



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***

# **Analysis of Emerging Molecular Diagnostic Tests And Strategic Profiles of Leading Suppliers**

## **Table of Contents**

### **Microbiology/Infectious Diseases**

- a. Overview
- b. Major Infectious Diseases
  - AIDS: HIV/HIV-1/2/Combo, HIVAg/HIV NAT, Western Blot, HTLV-I/II
  - Adenovirus
  - Aeromonas
  - Anthrax/Bacillus Anthracis
  - Arboviruses
  - Babesiosis
  - Bacillary Epithelioid Angiomatosis (BEA) and Other Bartonella (Rochalimaea)
  - Blastocystis Hominis
  - Brucella
  - Campylobacter
  - Candida
  - Chagas Disease
  - Chancroid
  - Chlamydia
  - Clostridium Difficile
  - Coronaviruses
  - Coxsackieviruses
  - Creutzfeldt-Jakob's Disease
  - Cryptosporidium Parvum
  - Cyclospora Cayetanensis
  - Cytomegalovirus
  - Ebola Virus
  - E. Coli
  - EchoVirus
  - Encephalitis
  - Enteroviruses
  - Epstein-Barr Virus
  - Giardia Lambliia
  - Gonorrhea

## Table of Contents (continued)

- Granuloma Inguinale
- Hantavirus
- Helicobacter Pylori
- Hepatitis: HAV NAT, HBV NAT, HBs Ag, HCV, HCV NAT, Anti-HBc, Anti-HBs, Anti-HAV, Hepatitis Delta, HBc Ag, HBe Ag, ALT/SGPT
- Herpes Simplex Virus
- Human Herpes Virus-6 (HHV-6)
- Influenza Viruses
- Legionella
- Lyme Disease
- Lymphogranuloma Venereum (LGV)
- Malaria
- Measles (Rubeola)
- Meningitis
- Microsporidium
- Mononucleosis
- Mumps
- Mycoplasma
- Papillomaviruses
- Parvovirus B19
- Pneumonia
- Polyomaviruses
- Pseudomonas Aeruginosa
- Rabies
- Respiratory Syncytial Virus (RSV)
- Rhinoviruses
- Rotavirus
- Rubella
- Salmonellosis
- Septicemia
- Shigellosis
- Staphylococcus Aureus
- Streptococci
- Syphilis
- Toxoplasmosis
- Trichomonas Vaginalis
- Tuberculosis
- Vibrio
- West Nile Virus
- Yersina

## Table of Contents (continued)

### **Cancer Testing**

- a. Overview
- b. Major Cancer Types
  - \* Prostate
  - \* Lung
  - \* Colon and Rectum
  - \* Breast
  - \* Skin
  - \* Uterine
  - \* Leukemia
  - \* Oral
- c. Oncogenes
  - o Abl/abl-bcr
  - o AIB1
  - o BCL-2
  - o BRCA1
  - o CD44
  - o C-fos
  - o C-myb
  - o C-myc
  - o CYP17
  - o Erb-B
  - o HPC1
  - o N-myc
  - o P40
  - o P51
  - o P53
  - o PIK3CA
  - o PTI-1
  - o Ras
  - o Reg
  - o Sis
  - o Src

### **Genetic Diseases**

- a. Overview
- b. Nucleic Acid Amplification
- c. Chromosome Imaging
- d. Genomics Technologies

## **Table of Contents** (continued)

- e. Proteomics Technologies
- f. Current Pharmacogenomic Tests
- g. Future Pharmacogenomic Testing
- h. Major Diseases
  - \* Achondroplasia
  - \* Autosomal Dominant Polycystic Kidney Disease
  - \* Cancer
  - \* Cosmetogenomics
  - \* Cystic Fibrosis
  - \* Down's Syndrome
  - \* Duchenne and Becker Muscular Dystrophy
  - \* Factor V (Leiden)
  - \* Factor IX Deficiency
  - \* Fragile X Syndrome
  - \* Heart Disease
  - \* Hemochromatosis
  - \* Hemophilia
  - \* Huntington's Disease
  - \* Maternal-Fetal Incompatibility
  - \* Multiple Endocrine Neoplasia
  - \* Phenylketonuria (PKU)
  - \* Polycystic Kidney Disease (PKD)
  - \* Prenatal Screening
  - \* Retinitis Pigmentosa
  - \* Retinoblastoma
  - \* Sickle Cell Anemia
  - \* Spinal Muscular Atrophy
  - \* Vitamin B12 Metabolism
- i. Social Issues and Concerns

### **Forensic Testing**

- a. Overview
- b. Multilocus and Single Locus Probes
  - \* Multilocus Probes
  - \* Single Locus Probes
  - \* PCR and RFLP
- c. The FBI
- d. DNA Profile Data Banks
  - \* U.S.A.
  - \* U.K.

## **Table of Contents** (continued)

- e. Judicial Implementation
- f. Major Crime Categories
- g. Factors Contributing to the DNA Probe Market Expansion
  - \* Technology Availability
  - \* Use of Hair as Evidence
- h. Wildlife Forensics

### **Paternity Testing/HLA Typing Other Applications**

- a. Disease Susceptibility Testing
- b. Cardiovascular Diseases
- c. Diabetes
- d. Alzheimer's Disease
- e. Periodontal Disease
- f. Plasma Purification
- g. Organ Transplantation
- h. Water Contamination
- i. Other

### **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

## **Table of Contents** (continued)

- Enzo
- Exact Sciences
- Fujirebio
- Grifols
- Hologic/Gen-Probe
- Illumina
- Kreatech
- Li-Cor Biosciences
- Monogram Biosciences/LabCorp
- Myriad Genetics
- Ortho-Clinical Diagnostics
- Perkin Elmer/Caliper
- Proteome Sciences
- Qiagen
- Roche
- Scienion
- Sequenom
- Shimadzu
- Siemens
- Sierra Molecular
- Takara Bio
- Tecan Group
- Thermo Fisher

## **List of Tables**

Major Companies Developing or Marketing AIDS Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Adenovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Bartonella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Campylobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Candida Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Chlamydia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Clostridium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Coronavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Cryptosporidium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing CMV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Echovirus Molecular Diagnostic and Other Direct Identification Tests



**List of Tables** (continued)

Major Companies Developing or Marketing Enterovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing EBV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Giardia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Gonorrhea Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hantavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Helicobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hepatitis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Herpes Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Influenza Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Legionella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Lyme Disease Molecular Diagnostic and Other Direct Identification Tests

**List of Tables** (continued)

Major Companies Developing or Marketing Measles  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Meningitis  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Mononucleosis  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Mumps  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Mycoplasma  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Pneumonia  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing RSV  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Rotavirus  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Rubella  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Salmonella  
Molecular Diagnostic and Other Direct  
Identification Tests

**List of Tables** (continued)

Major Companies Developing or Marketing Septicemia  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Shigella  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Streptococci  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Syphilis  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Toxoplasmosis  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Trichomonas  
Molecular Diagnostic and Other Direct  
Identification Tests

Major Companies Developing or Marketing Tuberculosis  
Molecular Diagnostic and Other Direct  
Identification Tests

Oncogenes Potential Application in Cancer Diagnosis

Major Companies Developing or Marketing Cancer  
Molecular Diagnostic Tests

Major Companies Developing or Marketing Molecular  
Diagnostic Tests For Genetic Diseases