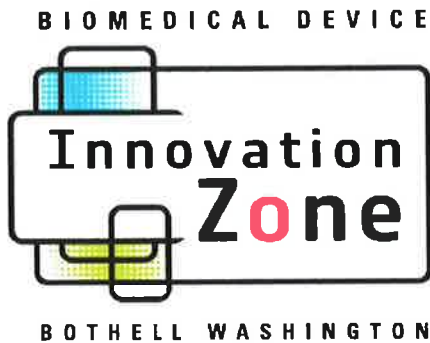


**ATTACHMENT E: BUSINESS PLAN**



**BOTHELL BIOMEDICAL MANUFACTURING  
INNOVATION PARTNERSHIP ZONE**

**BUSINESS PLAN**

**September 2011**

*Bothell Biomedical Manufacturing Innovation Zone*

*18305 101st Ave. NE*

*Bothell, WA 98011*

*Email: [meddevzone@ci.bothell.wa.us](mailto:meddevzone@ci.bothell.wa.us)*

*Website: [www.wameddev.org](http://www.wameddev.org)*

*Zone Administrator*

*Terrie Battuello, [terrie.battuello@ci.bothell.wa.us](mailto:terrie.battuello@ci.bothell.wa.us)*

*Chairman of the Board*

*Matt Smith, [msmith@snoedc.org](mailto:msmith@snoedc.org)*

## **I. EXECUTIVE SUMMARY**

The Bothell Biomedical Manufacturing Innovation Partnership Zone (Bothell IPZ), located in Bothell, Washington, is one of 12 regional Innovation Partnership Zones (IPZs) in Washington State designated by Governor Chris Gregoire as part of the state's efforts to stimulate the growth of industry clusters within specific geographic areas.

The Bothell IPZ received its designation in 2008 through a competitive process targeted at regions with an existing concentration of industry (established and start-up) and a higher education institution within its purview.

The Bothell IPZ physically encompasses approximately 3,200 acres including Bothell's four privately owned science parks, and the University of Washington Bothell and Cascadia Community College Campus. The zone is unique in that it spans both King and Snohomish Counties. Biomedical companies located within the zone include Philips Healthcare, SonoSite Inc, Medicis Technologies Corporation, and EKOS Corporation and additional biomedical pharmaceutical firms such as Alder Biopharmaceuticals and Seattle Genetics

## **II. MISSION**

The Bothell IPZ's mission is to accelerate the growth of the biomedical manufacturing industry in the region through programs targeted at improving industry branding, networking, education / development, access to funding, and increased secondary industry support.

As such, representatives of economic development agencies, educational institutions and private primary and secondary companies have participated in a wide array of activities and events to prompt successful outcomes for the industry over the past fours. In 2011, the Bothell Biomedical Manufacturing Innovation Partnership Zone became a Washington State corporation to more effectively support the group's programs and initiatives.

## **III. LONG TERM GOALS**

The Bothell IPZ aims to help industry growth by fostering informal networking and sharing of information and resources. Its long term goal is to generate informal social gatherings, formal training sessions, professional development, real world student experiences, collaborative projects and access to secondary supporting industries in the Bothell IPZ.

We have observed that in spite of nearly five percent continued industry growth, even through recent recessionary years, there are many innovations that are not being advanced for commercialization. The Bothell IPZ's 2010 Industry Outlook Survey queried regional industry representatives regarding unrealized commercial opportunities within their organizations - 88% of the respondents indicated that they have unrealized

commercial opportunities within their organizations, with 85% noting that they would pursue these opportunities if additional resources and support were available.

A key factor for the lack of development of these new commercialization opportunities from the region's research institutions, as well as private sector companies and researchers, is the lack of angel and venture funding. Fortunately, the Washington Biotechnology & Biomedical Association and its partners have created a new angel network, WINGS: The Washington Medical Technology Angel Network, to bring to fill this gap.

The Bothell IPZ believes that that a lack of facilities and advisory support for these innovations in preparing them to take off into the commercialization period has also been a major contributing factor and barrier to commercialization. We hope to continue to support and generate programs that promote these opportunities for expansion and company building.

By increasing the number of new life science companies in the State of Washington, we increase the number of high-paying jobs for the state's citizens, as well as a number of indirect jobs; and bolster the reputation of the State of Washington as a leader in biomedical manufacturing and life sciences.

### **III. LEADERSHIP / GOVERNANCE**

The Bothell IPZ is a highly collaborative organization led by the primary founding partners: the City of Bothell; University of Washington Bothell; the Washington Biotechnology & Biomedical Association (WBBA); Economic Alliance Snohomish County (formerly the Economic Development Council of Snohomish County) ; enterpriseSeattle; and the Washington State Department of Commerce.

Working with a host of supporting partners, the Bothell IPZ is the lead convener of the biomedical manufacturing industry in the region. Collaborative supporting partners include Cascadia and Edmonds Community Colleges and Lake Washington Technical College; the Snohomish and King County Workforce Development Councils; and industry firms Philips Healthcare, Medicis Technologies Corporation, Spiration, Pathway Medical Technologies, and EKOS Corporation.

The Bothell IPZ's non-profit officers and board members serve as the Management Team for the organization.

#### **Chairman of the Board**

##### **Matt Smith**

Matt Smith is a Director with Economic Alliance Snohomish County (formerly the Economic Development Council of Snohomish County). In his role with the Economic Alliance, Smith is responsible for managing the organization's retention, expansion, and recruitment projects.

### **Vice Chairs**

#### **Richard (Rick) Shea**

Rick Shea is the President and Chief Executive Officer of Spiration, Inc. Shea has more than 28 years of medical device and health care industry experience at firms including Johnson & Johnson, Abbott Laboratories, and several early-stage companies including Stericycle (SRCL).

#### **Jens Quistgaard**

Jens Quistgaard is the President and General Manager of Medicis Technologies Corp, formerly LipoSonix, Inc. He joined LipoSonix as its President, CEO, and first employee in August, 2002. LipoSonix was acquired by Medicis Pharmaceutical Corporation in July, 2008. Prior to LipoSonix, Quistgaard held senior level positions at several leading medical device companies in the region including SonoSite and ATL Ultrasound (new part of Philips).

### **Secretary**

#### **Terrie Battuello**

Terrie Battuello is the Assistant City Manager and Economic Development Manager for the City of Bothell. Her responsibilities at the City include management oversight for economic development, visitor development, Municipal Court, citywide Information Technology, a sustainability initiative and managing a grant program for Human Services programs for 25 agencies. She is also responsible for the management of a 25 acre real estate portfolio of downtown property for redevelopment.

