Emerging Medical Technologies Spotlight, a Report of Investment & Partnering Opportunities 2009

Description: This report includes details on over 1,000 emerging medical technology companies that: have presented at a 2009 LSI Emerging Medical Technologies Spotlight meeting; have presented at a 2004-2009 Elsevier/Medtech Insight In3 investor/partnering conference; or have been identified by LSI's in-house research team from 2004 thru 2009.


Executive summaries typically include:

- Company Contact Information
- Company Overview (structure, size, year founded, etc)
- Technology Details
- Target Markets
- Competitive Landscape and Differentiation
- Financial Summary and Sales Forecasts
- Financing & Partnering Needs
- IP Position & Status
- Management Team Overview
- More

Contents: BRIEF TECHNOLOGY DESCRIPTIONS FOR COMPANIES COVERED

- Expert systems and miniaturized hardware for stroke prevention and management and for pre-operative brain protection
- Microplate-based electronic biosensor system for label-free, real-time cell based assays
- Naturally-derived/non-crosslinked/collagen-based extracellular matrix to repair/remodel damaged tissues
- Phase II drug/device combo product for bone regeneration in orthopedic and perio/oral surgery
- Mesh wrap for permanent implantation around the heart to prevent/reverse the progression of heart failure
- Implantable devices for the endovascular treatment of hemorrhagic stroke
- Less invasive orthopaedic implant solutions employing advanced pliable structured materials and innovative designs
- Smart devices to harness human physiology for health care, industrial safety, and law enforcement
applications
- Next-generation cell-based/tissue-engineered products
- Wireless/MEMS-fabricated/nano-processed/dermal/percutaneous continuous glucose monitoring device
- Minimally invasive/RF nerve ablation to reduce of migraine headache pain
- Noninvasive medical device providing low-risk hypoxic treatment that induces appetite suppression and weight loss
- New generation of high-power/compact lasers for cosmetic, dermatology, pain management, and wound applications
- A platform aerosol drug delivery nebulizer device for multiple- and single-use applications with disposables
- Noninvasive medical device for the treatment and prevention of obesity using controlled hypoxia
- Site-specific biological and drug delivery
- Diagnostic methods using microarray gene expression profiling to determine specific properties of tumors
- Dynamic optimization of pacing intervals according to hemodynamic sensors for CRT devices
- Mobile air purification unit that captures and destroys airborne pathogens
- Biomimetic coronary stent coating that prevents restenosis/reduces the need for extended courses of dual antiplatelet therapy
- Multi-Sensing Wireless Catheter platform attached along the GI-Uro tract detecting GERD, incontinence, and other abnormalities
- DART is utilizing an interstitial radiation source that by nuclear decay recoil mechanism emits high-energy alpha particles widely dispersed by diffusion and by convection in the tumor mass
- Artificial lung delivers O2 and removes CO2 through a catheter inserted into the vena cava
- Communication device that acquires neurological signals from the brain and translates them into speech
- Percutaneously delivered implantable system to treat mitral valve regurgitation and improve congestive heart failure
- SmartStep
- Implanted oscillating field stimulation device which regenerates acute and sub-acute damaged spinal cord nerve tissue
- Implantable cardiac monitoring/patient alerting system for ischemic events to reduce time to treatment
- NanOss
- SutureLock - a versatile suture-securing knot-replacement device for endoscopic wound approximation
- Functionalized injectable biopolymers for medical applications
- A bioactive ceramic that delivers better/faster spine fusion and bone repair
- Microscope slide scanners and information management software that enable the digitization of pathology
- Noninvasive monitor to measure exhaled nitric oxide for the management of asthma
- Gene therapy products for the treatment of inherited/acquired diseases.
- Dynamic Stabilization System for use in the spine
- Patient recovery system for cosmetic and reconstructive surgery
- Lightweight brace support suit that restores mobility function for paraplegics/lower limb paralysis patients
- Cellular implants for orthopedic, trauma, and spinal applications based on a biological form stable matrix
- Biodegradable peripheral/coronary polymer stents that promote the natural remodeling of an injured artery after angioplasty
- 3-D tracking devices for use in surgical navigation and MIS
- Wireless device for the treatment of stress/urge/mixed urinary incontinence (UI)
- Spinal implants, cervical, thoracolumbar, interbody, bone substitutes, motion preservation
- A device for the left atrial appendage for stroke prevention in patients with atrial fibrillation
- Invisible/battery-less hearing device that is permanently implanted, yet completely reversible and MRI-compatible/safe
