

## **CHAPTER ONE: EXECUTIVE SUMMARY**

- Introduction
- Scope and Methodology
- Size and Growth of the Market
- Market Trends

## **CHAPTER TWO: INTRODUCTION**

- Background - Developments since 2000
- New Platforms
- Quality Control Products
- Building a strong future - hot, hot, hot
- The sequence begins
- Personalizing Risk and Therapies
- LDTs reign
- The \$1000 Genome - If and When
- Luke warm Trends
- Miniaturization and Multiplexed Assays
- Integrated Sample Preparation and System Automation
- Mass Spectroscopy
- Screening for Wellness

## **CHAPTER THREE: THE COMMERCIALIZATION CONUNDRUM**

- Background
- Reimbursement of Novel Tests
- Regulatory Issues and Molecular Assays
- Commercializing Molecular Diagnostics -  
Physician Acceptance
- U.S. Health Care Reform and Molecular Testing

## **CHAPTER FOUR: MARKET ANALYSIS**

- Background
- Worldwide opportunities for molecular tests
- The United States
- Europe
- Japan
- China
- India
- Molecular diagnostics and target markets
- The market for molecular assays in cancer management
- Liquid Biopsies - CTCs
- Tumor Markers
- Sequencing
- Chromosome Analysis
- The market for molecular Assays in hematology

The market for molecular Assays in coagulation  
The market for molecular Assays in histopathology/cytology  
Overview  
The Pap Smear & HPV testing  
FISH Goes Digital, Multiplexed and Quantitative  
Tissue Microarrays  
Pharmacodiagnostic Test Applications

## **CHAPTER FIVE: CONCLUSIONS AND STRATEGIC IMPLICATIONS - 2015 AND BEYOND**

Conclusion One  
Implication  
Conclusion Two  
Implication  
Conclusion Three  
Implication  
Conclusion Four  
Implication  
Conclusion Five  
Implication  
Conclusion Six  
Implication  
Conclusion Seven  
Implication  
Conclusion Eight  
Implication

## **CHAPTER SIX: MAJOR COMPANIES AND VENDORS TO WATCH**

Background  
Acquisitions, Alliances and Collaborations in Molecular Diagnostics  
Company Triage  
The Majors  
Abbott Diagnostics  
Recent Revenue History )  
Key Comment  
Molecular Histology  
Molecular Diagnostics  
Microbiology  
Molecular Sample Prep  
Alere (formerly Inverness Medical Innovations)  
Recent Revenue History  
Key Comment  
Becton, Dickinson and Company (BD)  
Recent Revenue History  
Key Comment

Histology  
Microbiology  
Expanding Molecular Testing Capabilities.  
Beckman Coulter Inc.  
Recent Revenue History  
Key Comment  
Research Markets  
bioMérieux Inc.  
Marcy L'etoile, France [www.bioMérieux.fr](http://www.bioMérieux.fr) Recent Revenue History  
Key Comment  
Molecular  
Gen-Probe Inc.  
Recent Revenue History  
Key Comment  
GTI acquisition  
Transplant/HLA testing  
Infectious Diseases  
Blood Bank  
Oncology  
Hologic, Inc.  
Recent Revenue History  
Key Comment  
Histology  
Instrumentation Laboratory (IL)  
Recent Revenue History  
Key Comment  
QIAGEN N.V.  
Recent Revenue History  
Key Comment  
Histology  
Infectious Diseases  
Oncology  
Roche Diagnostics  
Recent Revenue History  
Key Comment  
Histology  
H1N1/ Applied Sciences  
PCR  
Infectious Diseases  
Blood Bank  
Personalized Medicine - Companion Tests  
Research  
Siemens Healthcare Diagnostics  
Recent Revenue  
Key Comment  
Sysmex Corporation

Recent Revenue History:  
Key Comment  
Thermo Fisher Scientific Inc.  
Recent Revenue History  
Key Comment

## **THE PARTICIPANTS**

Affymetrix, Inc.  
Recent Revenue History  
Key Comment  
Agendia BV  
Recent Revenue History  
Key Comment  
Agilent Technologies Inc.  
Recent Revenue History  
Key Comment  
Asuragen, Inc.  
Recent Revenue History  
Key Comment  
AviaraDx (biomerieux)  
Ambry Genetics  
Recent Revenue History  
Key Comment  
Bio-Reference Laboratories, Inc. (BRLI)  
Recent Revenue History  
Key Comment  
Caliper Life Sciences, Inc.  
Recent Revenue History  
Key Comment  
China Medical Technologies, Inc.  
Recent Revenue History  
Key Comment  
Clariant Inc. (formerly ChromaVision)  
Recent Revenue History  
Key Comment  
deCode genetics ehf  
Recent Revenue History  
Key Comment  
and others...

## **THE STARS**

AdvanDx, Inc.  
Recent Revenue History  
Key Comment  
Celera Diagnostics

Recent Revenue History  
Key Comment  
Berkeley HeartLab (BHL)  
Product Development  
Cepheid  
Key Comment  
Instrumentation  
DxS Ltd.  
Recent Revenue history  
Key Comment  
and others...

### **NEWCOMERS**

Akonni Biosystems Inc.  
Applied BioCode, Inc.  
Arrayit Diagnostics Inc.  
Exiqon A/S  
and others...

### **HIGH POTENTIAL COMPANIES**

AdnaGen AG  
Allegro Diagnostics  
and others...

### **HISTOLOGY SPECIALISTS**

Advanced Cell Diagnostics  
Perceptronix Medical Inc. (PMI Labs)

### **MICROBIOLOGY SPECIALISTS**

Adnavance Technologies Inc.  
CapitalBio Corporation  
Cooperative Diagnostics, LLC  
and others...

### **QUALITY CONTROL SPECIALISTS**

AcroMetrix  
Bio-Rad Laboratories Inc.  
ParagonDx LLC (formerly Gentris Diagnostics Inc.)

### **SAMPLE PREP SPECIALISTS**

Arcxis Biotechnologies

Argylla Technologies LLC  
Biomatrica, Inc.  
and others...