### **Treasurer**

#### **June Chino**

June Chino is a Business Development Manager for the Life Sciences sector with the Washington State Department of Commerce. Chino assists Washington State companies in sectors such as biomedical devices, biotechnology, dental equipment, healthcare products and services, laboratory and scientific instruments.

### **Directors**

#### **Tom Clement**

Tom Clement is the CEO of Cardiac Insight, Inc. a start-up focused on developing a highly accurate Atrial Fibrillation monitor to address the "silent" a-fib market. Prior to Cardiac Insight, Clement was the Director of New Ventures – Life Sciences at the University of Washington's Center for Commercialization. Clement has over 25 years experience as a founder, senior management, product development engineering, and engineering management at firms including Pathway Medical Technologies, Heart Technology, Boston Scientific.

#### **Bruce Jackson**

Bruce Jackson is the Business Development Manager for Life Sciences with enterpriseSeattle (formerly the Economic Development Council for Seattle-King County). Prior to joining enterpriseSeattle, Jackson spent six years in the venture capital industry specializing in seed and early stage life science investments.

**Chris Rivera**

Chris Rivera is the President of the Washington Biotechnology & Biomedical Association (WBBA). Prior to joining the WBBA, Rivera was the founder and CEO of Hyperion Therapeutics, a specialty biopharmaceutical company focused on the development and commercialization of therapies for gastroenterology and hepatology diseases.

**Terrence (Terry) J. Sweeney**

Terry Sweeney is the Vice President Global Clinical Affairs at Philips Healthcare worldwide. His career in regulatory affairs began in 1974 and he has directed regulatory affairs departments for Johnson and Johnson, Quantum Medical Systems, Advanced Technology Laboratories, and Philips Healthcare.

**Ex-Officio**

**Susan Jeffords**

Susan Jeffords is the Vice Chancellor for Academic Affairs at the University of Washington Bothell where she oversees academic programs, the Teaching and Learning Center, Information Technologies, the Division of Enrollment Management and Admissions, Student Affairs, the Offices of Research Support and Institutional Research.

**Patti McKinnell Davis**

Patti McKinnell Davis is the Director of Public Affairs for the Washington Biotechnology & Biomedical Association (WBBA) where she responsible for oversight of the WBBA's advocacy efforts for proactively address public policy affecting small, medium and large life science firms at the local, state and federal level.

**IV. STRENGTHS OF THE BOTHELL IPZ**

Washington State has long been recognized as a world-class epicenter for the life sciences, and has been ranked as the fifth-largest Life Sciences cluster in the US according to a recent Milken Institute study. The Seattle metro area has been the focus of much of this attention, as a well-established and recognized center for biotechnology and life sciences activity. However, that activity has historically favored the pharmaceutical side of biotech. Biomedical companies were often unintentionally overlooked. Establishment of the Bothell IPZ, in part, remedied this situation by giving biomedical firms an entity and regional industry cluster around which they could network and rally.

An economic impact study of the biomedical device cluster completed in 2008, as one of the Bothell IPZ's initial initiatives, indicated that 48% of the Greater Seattle region's biomedical device jobs and 72% of the industry's gross business revenues are based in the Bothell IPZ.

<b>Washington State Biomedical Device Industry Study, May 2008</b>		
	<u>Bothell IPZ</u>	<u>Greater Seattle Region</u>
Number of Jobs	2800	5800
Number of Companies	18	108
Gross Revenues (2007)	\$1.8B	\$2.5B
Average wage/employee	\$84K	\$84k

A large percentage of revenue generated by companies within the Bothell IPZ can be attributed to Philips Medical Systems, one of the world's largest providers of ultrasound, diagnostics and cardiac defibrillation. Philips' US headquarters and manufacturing operation for ultrasound are based in Bothell following its acquisition of Advanced Technology Laboratories (ATL) in 1998. ATL, a market leader in the ultrasound space, was created using technology developed and commercialized out of the University of Washington.

Philips is a key cornerstone of the biomedical manufacturing cluster and itself has spun out several ultrasound technologies which are the basis for other companies in the Bothell IPZ including: SonoSite, Inc., a leader in hard-carried and mountable ultrasound devices; Medisic Technologies Corporation, creators of an ultrasound technology focused on non-invasive body sculpting; and EKOS Corporation, pioneers in the developments of ultrasound accelerated thrombolysis.

Now, new firms in the manufacturing arena have emerged including biopharmaceutical starts like Alder Biopharmaceuticals and the outstanding growth into manufacturing by Seattle Genetics. By expanding our mission to focus on the manufacturing of biomedical products, our IPZ can support these companies that contribute so much to the economy and to advances in answer to unmet needs both in diagnostics and medical treatments.

Patents play an important role as indicators of inventive and innovative activity across a regional cluster. An attached Bothell IPZ Patent Report identified over 200 patents related to the biomedical sector and tied to innovators within the Bothell IPZ over a three year time period September 2008 through August 2011. As we expand our mission to include all our manufacturers, we will expect to report a number of additional patents.

### **Education & Training**

Edmonds Community College, one of three colleges in the immediate vicinity of the IPZ, has worked with the industry to develop an on-line curriculum specific to the needs of device firms. Certificates are available in Medical Quality Systems, Configuration Documentation (regulatory compliance) and Clinical Data Management.

Lake Washington Institute of Technology is developing a baccalaureate degree program designed to support the workforce needs of the Bothell IPZ and the broader biomedical industry in Washington State. The degree will be in the 2+2 format. The first two years will result in an Associate of Applied Science (AAS) degree that would enable students to go to work as technicians within the biomedical industry. Those two years will also provide the foundation for the baccalaureate degree that students successfully completing the additional two years of study will earn.

### **Regional Infrastructure**

The City of Bothell was named one of the top ten US medical technology hot spots in 2002 by MX: MedTech Executive, the business strategy magazine for medical technology executives. It is attractive to science firms, and is frequently listed by regional business media as one of the Puget Sound Region's top business places including being recognized as Washington State's top place for medical device industry growth, headquartered public companies, and the fastest growing public companies.

Lower cost real estate and affordable housing, nearby professional development opportunities, transit options and family lifestyle considerations give the Bothell IPZ a competitive advantage in attracting and retaining knowledge-based employers and employees.

## **V. BIOMEDICAL MARKET OPPORTUNITY**

The global biomedical industry is large, intensely competitive and highly innovative, with estimated worldwide sales of more than \$300 billion in 2011. The U.S. is the largest medical device market, with estimated sales of roughly \$95 billion in 2010.