- Injectable porous scaffolds/spheres/composites with fully interconnected pores, for multiple applications
- Technologies that focus on wound diagnostics, infection control, and wound therapy
- Patient controlled analgesia device for pain management
- Flexible/single-use/sterile video-endoscopes which may be used at the patient bedside and which avoid all cross-contamination risks
- Gene-based products and fusionless instrumentation for the diagnosis and treatment of spinal disorders
- Second-generation, viscoelastic artificial disc restoring native function to the spine
- Off-the-shelf implantable allograft tissue to support peripheral nerve repair and regeneration
- The Axya Shoulder Fixation System generates ultrasonic energy for knotless suture welding in shoulder surgery
- Peptide-based therapeutic to enhance stent/graft patency
- Delivery of proteins and peptide drugs without burst, with near-zero order release, and with high bioavailability
- Monitoring system to replace the manual assessment of labor progress with real-time/continuous information
- Device for the treatment of Barrett’s esophagus and prevention of esophageal cancer
- Biomotion sensors that enable easy/non-contact capture of high-quality physiological data - remotely/wirelessly
- Therapeutic substances for bone regeneration
- Tumor necrosis factor alpha (TNF-a) inhibitor therapy for treatment of chronic persistent radiculopathy (including sciatica) related to disc herniation.
- Cethrin
- Devices delivering infrared light to reduce pain and accelerate tissue healing
- A liquid hydrogel wound dressing able to cure rapidly and in situ
- Cell-based therapy products for the treatment of heart failure secondary to myocardial infarction
- Easy-to-use, instrument-free, disposable molecular diagnostic tests
- Analyze, search, store, mine, share and unlock the power of digital tissue images
- Injectable biopolymer for the direct treatment of acute myocardial infarction (AMI)
- Blood test for breast cancer measuring 5 protein biomarkers using super-sensitive ELISA with 95% accuracy
- Endoscopically-placed devices to prevent GERD, obesity, and irritable bowel syndrome (IBS)
- Electronic device that closes the gap between drugs and surgery in osteoarthritis of the knee
- 1- Interventional single-use cardiac support device and drug delivery platform, 2- Implants for use in/with magnetic resonance imaging (MRI) systems
- Bioabsorbable, bioactive, and drug-releasing medical device products for various fields of surgery
- Third-generation biodegradable annuloplasty rings
- A protein therapeutic biotreatment that regresses solid tumors and protects against relapses
- Minimally invasive percutaneous neuromodulation pain therapy
- Affordable, simple-to-use means of self-monitoring women's reproductive status for: conception, birth control, ovulation, and cervical cancer screening
- BMDSys' Magnetic Field Imaging (MFI) is an absolutely non-invasive, radiation- and side-effect free electro physiological high speed cardiac diagnostic system to identify upcoming heart attacks and sudden cardiac deaths
- Target-specific recombinant human protein focused on spinal fusion surgery
- Magnesium-based compound that will attach bone to bone and ligaments and tendons to bone
- Functional brain imaging centers that identify Alzheimer's, brain injury, stroke, ADHD, bipolar, depression, anxiety, OCD
- Ceramic components for spine, orthopaedic, and other implant needs
- A drug delivery platform that approaches the endovascular bifurcation challenge from a completely different angle
- Minimally invasive device-based technologies targeting the treatment of hemodynamic instability and perfusion
- Totally implantable LVAD that does not interface with circulating blood
- Cath lab solution providing rapid onset of circulatory support in patients with acute heart failure
- Developing a fully implantable extra-aortic counterpulsation device designed to provide long-term, cost-effective treatment and significantly improve quality of life for heart failure patients
- Percutaneous mitral valve replacement (PMVR) for Mitral Regurgitation (MR)
- Stent to treat cerebral/aortic aneurysms by modulating hemodynamic flow
- 1-bio-therapeutic designed from autologous stem cells and committed to a cardiac lineage before implantation, 2-corresponding catheter for accurate transmyocardial injection
- Visually guided catheter ablation for atrial fibrillation
- The Nano-Pulse measures arterial elasticity and autonomic nervous system function
- Noninvasive device using muscular counter pulsation (MCP) technology for the treatment of chronic heart failure (CHF)
- Non-invasive cardiac diagnostic device, without using ionizing radiation and without physical/pharmacologically induced stress to the patient
- Orbital atherectomy for the treatment of peripheral vascular disease
- Percutaneous access management system to provide early ambulation/eliminate major complications, leaving nothing behind in patient
