# **Bio-IT World**

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## About Bio-IT World

Part of Healthtech Publishing, Bio-IT World provides outstanding coverage of cutting-edge trends and technologies that impact the management and analysis of life sciences data, including next-generation sequencing, drug discovery, predictive and systems biology, informatics tools, clinical trials, and personalized medicine. Through a variety of sources including, Bio-ITWorld.com, Weekly Update Newsletter and the Bio-IT World News Bulletins, Bio-IT World is a leading source of news and opinion on technology and strategic innovation in the life sciences, including drug discovery and development.

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## **Animal Models**

### hTME-3DX Screen and Verify

BioDuro 11011 Torreyana Road San Diego, CA 92129 (858) 552-6690 www.bioduro.com

Humanized tumor microenvironment, three-dimensional drug screening and patient-derived xenograft verification platform.

## **ONCOREF MAPK Mutation Panel Reference Standards**

Applied StemCell Inc. 521 Cottonwood Drive, Suite 111 Milpitas, CA 95035 (408) 773-8007 www.appliedstemcell.com

Applied StemCell is a California-based biotech company that is employing the most advanced genome editing technologies for the generation of molecular reference standards. Our existing, ONCOREFM product series, features the largest MAPK mutation panel currently on the market. In addition to off-the-shelf products, we offer custom services and collaborative efforts to help advance the next generation of molecular reference standards.

### PDOX® Pre-Clinical Research Services

AntiCancer PDOX, Inc. 7917 Ostrow Street San Diego, CA 92111 (858) 654-2555 anticancerpdox.com

The PDOX technique is the most clinically accurate mouse cancer model, especially with regard to metastasis and drug sensitivity. Using GFP imaging, primary tumor growth and metastases can be tracked in real-time. Effective drugs can be rapidly discovered and evaluated in PDOX models utilizing human tumor cell lines and patient tumors. We provide customized contract services for in vivo drug evaluation, including developing cancer models and design of individual protocols.

#### Vevo 3100

Fujifilm, Visualsonics Inc. 3080 Yonge Street Tornoto, Canada M4N3N1 (416) 580-0258 www.visualsonics.com

The Vevo 3100 is a new and innovative platform created for the future of imaging. It combines ultra high-frequency ultrasound imaging, quantification and education in a convenient easy to use all-in-one platform designed for small animal studies.

## Backup & Recovery

### **NODEUM**

MT-C S.A. Rue Ernest Solvay 29 A Liège, Belgium 4000 mt-c.com/

MT-C has reinvented intelligent storage to create innovative and strategic storage solutions encompassing today's market challenges. MT-C has designed and developed NODEUM, a forefront Software-Defined Storage appliance. It delivers unique combination of intelligent data analytics layer and virtualized file system distributing data on hybrid storage. MT-C has become a key actor in industries that are facing the big data explosion such as the life science and genomics..

## **Bioinformatics**

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Systems Imagination Inc. 7730 E. Greenway Suite 205 Scottsdale, AZ 85260 www.systemsimagination.com

Systems Imagination offers tech-enabled services to accelerate the discovery and evolution of scientific knowledge. Sll's Big Data to Knowledge Solution uses a proprietary knowledge computing platform and expert analytical services by world-class team of experts, enabling clients to translate Big Data into useful scientific knowledge with unprecedented speed and precision.

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### **BIOVIA Insight 2017 R2**

Dassault Systèmes BIOVIA 5005 Wateridge Vista Drive San Diego, CA 92121 (415) 694-6795 accelrys.com/

BIOVIA Insight 2017 R2 marks a large step forward in BIOVIA Insight's data aggregation and performance capabilities for large data sets. 500,000 data points can now be plotted in under three seconds and new charting capabilities including support for deep data plotting and series plots builds upon an already strong collection of visualization tools such as 2D SAR heat maps and custom radar plots.

### **BD Rhapsody™ Single Cell Analysis System**

Becton, Dickinson and Company 1 Becton Drive Franklin Lakes, NJ 07417-1880 (650) 665-2400 www.bd.com/

BD Rhapsody is a single-cell analysis system of reagents, instruments, and software that enables targeted RNA expression analysis. Rhapsody can generate similar results as whole transcriptome analysis at a fraction of time and cost. Available with application-specific targeted panels and custom targeted panels. BD plans to expand capabilities rapidly, including protein expression analysis assays available now through an early access program with commercial availability planned for 2018.