The U.S. biomedical industry continues to grow at a brisk pace, thanks to an aging Baby Boomer population, high unmet medical needs and increased incidence of lifestyle diseases (including cardiovascular diseases, diabetes, hypertension and obesity).

With several growth constraints in the legacy markets, medical device companies will be aiming to expand into lucrative new markets. Expansion in the emerging markets, especially those with double-digit annual growth rates, represents one of the best potential avenues for growth in 2011 and beyond.

The biomedical industry is unique among manufacturing industries because it is known for smaller quantities of individual products, but a wide range of product lines. Smaller companies generally develop individual products and devices, while larger companies remain competitive by using their core and proprietary technology to develop a complete range of products in various sectors to negotiate favorable deals with group purchasing organizations (GPOs).

Pressed by a still struggling economy, top-tier devices makers are expected to continue their merger/acquisition trend in 2011, especially as a means to enter new markets and diversify their portfolio.

## **VII. COMMERCIALIZATION OPPORTUNITES**

The Bothell IPZ is seeing a confluence of commercialization resources for the industry. For years the organizations providing these resources have been collaborating informally to support individual small businesses. Through our various initiatives we hope to raise the formal cooperation among these support organizations in order to provide a more efficient and seamless experience for the entrepreneurs in the sector.

With our strong public and nonprofit research institutions, regional entrepreneurial spirit and deep industry executive experience; we have the potential to grow the medical device cluster through new company formation.

The Bothell IPZ has nurtured interactions within the cluster, accumulating successful experiences and collaborations that provide the foundation for supporting future programs. In addition to the participation of executives from both small and large

companies, the economic development agencies for King and Snohomish Counties are both active participants and collaborators in the organization.

By partnering with the University of Washington, the Bothell IPZ taps into a rich resource for translating new medical technologies into new products and new companies. The UW represents a \$750M beachhead on the annual regional \$2B research base in the life sciences. Moreover, the UW researchers have close working relationships with researchers in the Fred Hutchinson Cancer Research Center, the Seattle Children's Hospital, PATH, the Seattle Biomedical Research Institute, and the Institute of Systems Biology, Benoroya Research Institute and the Pacific Northwest Diabetes Research Center among others. The UW's programs reach into the innovative life sciences community in the region, and are extended by its partnership with organizations like the Bothell IPZ and Washington Biotechnology & Biomedical Association.

The translational connections are essential for successful commercialization. The UW Center for Commercialization (C4C) is one of the largest and most innovative university technology transfer practices in the nation. Our future programs draw on their experience and expertise in starting companies out of the regional research base; on their networks of entrepreneurs, investors, and service providers; and on their talent, including not only their staff but their Entrepreneurs-in-Residence. Layered on top of the UW C4C resources are the WBBA's commercialization program and the Institute for Translational Health Sciences (ITHS) programs for supporting translational research. The ITHS is currently managing a national grant to help translate research into commercial products by assisting in regulatory pre-clinical strategy and execution.

## **VIII. ACCOMPLISHMENTS**

The Bothell IPZ and its partners continue to meet regularly to promote cluster development through programs focused on improving industry branding, funding, networking, education/development and secondary industry support.

The IPZ has conducted a number of industry studies including the Washington State Biomedical Device Industry Study in September 2008 that served to determine the economic impact of the industry on the broader community; a Machine Shop Survey in November 2008 that helped to identify organizations in the region that had either done prototype development work with the industry or were interested in doing so; and an annual Industry Outlook Survey focused on benchmarking regional industry trends including sales and hiring.

The Bothell IPZ has also hosted a number of industry events including its annual Washington State Biomedical Device Summit. This year's summit drew close to 200 attendees (85% industry representatives) for a three-hour program that featured a nationally recognized speaker – Jeff Hoffman, Managing Director and Head of West Coast Healthcare Investment Banking for JP Morgan. Hoffman providing an investment outlook for the industry including updates on current funding and exit opportunities, as well as insight into larger companies and the new technologies they're looking for in terms of acquisitions. Following his presentation Hoffman was joined by panelists Kirby Cramer,

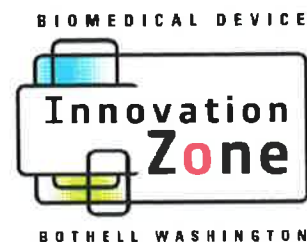
Co-Chair of WINGS -The Washington Medical Device Angel Network; and Trevor Moody, President of TM Strategic Advisors; CEO of Guide-Link; and former General Partner at Frazier Healthcare Ventures to discuss the funding opportunities and challenges for our regional companies.

The Bothell IPZ's C-Level Roundtables Lunches are restricted to executives from established and start-up companies within the cluster. The roundtables are casual, unscripted gatherings where executives can share their thoughts and resources. As an example, an acquired device firm was closing its' local operation and was able to talk about skilled employees and equipment that is available to other device firms. Another recent gathering focused on funding and included participation by representatives from the newly formed WINGS: Washington Medical Technology Angel Network and the WBBA's Commercialization Committee.

A networking reception was hosted in partnership with the UW to provide scientists in the industry an opportunity to meet representatives from UW research programs and learn more about equipment, lab space and other resources available for them. The IPZ also partnered with the State Department of Commerce on a global seminar entitled "Staying Competitive in the Global Market: Are You Ready for the Changes in the Medical Device Director?"

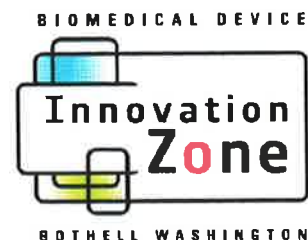
The cumulative result of these programs and activities is recognition by industry and stakeholders that the Bothell IPZ is the focal point for regional biomedical manufacturing cluster activity.