- MIS platform technologies for creating cavities in tissue and partially molding an orthopedic implant in situ
- Next-generation anatomic pathology (AP) with improved speed, automation, and ease-of-use
- MIST Therapy using non-contact ultrasound to stimulate healthy cells allowing chronic wounds to heal
- Molecular FingerPrinting process for early-stage diagnosis of cancer, enabling point-of-care therapeutics based on gene regulation
- Line of antimicrobial coatings to prevent microbial colonization/biofilm formation of endotracheal tubes/other indwelling medical devices
- Total hip replacement system that addresses resistance to wear and resistance to dislocation with ceramic and double mobility
- P-15: a small peptide attachment factor for bone formation in orthopedics
- NICOM
- Minimally invasive needle biosensor for in vivo glucose or lactate monitoring of intensive care patients
- Advanced optical systems/services that are changing the way doctors evaluate and treat the eye
- Advanced skin biopsy and wound healing solutions to dermatology, cosmetic, primary care, and oncology clinicians
- Catheter-based therapy which increases cerebral perfusion for the treatment of ischemic stroke and vasospasm
- Biodegradable surgical adhesive for seroma reduction in plastic surgery
- Video integration and equipment management system to enhance the MIS market
- Tissue repair devices exploiting shear force transfer and large-interface substrates for adherent new tissue formation
- Mobile phone-based data collection for chronic disease management
- Endovenous ablation system for varicose veins with 1320 nm CoolTouch laser
- Technology that prepares the spinal disc for a nucleus replacement/minimally invasive fusion device
- Percutaneous noninvasive heart valve replacement
- An internal adhesive biotechnology designed for strength, biocompatibility, and ease-of-use with applications in cardiovascular surgery
- 1-Painless intradermal drug delivery, 2-GERD diagnostic device, 3-Non-invasive
- Continuous glucose monitoring
- Porcine-derived tissue devices for ligament, cartilage, bone, and soft tissue replacement and augmentation
- BioDisc, a nucleus replacement product based on an injectable, flexible, and durable protein hydrogel technology
- Technologies that integrate bone and cartilage forming peptide and small molecule therapies with osteostimulating matrices
- Nitric oxide-based therapies to accelerate healing of tendon, bone, and other musculoskeletal tissue
- Building on an exclusive intellectual property platform for both fusion and non-fusion products
- Non-invasive modality for the treatment of insulin resistance/diabetic neuropathy
- Non-invasive robotic radiosurgery system for cardiac ablation
- Optical cell sorters used in stem cell/cell therapy treatments for cancer, autoimmune disease, and regenerative medicine applications
- Highly porous resin that broadly removes toxins related to sepsis from blood
- Device for the treatment of sudden cardiac arrest for both in- and out-of-hospital markets
- Implantable replacement valve to treat incompetent deep vein valves causing degenerative pain, swelling, and non-healing ulcers associated with chronic venous insufficiency (CVI)
- Tissue fixation implants, injectable bone grafting biomaterials, and tissue scaffolds with drug releasing properties
- High-dose drug delivery system for the minimally invasive and repeatable treatment of liver cancers, colorectal cancer, and hepatitis
- Non-invasive technique for sampling the surface layers of the skin to generate individual genetic profiles for diagnostic/prognostics
- Physiologic Heart Surgery Pump: reducing post-surgery kidney failure, mortality, and complications cost by 50%
- Non-invasive screening of Peripheral Arterial Disease (PAD), combining postural/infrared blood volume testing
- Non-invasive/fast/easy-to-use/reliable medical devices that test for neuro-visual disorders
- Stentless aortic valve prosthesis to be delivered via catheter
- Dascor Arthroplasty System, spinal implants technology
- Disc Motion Technologies has developed the first posterior lumbar arthroplasty system consisting of an artificial lumbar disc and a posterior dynamic stabilizer.
- Resorbable hydrogel that 1-Seals annular tears in the intervertebral disc and 2-Provides an environment for nucleus regeneration
- Technology used in: 1-Finished products designed for micro-surgical/microscopy procedures and robotics and 2-Biosensors with applications in gene expression, neuroscience, and nanotechnology
- Next-generation estrogen-based drug-eluting coronary stent and an orthopedics/sports injury pain management device
- Non-invasive/fast/accurate diagnostic kits for: fertility, hormones, infectious agents, auto-antibodies, and tumor markers
- Monitoring products/clinical services for advanced ambulatory cardiac monitoring
- Hand-held ultrasound device to quantify strain and stiffness of tendons/ligaments
- Non-fusion spinal solutions that control segmental motion/maintain the neutral zone simultaneously
