siemens Stratus
30. Tosoh AIA-Series
31. Vital Diagnostics ATAC 8000
32. Vital Diagnostics Envoy 500

### **D. CURRENT AND EMERGING TECHNOLOGIES**

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 Chromatography
- 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

## **E. PERSONAL TESTING**

### **JAPAN**

- A. Executive Summary
- B. Business Environment
- C. Market Structure
- D. Market Size, Growth and Major Suppliers

### **MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES**

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

### **DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS**

## **ALTERNATIVE MARKET PENETRATION STRATEGIES**

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies
  - 1. Marketing Approaches
  - 2. Product Complexity
  - 3. Customer Preference
  - 4. Established Suppliers
  - 5. Emerging Suppliers
  - 6. Major Types of Distributors
  - 7. Market Segmentation Factor

## **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

## **COMPETITIVE PROFILES**

Abbott  
AdnaGen  
Applied Gene Technologies  
Arca  
Beckman Coulter/Danaher  
Becton Dickinson  
Biomedical Diagnostics  
bioMerieux  
Bio-Rad  
Cepheid  
Correlogic Systems  
Dako  
Decode  
Diadexus  
Diagnocure  
Diasorin  
Eiken Chemical  
Enterix  
Enzo Biochem  
Epigenomics  
Exact Sciences  
Fujirebio  
Gen-Probe  
Guided Therapeutics  
Hologic  
Ipsogen  
Kreatech  
Kyowa Medex  
Life Technologies



Mackay Life Sciences  
Myriad Genetics  
Nanogen Elitech  
OncoLab  
Otho-Clinical Diagnostics  
Panacea Pharmaceuticals  
Polartechnics  
Polymedco  
PreMD  
Qiagen  
Radiant Pharmaceuticals  
Roche  
Scienion  
Sequenom  
Siemens Healthcare  
Takara Bio  
Targeted Diagnostics & Therapeutics  
Tosoh  
Veridex  
Wako Pure Chemicals  
Wallac/PE  
Zila

## **APPENDIXES**

Appendix I: Major Universities and Research Centers Developing Cancer Diagnostic Technology and Applications

Appendix II: Assumed Currency Exchange Rates

## **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  
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  
Executive Summary Table: Japan, Total Tumor Marker Test Volume and Sales Forecast by Market Segment  
Japan, Estimated Cancer Death Rates Per 100,000 Population  
Japan, Laboratories Performing Tumor Marker Tests by Market Segment  
Japan, Hospital Laboratories Performing Tumor Marker Tests by Bed Size  
Commercial/Private Laboratories Performing Tumor Marker Tests By Annual Test Volume  
Japan, Total Tumor Marker Testing Volume Forecast by Market Segment  
Japan, All Market Segments Major Tumor Marker Test Volume Forecast  
Japan, Hospital Laboratories Major Tumor Marker Test Volume Forecast by Test  
Japan, Commercial/Private Laboratories Major  
Tumor Marker Test Volume Forecast  
Japan, Total Tumor Marker Sales Forecast by Market Segment  
Japan, All Market Segments Major Tumor Marker Sales Forecast by Test  
Japan, Hospital Laboratories Major Tumor Marker Sales Forecast by Test  
Japan, Commercial/Private Laboratories Major Tumor Marker Sales Forecast by Test  
Japan, ACTH Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, AFP Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Beta-2 Microglobulin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, CA 15-3/27.29 Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, CA 19-9 Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, CA-125 Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Calcitonin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Cathepsin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, CEA Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Chromogranin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Colon-Specific Antigen Test Volume And Diagnostics Sales Forecast by Market Segment  
Japan, Cytokeratins Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Estrogen Receptor Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Ferritin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Gastrin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, HCG Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Insulin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Interferons Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Interleukins Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Lymphocyte Subtyping Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, NSE Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Nucleolar Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Occult Blood Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Oncogenes Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Pancreatic Oncofetal Antigen Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, PAP Smear Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Parathyroid Hormone Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Progesterone Receptor Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, PAP Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, PSA Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, S-100 Protein Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Serotonin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Sialic Acid Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Squamous Cell Carcinoma Antigen Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, TDT Test Volume and Diagnostics Sales Forecast by Market Segment

Japan, Thymidine Kinase Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Thyroglobulin Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, TPA, Test Volume and Diagnostics Sales Forecast by Market Segment  
Japan, Total Tumor Marker Sales by Major Suppliers  
Japan, AFP Testing Market Diagnostics Sales by Major Supplier  
Japan, CA 15-3/27.29 Testing Market Diagnostics Sales by Major Supplier  
Japan, CA 19-9 Testing Market Diagnostics Sales by Major Supplier  
Japan, CA 125 Testing Market Diagnostics Sales by Major Supplier  
Japan, Calcitonin Testing Market Diagnostics Sales by Major Supplier  
Japan, PAP Testing Market Diagnostics Sales by Major Supplier  
Japan, PSA Testing Market Diagnostics Sales by Major Supplier

### I would like to order:

**Product name:** 2012 Japan Cancer Diagnostics Market Outlook: Growth Opportunities and Strategies  
**Product link:** <http://marketpublishers.com/r/F4E4B745E2DEN.html>  
**Product ID:** F4E4B745E2DEN  
**Price:** US\$ 5,695.00 (Single User License / Electronic Delivery)

*If you want to order Corporate License or Hard Copy, please, contact our Customer Service: [office@marketpublishers.com](mailto:office@marketpublishers.com)*

### Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click 'BUY NOW' button on product page <http://marketpublishers.com/r/F4E4B745E2DEN.html>

### To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
E-mail:  
Company:  
Address:  
City:  
Zip/Post Code:  
Country:  
Tel:  
Fax:  
Your message:

\* All fields are required

Customer Signature \_\_\_\_\_

Please, note that by ordering from MarketPublisher.com you are agreeing to our Terms & Conditions at [http://marketpublishers.com/docs/terms\\_conditions.html](http://marketpublishers.com/docs/terms_conditions.html)

To place an order via fax simply print this form, fill in the information below and fax the completed form to **+44 20 7900 3970**