**Bothell IPZ Patent Report**  
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Bothell, WA



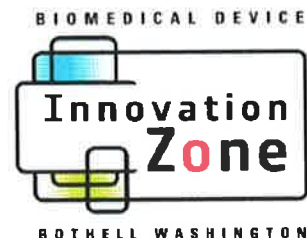
09/09/2008	Seattle Genetics Inc. US Patent: 7,423,116 Pentapeptide compounds and uses related thereto
09/23/2008	Cardiometrix, Inc. US Patent: 7,427,265 Endoluminal implant with therapeutic and diagnostic capability
10/07/2008	MediQuest Therapeutics, Inc. US Patent: 7,432,302 Composition containing polyamine transport inhibitor and use thereof
10/14/2008	Spiration, Inc. US Patent: 7,434,578 Methods of achieving lung volume reduction with removable anchored devices
10/14/2008	MDRNA, Inc. US Patent: 7,435,720 Compositions and methods for enhanced mucosal delivery of parathyroid hormone
10/21/2008	Aculight Corporation US Patent: 7,440,175 Multi-stage optical amplifier having photonic-crystal waveguides for generation of high-power pulsed radiation and associated method
10/21/2008	System to ASIC, Inc. US Patent: 7,440,872 Flexible scanning and sensing platform
10/28/2008	HaloSource, Inc. US Patent: 7,441,665 Water purification cartridge
11/11/2008	SonoSite, Inc. US Patent: 7,449,640 Alignment features for dicing multi element acoustic arrays
11/11/2008	SonoSite, Inc. US Patent: 7,449,640 Alignment features for dicing multi element acoustic arrays
11/11/2008	Verathon, Inc. US Patent: 7,450,746 System and method for cardiac imaging
11/18/2008	Cardiac Dimensions, Inc. US Patent: 7,452,375 Body lumen device anchor, device and assembly

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11/25/2008	Cardiac Science Corporation US Patent: 7,457,662 Method and apparatus for variable capacitance defibrillation
12/02/2008	Marquet Cardiovascular, LLC US Patent: 7,458,376 Surgical drape and panel assembly
12/09/2008	University of Washington US Patent: 7,462,446 Magnetic nanoparticle compositions and methods
12/09/2008	Lumera Corporation US Patent: 7,463,358 Highly stable surface plasmon resonance plates, microarrays, and methods
12/09/2008	Koninklijke Philips Electronics, N.V. US Patent: 7,463,922 Circuit and method for analyzing a patient's heart function using overlapping analysis windows
12/09/2008	Cardiac Science Corporation US Patent: 7,463,923 Method and apparatus for delivering a biphasic defibrillation pulse with variable energy
02/03/2009	Epoch Biosciences, Inc. US Patent: 7,485,442 Real-time linear detection probes: sensitive 5'-minor groove binder-containing probes for PCR analysis
02/10/2009	Koninklijke Philips Electronics, N.V. US Patent: 7,489,972 Method of detecting when electrode pads have been handled or removed from their package
02/17/2009	Seattle Genetics, Inc. US Patent: 7,491,390 Anti-CD70 antibody and its use for the treatment and prevention of cancer and immune disorders
02/24/2009	Koninklijke Philips Electronics N.V. US Patent: 7,493,669 Nodal mounted system for driving a power appliance
03/03/2009	Seattle Genetics, Inc. US Patent: 7,498,032 Methods for treating immune disorders or cancer with anti-CD40 antibodies

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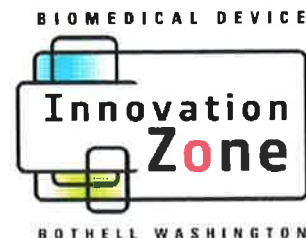
03/03/2009	Seattle Genetics, Inc. US Patent: 7,498,298 Monomethylvaline compounds capable of conjugation to ligands
03/17/2009	Cardiac Dimensions, Inc. US Patent: 7,503,931 System and method to effect the mitral valve annulus of a heart
03/17/2009	Cardiac Dimensions, Inc. US Patent: 7,503,932 Mitral valve annuloplasty device with vena cava anchor
03/17/2009	Ceptyr, Inc. US Patent: 7,504,389 Protein tyrosine phosphatase inhibitors and methods of use thereof
03/24/2009	ZymoGenetics, Inc. US Patent: 7,507,795 Murine ZCYTOR17 ligand polypeptides
03/31/2009	Ekos Corporation US Patent: 7,509,715 Methods of manufacturing ultrasound radiating members for a catheter
03/31/2009	Seattle Genetics, Inc. US Patent: 7,510,711 Methods for the treatment of cancer using anti-CD40 antibodies
04/07/2009	Rosetta Inpharmatics LLC / The Netherlands Cancer Institute US Patent: 7,514,209 Diagnosis and prognosis of breast cancer patients
04/14/2009	Corixa Corporation US Patent: 7,517,952 Compositions and methods for the therapy and diagnosis of prostate cancer
04/21/2009	Verathon, Inc. US Patent: 7,520,857 3D ultrasound-based instrument for non-invasive measurement of amniotic fluid volume
04/29/2009	SonoSite, Inc. US Patent: D591,423 Ultrasound platform
05/05/2009	ID Biomedical Corporation of Washington US Patent: 7,528,245 Efficient protein expression system

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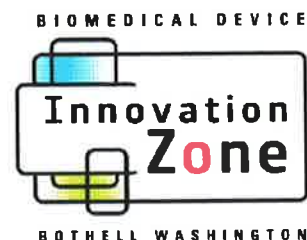
05/12/2009	ZymoGenetics, Inc. US Patent: 7,531,636 Antibodies to murine zcytor17 ligand
05/12/2009	LipoSonix, Inc. US Patent: 7,532,201 Position tracking device
05/19/2009	SonoSite, Inc. US Patent: 7,534,211 Modular apparatus for diagnostic ultrasound
05/19/2009	SonoSite, Inc. US Patent: D592,750 Exoskeletal member of an ultrasound platform
05/19/2009	SonoSite, Inc. US Patent: D592,760 Tilt control support
06/02/2009	Epoch Biosciences, Inc. US Patent: 7,541,454 Compounds and methods for fluorescent labeling
06/23/2009	SonoSite, Inc. US Patent: 7,549,961 System and method supporting imaging and monitoring applications
06/23/2009	Koninklijke Philips Electronics NV US Patent: 7,551,717 Virtual 4D treatment suite
06/30/2009	Epoch Biosciences, Inc. US Patent: 7,553,643 Method for amplifying target nucleic acid sequences using a primer comprising an AP endonuclease-cleavable linker
07/07/2009	Epoch Biosciences, Inc. US Patent: 7,556,923 Hybridization and mismatch discrimination using oligonucleotides conjugated to minor groove binders
07/14/2009	ICOS Corporation US Patent: 7,560,462 Compounds useful for inhibiting CHK1
07/21/2009	Rosetta Inpharmatics LLC US Patent: 7,565,251 Systems and methods for evaluating the significance of differences in biological measurements