- Painless system that improves the appearance of cellulite/relieves minor muscle aches, pain, and spasms/temporarily improves local blood circulation
- Medical devices utilizing radiofrequency and microwave energy which are cost-effective and clinically relevant
- Microsyringe delivery of cells, genes, and drugs to the vasculature/deep tissues of the body
- Repositionable/removable percutaneous heart valve, precision controlled delivery device, and calcified valve encapsulation system
- Catheter ablation for the treatment of cardiac arrhythmias
- Endoscopically implantable devices for weight loss/to control Type 2 diabetes
- A noninvasive test for endothelial dysfunction using digital (fingertip) thermal monitoring
- Percutaneous mitral valve replacement system for treatment of mitral regurgitation
- Therapeutic gene delivery to treat diabetes/obesity/intestinal disorders/hemophilia/anemia
- Portable/palm-held endoscopic imaging with a mobile platform for recording/sharing/archiving images
- Wireless electronic skin patch sensors for the real-time measurement/monitoring/diagnosis/clinical management of cardiac arrhythmias
- Electronic pill for oral delivery of low bioavailability drugs
- ERBLAN MIS Surgical Devices allow safe entry into virtually any actual or potential anatomical space
- Motion preservative artificial disc
- One-shot, instantaneous anastomotic stapling devices for open AAA, EVAR, and CLI applications
- Non-invasive/iontophoretic drug delivery system with broad applicability for treating serious ocular diseases
- Ocular scanner for rapid/non-invasive triage and detection of pre-symptomatic conditions including exposure to toxins, presence of systemic diseases, and indication of internal injury
- Joint reconstruction device that ideally/anatomically matches the size/shape of the facet joint
- Fluorescent markers/optical sensors that provide an accurate and rapid determination of kidney function
- Intervventional catheter system for the mechanical recanalization of arterial chronic total occlusions quickly and reliably
- Noninvasive mechanical compression for treatment/prophylaxis of lower extremity circulatory disorders such as: PAD/DVT
- Non-invasive ophthalmic medical devices for: 1-diabetes screening and 2-daily glucose monitoring
- THERMOCEPS - a handheld, wireless device that stops bleeding during surgical procedures using focused, thermal coagulation
- Injectable gels for localized and controlled release of biologicals
- Device that uses combined electric field and low-intensity, noninvasive ultrasound for the treatment of solid tumors without the need for chemotherapy
- Instant-on/instant-off proximal occlusion funnel catheter, Scoring balloon with drug delivery capability
- Protein free induction of endochondral ossification, no human origin, not contagious, no soft tissue ossification
- Bioabsorbable drug eluting stents and stent coatings for treatment of vulnerable plaque and coronary stenosis
- Rapid testing systems led by the Growth Direct
- DiscCell
- Developing and marketing EEG systems, tools and services for Neurologists, Neurosurgeons, and Neuroscience Researchers
- Continuous, non-invasive glucose monitor for tight glycemic control at the hospital and at home
- Automated, continual blood glucose monitoring for critically ill patients
- Free-floating optical probe with multiple LD scanning and magnetic stabilization for noninvasive blood glucose monitoring
- Laparoscopic surgeons maintain direct control of the laparoscope movement/placement with GMP's Laparocision
- Implantable Left Ventricular Assist Device (LVAD) for heart failure, needed by 250,000 Americans yearly
- Blood test that screens/diagnoses cervical cancer without need of a cervical exam/pap smear
- System analyzes a patient's susceptibility to cardiac arrest and consequent need for implantable defibrillator
- System to process/concentrate cellular components from autologous bone marrow, including adult stem cells, at the point-of-care and in just 15 minutes
- Capture and analysis of heart sounds leading to rapid and accurate diagnosis of cardiac pathologies
- 3-D scaffold that enhances the biointegration of percutaneous/fully implanted current and next-generation devices
- Perfusion monitoring for preventing septic shock, the greatest hospital mortality
- PeriVasc
- Low-cost/point-of-care (POC) analyzer to quantify hemostasis in whole blood, including cellular and plasma components
- Extracellular matrix derived from fibroblasts isolated from newborns (NO embryonic stem cells/animal products)
- System for remote home patient monitoring of glucose, blood pressure, and thermal weight, Glucose meter cell phone
- Non-contact intelligent medical vigilance for the hospital
- Fluidjet devices for open and MIS fusion, discectomy, artificial nucleus, and artificial disc procedures
- Minimally invasive interventional radiology/vascular surgery devices
- Precision stapling devices enabling minimally invasive vascular connections, especially for Coronary Artery Bypass Graft