## Clinical Trial Data Analysis, Biostatistics Consulting

AmPharm Statistics 296 Engle Street Tenafly, NJ 07670 (844) 674-3377

ampharmstatistics.com/statistics/

AmPharm Statistics specializes in Pharmaceutical Statistics and Reporting. Our team of elite statisticians, programmers, and medical writers can provide your pharmaceutical company with top notch consulting services to satisfy your needs.

### Cofactor FFPExact

Cofactor Genomics
4044 Clayton Avenue
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Low-quality RNA-Seq. With the vast majority of patient samples and clinical archives stored as FFPE tissue, a reliable solution for chemically-modified and fragmented RNA is required. FFPExact evaluates RNA fragmentation via DV200 analysis, then applies standardized library prep protocols to guarantee reproducible, interpretable results. Delivers: 1) Non-biased analysis of fragmented RNA 2) Minimal reads lost to ribosomal content 3) Access to valuable clinical archives and patient samples.

### Cofactor mRNAble

Cofactor Genomics 4044 Clayton Avenue St. Louis, MO 63110 (314) 531-4647 www.cofactorgenomics.com

RNA-seq poly(A) enrichment of mRNA species in your samples. Focus your sequencing reads on coding regions of the transcriptome with 30- or 60-million reads, guaranteed, with 3 week turnaround. Make the most of your analysis with transcript annotation. Excellent approach for model and non-

## model organisms, alike. Cofactor picoRNA

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Low-input RNA Expression Characterization. Perfect for precious biological samples resulting from: LCM, sorted cells, FNAs, or other small snap-frozen tissue biopsies that yield minimal, yet high-quality RNA (< 250 ng). Cofactor has developed this robust amplification protocol to allow unbiased interpretation of transcriptome data from as low as 10-20 cells (100 pg of RNA).

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### Microbiome Discovery Service

Second Genome Solutions 341 Allerton Avenue South San Francisco, CA 94080 (650) 489-7871

www.secondgenome.com/solutions/

Second Genome Solutions offers an end-to-end Microbiome Discovery Service allowing you to go from Sample to Smarter. Each project is customized to your specific study and includes sample collection logistics, nucleic acid isolation, raw data generation, bioinformatics, and data interpretation.

Second Genome has developed an industry leading Microbial Profiling platform built on proprietary databases that has been used on over 400 projects and processed over 75,000 samples.

### miRNAble

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Small RNA-seq. Enrichment of small RNA molecules including miRNA, snoRNA, and more. Economical read depth (10 million reads) ensures high coverage of desired molecules. Annotation using comprehensive database and comparative expression analysis. Cofactor's small RNA characterization is optimized for total RNA samples, which streamlines sample delivery for you.

## Online Master of Advanced Study in Health Informatics

Arizona State University Online 1365 N Scottsdale Road Scottsdale, AZ 85257 (866) 277-6589 asuonline.asu.edu

ASU Online is dedicated to providing innovative, high-quality online education to Sun Devils from across the country and around the world. ASU's Master of Advanced Study in Health Informatics, offered online through the Department of Biomedical Informatics, provides an innovative approach to combine information technology, computer science and knowledge management to improve health. The MAS program is offered entirely online and can be taken full-time or part-time.

### SeqsLab

Atgenomix
Rm. 918, 9F, 96, Chia Hsin Bldg. (Second Bldg.) Sec. 2,
Zhongshan N. Rd., Zhongshan Dist.
Taipei, Taiwan
+88 69-860-89616
www.atgenomix.com

Enterprise-grade analysis platform for your NGS whole genome and exome best practices powered by Apache Spark/Hadoop: 10X FASTO, BAM to VCF acceleration; 50% Lower computing cost; 4hrs BWA/GATK workflow turnaround

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BioInfoPLATFORM is a flexible and user-friendly bioinformatics distributed computational system. It is meant to provide an intuitive and user -friendly interface for building pipelines (chains) of bioinformatics algorithms for the analysis of big data: NG genomics and transcriptomics sequencing, mass-spectroscopy proteomics/metabolomics, as well as phenotypic visual information and knowledge databases.