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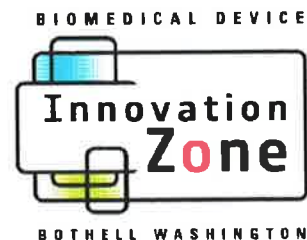
08/04/2009	Cardiometrix, Inc. US Patent: 7,568,394 Enhanced diaphragm for pressure sensing system and method
08/25/2009	Celltech R&D, Inc. US Patent: 7,578,999 Antibodies specific for sclerostin
09/01/2009	Epoch Biosciences, Inc. US Patent: 7,582,739 Negatively charged minor groove binders
09/15/2009	SonoSite, Inc. US Patent: 7,588,541 Method and system for positioning a medical device at one or more angles relative to an imaging probe
09/22/2009	SonoSite, Inc. US Patent: 7,591,786 Dock for connecting peripheral devices to a modular diagnostic ultrasound apparatus
09/22/2009	Koninklijke Philips Electronics N.V. US Patent: 7,593,554 System and method for comparing ultrasound images corresponding to two user-selected data points
10/13/2009	Proteotech, Inc. US Patent 7,601,876 Compounds, compositions and methods for the treatment of amyloid diseases such as systemic AA amyloidosis
10/13/2009	Epoch Biosciences US Patent 7,601,851 Compounds and methods for fluorescent labeling
10/20/2009	SonoSite, Inc. US Patent 7,604,596 Ultrasonic signal processor for a hand held ultrasonic diagnostic instrument
10/20/2009	ImQuant LLC US Patent 7,606,405 Dynamic tumor diagnostic and treatment system
10/27/2009	Cardiac Dimensions US Patent 7,608,102 Focused compression mitral valve device and method

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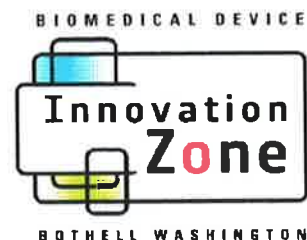
10/27/2009	Blood Cell Storage US Patent 7,608,460 Fluorescent pH detector system and related methods
10/27/2009	Blood Cell Storage US Patent 7,608,399 Device and method for extraction and analysis of nucleic acids from biological samples
10/27/2009	Icos Corporation US Patent 7,608,618 Urea or thiourea substituted 1,4-pyrazine compounds useful as anti-cancer agents and for inhibiting Chk1
11/03/2009	Verathon, Inc. US Patent 7,611,466 Ultrasound system and method for measuring bladder wall thickness and mass
11/17/2009	Celltech R&D, Inc. US Patent 7,618,629 Manipulation of cytokine levels using CD83 gene product
12/22/2009	Cardiac Dimensions, Inc. US Patent 7,635,387 Adjustable height focal tissue deflector
12/22/2009	Pharmain Corporation US Patent 7,635,463 Compositions for delivery of therapeutics and other materials
01/05/2010	Seattle Genetics US Patent 7,641,903 Anti-CD70 antibody and its use for the treatment and prevention of cancer and immune disorders
01/05/2010	Koronis Pharmaceuticals, Inc. US Patent 7,642,247 1,3,5-triazines for treatment of viral diseases
01/05/2010	Operon Biotechnologies, Inc. US Patent 7,642,344 Methods and compositions for determining the sequence of nucleic acid molecules
01/05/2010	SonoSite, Inc. US Patent 7,643,040 System and method for enhancing gray scale output on a color display
01/19/2010	EKOS Corporation US Patent 7,648,478 Treatment of vascular occlusions using ultrasonic energy and microbubbles

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02/02/2010	DermaSpect LLC US Patent 7,657,101 Devices and methods for identifying and monitoring changes of a suspect area on a patient
02/02/2010	Celltech R&D, Inc. US Patent 7,655,420 Methods to increase or decrease bone density
02/09/2010	Response Biomedical Corporation US Patent 7,659,086 Immunoassay employing two-step internal calibration reaction
02/09/2010	Seattle Genetics US Patent 7,659,241 Drug conjugates and their use for treating cancer, an autoimmune disease or an infectious disease
02/16/2010	Seattle Genetics US Patent 7,662,387 Anti-cd70 antibody-drug conjugates and their use for the treatment of cancer and immune disorders
02/16/2010	Icos Corporation US Patent 7,662,548 Method of screening for modulators of HIV infection
02/23/2010	University of Washington US Patent 7,666,394 Nanoparticles having reactive ester groups covalently coupled thereto and related methods
02/23/2010	Seattle Genetics, Inc. US Patent 7,666,422 Methods for the treatment of cancer using anti-CD40 antibodies
03/09/2010	Cardiac Dimensions, Inc. US Patent 7,674,287 Device and method for modifying the shape of a body organ
03/23/2010	Aspara Medical Corporation US Patent 7,684,871 System, method and apparatus for evaluating tissue temperature
03/30/2010	SonoSite, Inc. US Patent 7,686,766 Medical diagnostic ultrasound instrument with ECG module, authorization mechanism and methods of use

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04/06/2010	Siemens Medical Solutions US Patent 7,691,063 Receive circuit for minimizing channels in ultrasound imaging
04/06/2010	University of Washington US Patent 7,692,030 Conjugates of artemisinin-related endoperoxides and hydrazone derivatives for the treatment of cancer
04/13/2010	SonoSite, Inc. US Patent 7,694,814 Sealed medical device enclosure
04/13/2010	Apsara, Inc. US Patent 7,695,505 System, method and apparatus for evaluating tissue temperature
04/13/2010	Northwest Biotherapeutics, Inc. US Patent 7,695,627 Tangential flow filtration devices and methods for leukocyte enrichment
04/13/2010	Helix Biomedix, Inc. US Patent 7,696,174 Short bio-active peptides for cellular and immunological modulation
04/13/2010	Medicis Technologies Corporation US Patent 7,695,437 Ultrasound therapy head with movement control
04/13/2010	Seattle Genetics, Inc. US Patent 7,695,716 Methods of treating neoplastic, autoimmune and inflammatory diseases
04/13/2010	Plexera Bioscience, LLC US Patent 7,695,976 Method for uniform analyte fluid delivery to microarrays
04/13/2010	MDRNA, Inc. US Patent 7,696,343 Method for opening tight junctions
04/27/2010	MDRNA Inc. US Patent 7,704,953 Phage displayed cell binding peptides
05/04/2010	Cardiac Science Corporation US Patent 7,708,683 Methods for quantifying the risk of cardiac death using exercise induced heart rate variability metrics

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External defibrillator with training mode and method of use