- Membrane optimization, coatings technologies, and development of polymers for biomedical applications

- Real-time, CT-guided, robotically controlled needle drivers for minimally invasive cancer therapy

- Optical coherence tomography for evaluation of human tissue microstructure with real-time depth visualization

- Indigo Orb, Inc is a technology leader in "Automatic Detection of Epidural Cavity"

- Next-generation computer-assisted laparoscopic tool composed of multiple rigid elements with intervening controllable joints

- Direct/real-time/non-invasive vascular imaging via infrared light to visualize both superficial veins/more deeply-located arteries

- Non-invasive infrared imaging system for the early detection of breast cancer

- Fiber-optic, catheter-based, near-infrared (NIR) spectroscopy system to identify lipid rich plaques in the coronary arteries

- Small/portable/handheld device for diagnosing brain hematomas

- A CE-marked resorbable plating system for cervical fusions allowing for load sharing

- Beam steering/target tracking/treatment planning solutions to the external beam radiation therapy market

- Advanced, intuitive real-time imaging for abdominal minimally invasive surgery

- Flash Ultrasound

- Wireless/motorized orthopedic lengthening implants for applications in deformity correction/cosmetic limb lengthening/bone fractures

- Unique add on and removable needle safety product that fits to standard glass/plastic syringes

- Minimally invasive fusion system

- Non-invasive airway clearance in ICU patients to prevent ventilator associated pneumonia

- Electroporation-delivered/DNA-based vaccines against cancers and infectious diseases

- AUDICOR uses advanced ECG-heart sound analysis to enable superior diagnosis/monitoring of CHF/ACS patients

- Totally implantable pumps delivering targeted medications directly to the spinal cord

- 1-Multi-generational devices using hybrid technologies for Natural Orifice Translumenal Endoscopic Surgery (NOTES) procedures, 2-Low profile single-patient-use tissue retractor, 3-Range of 7Fr intra aortic balloon catheters with fluid-filled technology that plugs into current hardware

- Stent that provides protection from embolic showers during/post-procedure

- Single-use rigid endoscopes with superior image quality at a reduced per use cost