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ampharmstatistics.com/statistics/

AmPharm Statistics specializes in Pharmaceutical Statistics and Reporting. Our team of elite statisticians, programmers, and medical writers can provide your pharmaceutical company with top notch consulting services to satisfy your needs.

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XIFIN ProNet: Physician Collaboration and Clinical Data Management

XIFIN RPM (Revenue Performance Management) give laboratories the ability to take control of their billing operations and financial performance. Maximize your financial performance with a technology platform and optimized business processes. Gain control and visibility over reimbursement and AR, with auditable, GAAP & SOX-compliant, scalable solution.

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Insight Pharma Reports 250 First Avenue, Suite 300 Needham, MA 02494 Phone: 781-972-5400 www.insightpharmareports.com



Insight Pharma Reports are written by experts in consulting and industry who collaborate with us to provide a series of reports that evaluate the salient issues in pharmaceutical technology, business, and therapy markets. Insight Pharma Reports are used by leading pharmaceutical, biotech, diagnostic, consulting, and financial companies to keep abreast of the latest advances in pharmaceutical R&D, their potential applications and business impacts, and their current and future position in the marketplace.

## Cellular Analysis

### **Cell Counting Kit-8 (CCK-8)**

Abbkine Scientific

Bldg 1, Harbour of Technology Times, No.35, Optical Valley Avenue

Wuhan, China 430074 0-27-597-16789

www.abbkine.com

Cell Counting Kit-8 (CCK-8) is designed to detect cell proliferation and cell toxicity based on WST-8 is reduced by dehydrogenases in cells to give an orange colored product (formazan). The amount of the formazan in cells is directly proportional to the number of living cells. Tests confirm that performance equals or exceeds popular CCK-8 kit from other suppliers.

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XIFIN ProNet: Physician Collaboration and Clinical Data Management Collaborate and communicate across departments, disciplines. and organizations in a cloud-based exchange of diagnostic images, clinical data, and other patient encounter information. XIFIN ProNet enables consolidated storage, sharing, and usage of clinical and financial images and information with a webbased enterprise class data repository and integrated workflows.

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#### **Asset Panda**

www.assetpanda.com/ 3001 Dallas Parkway, Suite 580 Frisco, TX 75034 (855) 898-6058 www.assetpanda.com/

Asset Panda supplies asset tracking software and a free mobile app with built-in scanner to track everything from equipment, to inventory, to schedules. Asset Panda provides the platform. hosted in the cloud, which is completely customizable for businesses and people to track the things they need to.

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Humanized tumor microenvironment, three-dimensional drug screening and patient-derived xenograft verification platform.

### iSpecimen Marketplace

iSpecimen 450 Bedford Street, Suite 1100 Lexington, MA 02420 (781) 301-6700 www.ispecimen.com

The iSpecimen Marketplace provides researchers with the specimens they need from the patients they want. It connects healthcare organizations that have access to patients and specimens, including biofluids, solid tissues, and viable cells. with scientists who need them. Researchers log on and gain instant access to millions of specimens anytime, anywhere. Provider organizations gain an opportunity to contribute their specimens compliantly to medical research as well as enhance their bottom line.

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### **Cofactor Paragon**

Cofactor Genomics 4044 Clayton Avenue St. Louis, MO 63110 (314) 531-4647

www.cofactorgenomics.com

Paragon: Profiling micro-environment cell report for Immunooncology. Cofactor Paragon reports on the cellular components of the tumor micro-environment. 32 cell types are reported and provide valuable insight in studies aimed at understanding how the micro-environment and the immune activity plays a key role in efficacy of treatment.

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#### **Cofactor Pinnacle**

Cofactor Genomics 4044 Clayton Avenue St. Louis, MO 63110 (314) 531-4647

www.cofactorgenomics.com

Pinnacle: The RNA-based biomarker panel for cancer. Cofactor Pinnacle enables the identification of important cancer associated features, not detectable by DNA sequencing alone. Pinnacle measures the RNA expression of 318 prominent cancer genes, identifies those with oncogenic expression, and enables fusion identification in 283 critical cancer associated genes from any type of formalin-fixed or fresh frozen solid tumor in a CAP-CLIA certified lab.

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### trans-Zeatin

Musechem 7220 Rosemead Boulevard Suite 202-10 San Gabriel, CA 91775 (800) 259-7612

www.musechem.com

trans-Zeatin is a member of the plant hormone family known as 'cytokinins', which regulate cell division, development, and nutrient processing.

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### sciNote ELN

sciNote LLC 3000 Parmenter Street Middleton, WI 53562 scinote.net/

sciNote is a free, open source electronic lab notebook. It is developed for scientists to manage and organize their research data and safely store it all in one place. It can also be used as a communication tool between professors and students, since it encourages scientific collaboration. It can either be used as cloud software or installed locally.

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BOC Sciences 45-16 Ramsey Road Shirley, NY 11967 (631) 619-7922 www.bocsci.com

BOC Sciences offers high-quality superparamagnetic iron oxide microbeads. Our products include various-sized magnetic beads with different coupling groups for the conjugation of biomolecules. We have established a high-level platform that involves many scientists and a full set of instruments to guarantee the quality of our products and services and thereby help to facilitate your researches.

### **Micro Linear Actuator**

Actuonix Motion Devices Inc 580 Starling Lane Victoria, B.C., Canada V9E2A9 (206) 347-9684 www.actuonix.com

Actuonix actuators are used in a wide range of applications from molecular diagnostic machines, to x-ray laser test facilities, and experiments on the International Space Station.

Our products help OEM companies meet the challenge of designing motion-enabled products in continually shrinking sizes and shapes.

Need a custom micro linear actuator? We can help. Our team of engineers will work closely with your business to design a custom linear actuator to suit your specifications.

### **XIFIN LIS Anywhere**

XIFIN

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Leverage your clinical data and optimize your laboratory operations with a cloud-based, multidisciplinary Laboratory Information System. Combining processing efficiency, workflow optimization, quality assurance and data validation, XIFIN LIS Anywhere enables laboratories to stay competitive in an increasing complex environment.

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### **Antibody Drug Conjugates**

BOC Sciences 45-16 Ramsey Road Shirley, NY 11967 (631) 619-7922 www.bocsci.com

Antibody-drug conjugates (ADCs) are a very important class of highly potent drugs designed as a targeted therapy for the treatment of people who has cancer.

### Campathecin

Musechem

7220 Rosemead Boulevard, Suite 202-10

San Gabriel, CA 91775 (800) 259-7612

www.musechem.com

Camptothecin (CPT) is a potent DNA enzyme topoisomerase I (topo I) inhibitor with an IC50 and IC70 of 50 nM and 0.225  $\mu$ M for breast cancer cell line MDA-MB-231.

IC50 Value: 50 nM(in MDA-MB-231 cell line)

Target: topoisomerase

### Cariprazine

BOC Sciences 45-16 Ramsey Road Shirley, NY 11967 (631) 619-7922 www.bocsci.com

Cariprazine is an orally active D2/D3 dopamine receptor antagonist exhibits high selectivity and affinity to dopamine D3 and D2 receptors and moderate affinity to serotonin 5-HT(1A) receptors. It is used as an antipsychotic drug candidate for the potential treatment of schizophrenia, bipolar mania and depression. It has also been used as a potential adjunct in treatment-resistant major depressive disorder.

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1835 E. Hallandale Beach Boulevard #221 Hallandale Beach, FL 33009

(888) 973-6353

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Lumiprobe manufactures & sells fluorescent dves. phosphoramidites for oligonucleotide synthesis, Click chemicals and other reagents. Most items are ready for immediate shipping to worldwide locations.

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Humanized tumor microenvironment, three-dimensional drug screening and patient-derived xenograft verification platform.

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#### **ULTImate YChemH**

HYBRIGENICS CORP.

1 Broadway

Cambridge, MA 02142

www.hybrigenics-services.com/contents/our-services/discover/ ultimate-ychemh

ULTImate YChemH is a unique screening platform for target deconvolution of bioactive compounds, to decipher mechanisms of action, to identify secondary targets, to reposition drugs and to predict toxicity

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Applied StemCell Inc. 521 Cottonwood Drive, Suite 111 Milpitas, CA 95035 (408) 773-8007 www.appliedstemcell.com

Applied StemCell is a California-based biotech company that is employing the most advanced genome editing technologies for the generation of molecular reference standards. Our existing, ONCOREF™ product series, features the largest MAPK mutation panel currently on the market. In addition to off-the-shelf products, we offer custom services and collaborative efforts to help advance the next generation of molecular reference standards.

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Rm. 918, 9F, 96, Chia Hsin Bldg. (Second Bldg.) Sec. 2, Zhongshan N. Rd., Zhongshan Dist.

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Enterprise-grade analysis platform for your NGS whole genome and exome best practices powered by Apache Spark/Hadoop: 10X FASTQ, BAM to VCF acceleration; 50% Lower computing cost; 4hrs BWA/GATK workflow turnaround

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Pine Biotech 1441 Canal Street New Orleans, LA 70112 (504) 267-7789

www.pine-biotech.com

BioInfoPLATFORM is a flexible and user-friendly bioinformatics distributed computational system. It is meant to provide an intuitive and user -friendly interface for building pipelines (chains) of bioinformatics algorithms for the analysis of big data: NG genomics and transcriptomics sequencing, massspectroscopy proteomics/metabolomics, as well as phenotypic visual information and knowledge databases.

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MagMAX DNA Multi-Sample Ultra 2.0 reagents provide genetic testing companies, labs and service providers with fast, hasslefree and high-throughput DNA extraction from blood, saliva, buffy coat and buccal swabs. Using magnetic beads on an automated system, the reagents enable labs to standardize and accelerate sample purification while maintaining consistent results. They can purify DNA from 96 samples in 45 minutes using a simplified protocol for either small- or large-volume sample input.

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HYBRIGENICS CORP.

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www.hybrigenics-services.com/contents/our-services/discover/ultimate-ychemh

ULTImate YChemH is a unique screening platform for target deconvolution of bioactive compounds, to decipher mechanisms of action, to identify secondary targets, to reposition drugs and to predict toxicity

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0-27-597-16789

www.abbkine.com

Cell Counting Kit-8 (CCK-8) is designed to detect cell proliferation and cell toxicity based on WST-8 is reduced by dehydrogenases in cells to give an orange colored product (formazan). The amount of the formazan in cells is directly proportional to the number of living cells. Tests confirm that performance equals or exceeds popular CCK-8 kit from other suppliers.

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### Alba Spectrum

1715 West Wabansia Avenue Chicago, IL 60622 (773) 384-9264 www.albaspectrum.com/

Alba Spectrum helps customers optimize their Microsoft Dynamics GP investment with products and services. They help companies that have Microsoft Dynamics GP already and those looking to purchase Microsoft Dynamics GP. Visit their website to learn more about how they can help your business grow.

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iSpecimen 450 Bedford Street, Suite 1100 Lexington, MA 02420 (781) 301-6700 www.ispecimen.com

The iSpecimen Marketplace provides researchers with the specimens they need from the patients they want. It connects healthcare organizations that have access to patients and specimens, including biofluids, solid tissues, and viable cells, with scientists who need them. Researchers log on and gain instant access to millions of specimens anytime, anywhere. Provider organizations gain an opportunity to contribute their specimens compliantly to medical research as well as enhance their bottom line.

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Dassault Systèmes BIOVIA 5005 Wateridge Vista Drive San Diego, CA 92121 (415) 694-6795 accelrys.com/

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www.fitzmill.com/page/hammer-mills

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www.quadro.com/products/fine-grind/

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### Thermo Fisher Scientific MagMAX DNA Multi-Sample Ultra 2.0

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www.cofactorgenomics.com

Paragon: Profiling micro-environment cell report for Immunooncology. Cofactor Paragon reports on the cellular components of the tumor micro-environment. 32 cell types are reported and provide valuable insight in studies aimed at understanding how the micro-environment and the immune activity plays a key role in efficacy of treatment.

### **Cofactor Pinnacle**

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Pinnacle: The RNA-based biomarker panel for cancer. Cofactor Pinnacle enables the identification of important cancer associated features, not detectable by DNA sequencing alone. Pinnacle measures the RNA expression of 318 prominent cancer genes, identifies those with oncogenic expression, and enables fusion identification in 283 critical cancer associated genes from any type of formalin-fixed or fresh frozen solid tumor in a CAP-CLIA certified lab.

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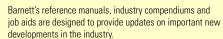


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