05/18/2010 MediQuest Therapeutics, Inc.  
US Patent 7,718,185  
Inhibitors of melanocyte tyrosinase as topical skin lighteners

06/01/2010 SonoSite, Inc.  
US Patent 7,727,153  
Ultrasonic blood vessel measurement apparatus and method

06/01/2010 EKOS Corporation  
US Patent 7,727,178  
Catheter with multiple ultrasound radiating members

06/01/2010 Verathon, Inc.  
US Patent 7,727,150  
Systems and methods for determining organ wall mass by three-dimensional ultrasound

06/01/2010 Calfacior Corporation  
US Patent 7,729,778  
System, method and apparatus for evaluating tissue temperature

06/08/2010 Light Sciences Oncology, Inc.  
US Patent 7,730,894  
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06/15/2010 UST, Inc.  
US Patent 7,736,619  
Hydrogel compositions and manufacturing process for ultrasound couplants

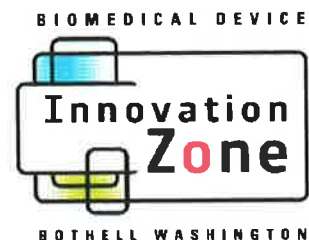
06/22/2010 SonoSite, Inc.  
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Ultrasonic signal processor for a hand held ultrasonic diagnostic instrument

06/22/2010 ZymoGenetics, Inc.  
US Patent 7,740,834  
Murine zcytor17 ligand polypeptides

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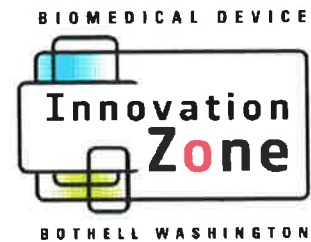
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06/29/2010	Seattle Genetics, Inc. US Patent 7,745,394 Monomethylvaline compounds capable of conjugation to ligands
06/29/2010	Proteotech, Inc. US Patent 7,745,490 Substituted N-aryl benzamides and related compounds for treatment of amyloid diseases and synucleinopathies
07/06/2010	Verathon, Inc. US Patent 7,749,165 Instantaneous ultrasonic echo measurement of bladder volume with a limited number of ultrasound beams
07/06/2010	Seattle Genetics, Inc. US Patent 7,750,116 Antibody drug conjugate metabolites
07/13/2010	Proteotech, Inc. US Patent 7,754,250 Composition and methods for treating Alzheimer's disease and other amyloidoses
07/13/2010	Seattle Genetics, Inc. US Patent 7,754,681 Heterocyclic self-immolative linkers and conjugates
07/20/2010	Darwin Discovery Ltd. US Patent 7,758,858 Antibodies associated with alterations in bone density
07/20/2010	Elitech Holdings US Patent 7,759,126 Real-time linear detection probes: sensitive 5'-minor groove binder-containing probes for amplification (or PCR) analysis
07/20/2010	Proteotech, Inc. US Patent 7,759,311 Small peptides for the treatment of alzheimer's disease and other beta-amyloid protein fibrillogenesis disorders
07/27/2010	Proteotech, Inc. US Patent 7,763,747 Compounds, compositions and methods for the treatment of amyloid diseases and synucleinopathies such as alzheimer's disease, type 2 diabetes, and parkinson's disease
08/03/2010	Medicis Technologies Corporation US Patent 7,766,848 Medical ultrasound transducer having non-ideal focal region

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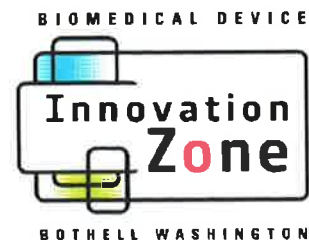
08/03/2010	Elitech Holdings US Patent 7,767,834 Phosphonylated fluorescent dyes and conjugates
08/10/2010	Ekos Corporation US Patent 7,771,372 Ultrasonic catheter with axial energy field
08/10/2010	MDRNA, Inc. US Patent 7,772,189 Phage displayed cell binding peptides
08/17/2010	Ekos Corporation US Patent 7,774,933 Method of manufacturing ultrasound catheters
08/17/2010	MediQuest Therapeutics, Inc. US Patent 7,776,349 Organo-gel formulations for therapeutic applications
08/24/2010	Microvision, Inc. US Patent 7,783,133 Rotation compensation and image stabilization system
08/31/2010	Sonus Pharmaceuticals, Inc. US Patent 7,786,134 Lipophilic anticancer drug compounds, compositions and related methods
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09/07/2010	HaloSource, Inc. US Patent: 7,790,042 Method for the removal of submicron particulates from chlorinated water by sequentially adding a cationic polymer followed by adding an anionic polymer
09/14/2010	Elitech Holding US Patent: 7,794,945 Hybridization and mismatch discrimination using oligonucleotides conjugated to minor groove binders
09/21/2010	Celltech R&D, Inc. Patent: 7,799,523 Association of polymorphisms in the SOST gene region with bone mineral density
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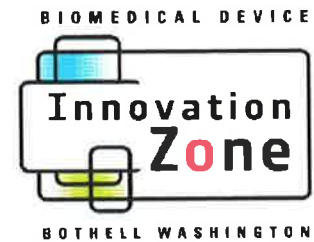
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10/05/2010	Institute for Systems Biology US Patent; 7,807,785 Androgen regulated prostate specific nucleic acids
10/05/2010	SonoSite, Inc. US Patent: 7,809,400 Processing of medical signals
10/05/2010	SonoSite, Inc. US Patent: D625,014 Medical device stand docking head
10/05/2010	SonoSite, Inc. US Patent: D625,015 Medical device stand docking station
10/26/2010	EKOS Corporation US Patent: 7,818,854 Ultrasound radiating members for catheter
10/26/2010	Verathon Inc. US Patent: 7,819,806 System and method to identify and measure organ wall boundaries
10/26/2010	SonoSite, Inc. US Patent: 7,819,807 Balance body ultrasound system
10/26/2010	Inhalation Inc. US Patent: 7,820,210 Methods and apparatus to prevent, treat, and cure the symptoms of nausea caused by chemotherapy treatments of human cancers
11/02/2010	Seattle Genetics, Inc. US Patent: 7,824,683 Methods for augmenting an immune response using anti-CD40 antibodies
11/09/2010	EKOS Corporation US Patent: 7,828,762 Catheter with multiple ultrasound radiating members
11/09/2010	Cardiac Dimensions US Patent: 7,828,841 Device and method for modifying the shape of a body organ

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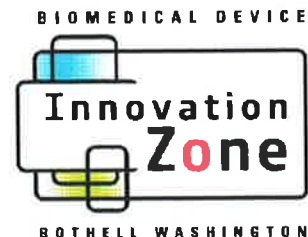
- 11/09/2010      Cardiac Dimensions  
US Patent: 7,828,842  
Tissue shaping device
  
- 11/09/2010      Seattle Genetics Inc.  
US Patent: 7,829,531  
Drug conjugates and their use for treating cancer, an autoimmune disease or an infectious disease
  
- 11/09/2010      Ceptyr  
US Patent: 7,829,737  
Protein tyrosine phosphatase inhibitors and methods of use thereof
  
- 11/16/2010      Pacesetter, Inc.  
US Patent: 7,833,265  
Vascular anchoring system and method
  
- 11/23/2010      Cardiac Dimensions, Inc.  
US Patent: 7,837,728  
Reduced length tissue shaping device
  
- 11/23/2010      Seattle Genetics, Inc.  
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Partially loaded antibodies and methods of their conjugation
  
- 11/30/2010      Medicis Technologies Corporation  
US Patent: 7,841,984  
Ultrasonic treatment and imaging of adipose tissue
  
- 11/30/2010      Pathway Medical Technologies, Inc.  
US Patent: 7,842,009  
Interventional catheters incorporating aspiration and/or infusion systems
  
- 11/30/2010      Spiration, Inc.  
US Patent: 7,842,061  
Methods of achieving lung volume reduction with removable anchored devices
  
- 12/07/2010      Pacesetter, Inc.  
US Patent: 7,846,200  
Vascular anchoring system and method
  
- 12/07/2010      SonoSite, Inc.  
US Patent: 7,849,250  
Docking station with hierarchal battery management for use with portable medical equipment
  
- 12/14/2010      Celltech R&D Limited  
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- 12/21/2010 Sirna Therapeutics  
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RNA interference mediated inhibition of checkpoint kinase-1 (CHK-1) gene expression using short interfering nucleic acid (siNA)
- 12/21/2010 Mediscis Technologies Corporation  
US Patent: D629,523  
Ultrasound therapy base unit
- 12/21/2010 Mediscis Technologies Corporation  
US Patent: D629,525  
Hand piece for ultrasound therapy head
- 12/21/2010 Mediscis Technologies Corporation  
US Patent: D629,526  
Therapy cap for ultrasonic therapy head
- 12/21/2010 Mediscis Technologies Corporation  
US Patent: D629,527  
Ultrasound therapy cap connection
- 12/28/2010 Mediscis Technologies Corporation  
US Patent: 7,857,773  
Apparatus and methods for the destruction of adipose tissue
- 12/28/2010 Cardiac Dimensions, Inc.  
US Patent: 7,857,846  
Device and method for modifying the shape of a body organ
- 12/28/2010 Mediquest Therapeutics  
US Patent: 7,858,105  
Inhibitors of melanocyte tyrosinase as topical skin lighteners
- 12/28/2010 Merck Sharp & Dohme Corp  
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Compositions for enhanced epithelial permeation of neuropeptide Y for treating obesity

01/11/2011      Kurve Technology, Inc.  
US Patent: 7,866,316  
Particle dispersion device for nasal delivery

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US Patent: 7,867,168  
Ultrasonic transducer having distributed weight properties

01/18/2011      Pacesetter, Inc.  
US Patent: 7,872,613  
Enhanced implantable helical antenna system and method

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One-way valve devices for anchored implantation in a lung

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Comparative multiple analyte assay

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US Patent: 7,876,282  
Enhanced implantable di-pole antenna system and method

02/01/2011      Cardiac Science Corporation  
US Patent: 7,881,785  
Method and apparatus for defrosting a defibrillation electrode

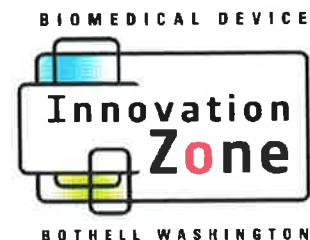
02/08/2011      SonoSite Inc.  
US Patent: 7,883,276  
Optical transmission coupling

02/08/2011      Institute for Systems Biology  
US Patent: 7,883,858  
Methods for identifying and monitoring drug side effects

02/15/2011      Cardiac Dimensions, Inc.  
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Device and method for modifying the shape of a body organ

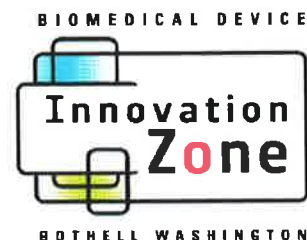
02/15/2011      Darwin Molecular Corporation  
US Patent: 7,888,091  
Fusion proteins having thymidine kinase and guanylate kinase activities

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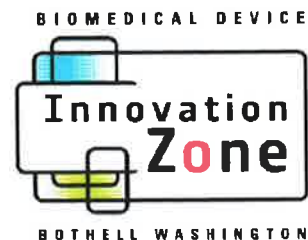
- 02/15/2011 Darwin Molecular Corporation  
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- 02/15/2011 Plexera LLC  
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Surface plasmon resonance spectrometer with an actuator driven angle scanning mechanism
- 02/22/2011 Pacesetter Inc.  
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Vascular anchoring system and method
- 02/22/2011 Sirna Therapeutics  
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RNA interference mediated inhibition of Myc and/or Myb gene expression using short interfering nucleic acid (siNA)
- 03/01/2011 Spiration, Inc.  
US Patent: 7,896,887  
Apparatus and method for deployment of a bronchial obstruction device
- 03/01/2011 Sirna Therapeutics  
US Patent: 7,897,755  
RNA interference mediated inhibition of platelet-derived endothelial cell growth factor (ECGF1) gene expression using short interfering nucleic acid (siNA)
- 03/01/2011 Merck Sharp & Dohme  
US Patent: 7,897,756  
RNA interference mediated inhibition of NOGO and NOGO receptor gene expression using short interfering nucleic acid (siNA)
- 03/08/2011 Pacesetter Inc.  
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Vascular anchoring system and method
- 03/08/2011 Philips Electronics  
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Wearable wireless device for monitoring, analyzing and communicating physiological status
- 03/15/2011 Kurve Technology, Inc.  
US Patent: 7,905,229  
Aerosol generating and delivery device
- 03/15/2011 Medicis Technologies Corporation  
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Disposable transducer seal

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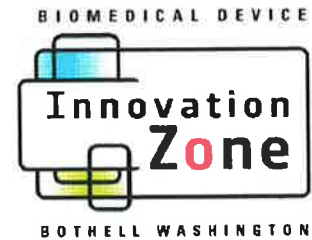
03/15/2011	Corixa Corporation US Patent: 7,906,277 Compound and methods for diagnosis of tuberculosis
03/22/2011	ZymoGenetics US Patent: 7,910,540 Soluble ZcytoR14, anti-ZcytoR14 antibodies and binding partners and methods of using in inflammation
03/22/2011	Sirna Therapeutics US Patent: 7,910,725 RNA interference mediated inhibition of interleukin and interleukin receptor gene expression using short interfering nucleic acid (siNA)
03/29/2011	Uptake Medical Corp US Patent: 7,913,698 Device and method for lung treatment
03/29/2011	EKOS Corporation US Patent: 7,914,509 Ultrasound catheter
04/12/2011	Merck Sharp & Dohme Corp US Patent: 7,923,549 RNA interference mediated inhibition of interleukin and interleukin receptor gene expression using short interfering nucleic acid (siNA)
04/19/2011	Corixa Corporation US Patent: 7,927,609 Compounds and methods for immunotherapy and diagnosis of tuberculosis
04/19/2011	Alder BioPharmaceuticals, Inc. US Patent: 7,927,863 Methods of synthesizing heteromultimeric polypeptides in yeast using a haploid mating strategy
04/26/2011	ICOS Corporation US Patent: 7,932,260 Quinazolinones as inhibitors of human phosphatidylinositol 3-kinase delta
05/03/2011	Boston Scientific Scimed, Inc. US Patent: 7,935,379 Coated and imprinted medical devices and methods of making the same
05/10/2011	3M Innovative Properties Company US Patent: 7,939,249 Methods for nucleic acid isolation and kits using a microfluidic device and concentration step

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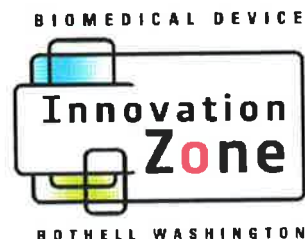
05/10/2011	Stratos Genomics, Inc. US Patent: 7,939,259 High throughput nucleic acid sequencing by expansion
05/10/2011	Corixa Corporation US Patent: 7,939,646 Compositions and methods for the therapy and diagnosis of prostate cancer
05/10/2011	Marina Biotech, Inc. US Patent: 7,939,505 Amino acid lipids and uses thereof
05/24/2011	Medicis Technologies Corporation US Patent: 7,946,986 Cartridge for use with an ultrasound therapy head
05/31/2011	CardioDynamics International Corporation US Patent: 7,950,971 Electrical connector apparatus and methods
05/31/2011	Clear Catheter Systems US Patent: 7,951,243 Methods and devices to clear obstructions from medical tubes
05/31/2011	Intermec IP Corp US Patent: 7,952,464 Configurable RFID tag with protocol and band selection
06/07/2011	Physio-Control, Inc US Patent: 7,957,798 Defibrillator/monitor system having a pod with leads capable of wirelessly communicating
06/07/2011	Medtronic, Inc. US Patent: 7,957,799 Non-invasive cardiac potentiation therapy
06/07/2011	Cardiac Science Corporation US Patent: D639,437 Wearable ambulatory electrocardiographic monitor
06/14/2011	PharmalN Corporation US Patent: 7,960,336 Composition for long-acting peptide analogs
06/21/2011	Seattle Genetics, Inc. US Patent: 7,964,567 Monomethylvaline compounds capable of conjugation to ligands

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06/14/2011	Cardiac Science Corporation US Patent: 7,962,207 Method and apparatus for variable capacitance defibrillation
06/28/2011	Blood Cell Storage, Inc. US Patent: 7,968,346 Fluorescent pH detector system and related methods
06/28/2011	Seattle Genetics, Inc. US Patent: 7,968,687 CD19 binding agents and uses thereof
06/28/2011	Physio-Control, Inc. US Patent: 7,970,464 Method and system for responding to non-perfusing and non-shockable heart rhythms
07/12/2011	EKOS Corporation US Patent: 7,976,483 Ultrasound assembly with increased efficacy
07/12/2011	Darwin Discovery Limited US Patent: 7,977,312 Compositions and methods for increasing bone mineralization
07/12/2011	Intermec IP Corp US Patent: 7,978,074 Method and apparatus for RFID tag detection and characterization
07/12/2011	SonoSite, Inc. US Patent: 7,978,461 Enhanced ultrasound system
07/19/2011	Philips Electronics US Patent: 7,979,938 Changing amplitude of movement by changing the drive frequency of a toothbrush brushhead
07/19/2011	Siemens Medical Solutions USA US Patent: 7,981,039 Receive circuit for minimizing channels in ultrasound imaging
07/19/2011	3M Innovative Properties US Patent: 7,981,600 Methods and devices for removal of organic molecules from biological mixtures using an anion exchange material that includes a polyoxyalkylene
07/19/2011	Corixa Corporation US Patent: 7,982,025 Fusion proteins of Mycobacterium tuberculosis

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08/02/2011	Corixa Corporation US Patent: 7,989,605 Compounds and methods for immunotherapy and diagnosis of tuberculosis
08/09/2011	Medicis Technologies Corporation US Patent: 7,993,289 Systems and methods for the destruction of adipose tissue
08/09/2011	EKOS Corporation US Patent: 7,993,308 Ultrasound enhanced central venous catheter
08/09/2011	Uptake Medical Corp. US Patent: 7,993,323 High pressure and high temperature vapor catheters and systems
08/09/2011	Seattle Genetics US Patent: 7,994,135 Monomethylvaline compounds capable of conjugation to ligan
08/09/2011	Darwin Discovery Limited US Patent: 7,994,299 Compositions and methods for increasing bone mineralization
08/09/2011	SonoSite, Inc. US Patent: 7,996,688 Ultrasound system power management
08/23/2011	Proteotech LLC U.S. Patent: 8,003,612 Small peptides for the treatment of Alzheimer's disease and other beta-amyloid protein disorders
08/23/2011	Plexera LLC U.S. Patent: 8,004,669 SPR apparatus with high performance fluid delivery system
08/30/2011	Cardiac Dimensions U.S. Patent: 8,006,594 Catheter cutting tool
08/30/2011	Cardiac Science U.S. Patent: 8,010,190 CPR feedback method and apparatus