- Pressure and flow sensing systems for vascular and other applications

- Integrated wireless monitoring

- Heart rate variability (HRV) analysis for quantitative assessment of the autonomic nervous system (ANS)
- A remotely controlled, wireless-powered implantable 230-channel nerve stimulator built on a 15
- Nanotechnology surface treatments for combination medical devices that address nosocomial (in-hospital) infections and thrombus
- Genetic and personal history based testing to predict age-specific risk of breast cancer diagnosis
- 1-Percutaneous venous valve, 2-Inferior vena cava filter, 3-Multi-purpose/disposable laparoscopic scissor grasper, 4-Multi-sized/multi-stiffness guidewire
- Interventional MRI technology for cardiovascular imaging including detection/treatment of vulnerable plaque
- Non-surgical/injectable tissue revitalization and stabilization to address lower back pain (LBP) and the underlying problem of mechanical insufficiency
- Next-generation disposable colonoscope incorporating diagnostic and therapeutic capabilities allowing for a potentially sedation-less treatment
- Technology for: 1-Glaucoma diagnosis and 2-Real-time homecare monitoring of intraocular pressure (IOP)
- 1-Cartilage implant for the knee, 2-Injectable cell therapy for the spinal disc/nucleus, 3-Bone graft extender to treat spinal deformities
- IYIA has developed a proprietary, clinically effective device, O2Misly, for treating slow healing foot wounds, primarily diabetic foot ulcers
- Minimally-invasive percutaneous aortic valve replacement systems
- A biological and mechanical solution to annular repair and spine fusion
- Phototherapy/ultraviolet light to inactivate the organisms that cause nail infections
- Human Globin, a biopolymer to replace animal collagens in dermal fillers and create biomaterials for tissue repair
- Enteric Dialysis with Kibow Biotics - a food-grade microbial Gel cap formulation towards kidney failure applications
- Intelligent nasal drug delivery devices for topical, systemic and nose-to-brain applications
- Point-of-care IVD platform that provides rapid, accurate, automated laboratory testing using low cost, disposable biochips
- Fusion technology platforms and second-generation artificial discs for the lumbar and cervical spine
- Effective and convenient phototherapy system available for in-home treatment of scalp/small-area psoriasis and other photoresponsive skin diseases
- Next-generation fusion, motion sparing, and minimally invasive spinal implant products
- Natural polymer technology that mimics the physiological clotting cascade without reliance on blood-derived proteins - to stop severe bleeding, reinforce staple and suture lines, and repair tissues
- Wearable/accurate/cost-effective device for the continuous measurement of human metabolism
- Vacuum-based clean surface nanotechnology for faster and larger osseointegration
- Noninvasive Ultra-WideBand medical radar imaging for cardiopulmonary ambulatory monitoring and diagnosis
- Percutaneous light activation reduces intra-abdominal fat, returning Type 2 diabetic patients towards normoglycemia
- Light-activated drug therapy to transform cancer into a treatable chronic disease
- Non-invasive molecular diagnostics for autism, chronic obstructive pulmonary disease (COPD), multiple sclerosis, and diseases with a genetic susceptibility
- IBraces - 100% customized, invisible orthodontic braces designed for efficient, effective treatment of teens and adults
- Device based therapy targeting ischemic brain stroke and chronic heart failure
- Technology for the manipulation of adult stem cells to repopulate chronically diseased liver tissue
- Smart, accurate guiding device based on image technology for orthopedic trauma procedures such internal fixation with intramedullary (IM) nails, osteotomy, and others
- Cellular imaging technology, using the Internet to transfer real-time/secure/accurate cellular resolution images
- Light-based therapy for eradication of ulcer-causing Helicobacter pylori
- An automated blood glucose monitor for the intensive care unit using near infra-red spectroscopy
- Diagnostic platform with a test for measuring unbound Bilirubin for the management of newborn jaundice
- Device for the treatment of mitral regurgitation and heart failure without requiring open heart surgery
- A wireless, early detection and auto-alerting heart monitor system for outpatient and homecare markets
- Precise miniature robotic technology for spine, knee, orthopedic, and neurosurgery minimally invasive procedures - SmartAssist
- Technologies that will prevent infection for many large patient populations
- Set of catheters for percutaneous isolation of an organ and local delivery of any high-dosage chemotherapy for treatment of organ cancer
- Products that digitize manual breast examination tissue elastic properties into objective computerized visual maps/reports
- Interventional catheter-based system precisely measures stent and arterial size and cardiovascular repair tissue patch products
- ATRILAZE
- Revisable cervical and lumbar total disc replacement that can be converted to fusion
- Therapy delivery platform for the upper airway with applications to initially target chronic sinusitis, nasal allergies, cystic fibrosis, and CPAP users
- Noninvasive, ambulatory, portable, 3-D traction technology providing an effective and unique therapy for spinal disorders
- Colon cancer screening and preventing Fecal Occult Blood Test & the O'Regan Hemorrhoid Banding System
- Multi-channel implantable microelectrodes for deep brain stimulation and recording, enabling enhanced neuromodulation therapies
- Site-specific catheter-guided system to deliver drugs and biologics directly to the adventitia
- Digital Pulse Analyzer - provides early detection of arterial wall stiffness and biological age of arteries
- Extracellular matrix (ECM) implant that is completely integrated, remodeled, and replaced by the patient's
native tissue over time

- Wireless/disposable sleep-monitoring device
- Portable and networked medical devices such as handheld ultrasounds
- Digital 3-D visualization for microscopy
- Disposable laboratory-on-a-card ("lab card") device to deliver sample-to-result analyses in minutes at the point of patient-caregiver contact
- Non-molecular bacterial screening, identification, and antibiotic susceptibility testing
- Long-term, miniature drug delivery implant with physician-controllable, zero-order release characteristics
- Wireless neurostimulation device to treat refractory chronic pain - 100 times smaller than current technology and injectable via a minimally invasive hypodermic needle
- Endothelial management - less trauma combined with new agents for improved healing in vascular interventions
- Full line of precision-crafted/disposable/ultra-minimally invasive surgical instruments
- Real-time image-guidance technology with an FDA-accepted accuracy claim of +/-1mm at 1 meter
- Dedicated angioplasty and stent systems for the treatment of arterial bifurcations
- Endotracheal tube with video, self-locking orthopedic implants, structured TPN lipids, cell therapy for cancer, etc.
- Ultrasonic medical devices for minimally invasive therapeutic procedures for treatment of cancer/other healthcare purposes
- Implantable blood pump with magnetic levitation technology for patients suffering from heart failure
- Biocompatible shape memory polymers which can be programmed to change shapes/rigidity when an initiating stimulus is applied
- Ophthalmic formulation of mitomycin-C in a single-use kit, for use in the surgical treatment of glaucoma
- Therapeutic approaches to prevent the abnormal tissue growth that inhibits recovery from surgical procedures/impairs normal wound healing
- Specialty and standard electrophysiology catheters that have superior performance, advantageous features, and are affordable
- High-resolution dermoscopy imaging technology to identify melanoma at an earlier stage/reduce the number of unnecessary excisions
- 1-Non-embryonic cell technology that creates cells/tissues/organs for virtually anyone needing a transplant, 2-Non-toxic cancer vaccine that uses the body's natural immune response to fight cancer, 3-Cell separation system to diagnose/monitor cancer
- Robot-assisted stroke therapy devices
- Biomarkers for the screening and diagnosis of cervical and other cancers
- Minimally-invasive cardiac implantable devices for treating mitral valve regurgitation without atriotomy or cardiopulmonary bypass
- Lumbar dynamic stabilization with MIS compatibility and pedicle screws
- Nanotechnologies for use in orthopedic implants, dental implants, and stents
- Technology that selectively treats only cancer cells and avoids destruction of normal cells
- Immediate, active, device-less, and painless topical drug delivery, of small/macromolecules, for local/systemic indications
- The Sensation
- Artificial muscle technology for the treatment of faecal and urinary incontinence
- Technology that precisely eliminates irregularly shaped/invasive solid tumors while avoiding significant damage to surrounding healthy tissue and is non-toxic
- A wearable continuous ultrafiltration device that removes fluid overload in patients with Congestive Heart Failure
- System to inactivate pathogens in all three major blood components: platelets/plasma/red cells
- System that enables consistent tissue contact/complete lesions during cardiac surgery for the treatment of arrythmias
- Less invasive approach for mitral valve repair, on a beating heart
- Noninvasive breast cancer risk assessment device
- The CADscreen system performs a non-invasive, 30-second test to identify the risk of heart disease
- Resorbable pegylated hydrogel for surgical wound sealing/adhesion prevention/sustained and targeted drug delivery
- Minimally invasive surgical access system used in laparoscopic surgery
- Minimally invasive surgical technology that uses ionizing radiation to treat Age-Related Macular Degeneration (ARMD)
- Water-resistant adhesives derived from mussels, used as tissue adhesives/anti-bacterial coatings
- