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Bioinformatics in IVD Testing

https://marketpublishers.com/r/B43AC0A3CC2EN.html
Date: June 2013
Pages: 198
Price: US$ 1,995.00 (Single User License)
ID: B43AC0A3CC2EN

Abstracts

Computer diagnostics could offer opportunity for clinical laboratory professionals to add value to clinicians in diagnosing diseases. IT companies in collaboration with test vendors are developing computer software that complements the skills of human test interpretation.

This report, Bioinformatics in IVD Testing looks at the various IVD market segments where bionformatics is expected to have the most impact.

Bioinformatics-based testing has made a huge contribution to cancer diagnosis and therapy management. In infectious disease diagnostics it allows the detection of difficult to culture pathogenic bacteria or viruses and to uncover the epidemiology of infections. The bioinformatic analysis of mutations of known human genes is used to diagnose common disorders, inherited diseases, or different types of cancer and can indicate the prognosis of malignant diseases.

What developments are driving this trend? What are labs and providers doing to incorporate these products into practice? And how are payors and regulators reacting? Who is partnering with who to deliver a solid combination product? This report delves into these issues and provides an excellent round-up of the current status of bioinformatics in the IVD industry.

As part of its coverage, the report provides information on the following developments:

Selected Diagnostic Tests That Incorporate Bioinformatics

Selected Multiplexed Tissue-Based Cancer Tests

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Selected Histology Analyses Software Tools

Selected Blood-Based Cancer Biomarker Tests That Use Software Analysis Tools

Selected Chronic Diseases Tests With Integrated Bioinformatics

Selected Innovations in Bioinformatic-Based Tests For Psychiatric Disorders

Selected Systems For Bioinformatics-Based Infectious Disease Testing

Selected Next Generation Sequencing Platforms

The report discusses tests and technologies that are currently available and those that are expected to take their place. Generally, current products and technologies establish the standard of care and its value to payers. Many of the assays and techniques presented in the report are expected to replace the standard of care in 2013, but with healthcare systems' emphasis on cost/benefit analysis for new technologies adoption, the market value and thus penetration capabilities of newer approaches may be limited.

The report looks at the bioinformatics-based product offerings and developments of the following companies, among others:

Abbott

Cannon

RocheAffymetrix Inc.

AssureRx Health, Inc.

Bio-Reference Laboratories, Inc. (BRLI)

Dako A/S

Siemens

Thermo Fisher

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Medtronic Inc.

PerkinElmer, Inc.

Prometheus Labs

QIAGEN N.V.

Quest

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Gastrointestinal Conditions
Alzheimer’s Disease
Parkinson’s Disease
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Ameritox Ltd.
Aperio Technologies, Inc.
ArcticDx Inc.
Arrayit Diagnostics Inc.
AssureRx Health, Inc.
Atossa Genetics, Inc.
BG Medicine, Inc.
Biodesix, Inc.
BioImagene
Bio-Reference Laboratories, Inc. (BRLI)
bioTheranostics
Breath Testing at Home
CardioDx, Inc.
Children’s Hospital of Philadelphia:
Chronix Biomedical Inc.
CombiMatrix Molecular Diagnostics, Inc.
Complete Genomics
Crescendo Bioscience, Inc.
Dako A/S
deCode genetics ehf

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Diaxonhit Group
DiaGenic ASA
DiaTech Oncology
Duke University Medical Center
Everist Genomics, Inc. (EGI)
Foundation Medicine. Inc
Genelex Corporation
Genomic Health, Inc.
Health Discovery Corporation (HDC)
Inform Genomics
Lab21 Limited
Life Technologies
Massachusetts Institute of Technology
Mayo Medical Laboratories
Medtronic Inc.
Metabolon Inc.
Omnyx, LLC
One Lambda, Inc.
Oregon Health & Science University (OHSU)
Pathogenica
Pathway Genomics
PerkinElmer, Inc.
PGXL Laboratories
Prometheus Laboratories Inc.
Qiagen N.V
Ridom GmbH
Selventa
Signal Genetics
Tethys Bioscience Inc.
Stanford University
University of Houston
XDx Inc. – Expression Diagnostics

CHAPTER SEVEN: COMPANY PROFILES: INFORMATION TECHNOLOGY SPECIALISTS

Access Genetics
BioDiscovery, Inc.
CLC bio

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CollabRx, Inc. (formerly Tegal Corp)
Definiens
eGenomics
GeneInsight LLC
GenomeQuest Inc.
IBM Corporation
Ingenuity Systems
Knome Inc.
NSilico
Personalis
Signature Mapping Medical Sciences, Inc.
Silicon Valley Biosystems (SV Bio)

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About

IDBS (Guilford, UK) has developed the Biomolecular Hub that enables allrelevant data and annotations for a particular gene or protein to be quickly and easilyfound regardless of data format. The Biomolecular Hub provides bioinformaticsorganizations with a unique data and result management capability that can easilyintegrate with existing tools and analysis environments. It indexes metadata from alltypes of molecular output files, including NGS, gene expression, arrayCGH, GenomeWide Association Study (GWAS) and proteomics, to provide a managed file store withunique security, audit and search capabilities. Genomic variant and analysis results arestored and associated with their source files to ensure traceability and reproducibility ofresults.

January 2013, Weill Cornell Medical College and New York-PresbyterianHospital have created the Institute for Precision Medicine at Weill Cornell and NewYork-Presbyterian/Weill Cornell Medical Center. This new translational medicineresearch hub will explore the new frontier of precision medicine, offering optimaltargeted, individualized treatment based on each patient's genetic profile. The institute'snew genomic research discoveries will help develop novel, personalized medicaltherapies to be tested in innovative clinical trials, while also building a comprehensivebiobank to improve research and patient care.

Physician-scientists at the Institute aim to identify the genetic influencers of apatient's specific illness such as cancer, cardiovascular disease, neurodegenerative diseaseand others and use this genetic information to design a more-effective course of treatmentthat targets those specific contributing factors.

The Diagnostic Algorithms Subgroup will publish diagnostic algorithms forchallenging clinical scenarios to demonstrate the complexity of choosing the mostappropriate test(s) to support an accurate diagnosis and treatment. It will also developinformation technology tools using decision support algorithms to help clinicians chooseappropriate tests and improve patient outcomes.

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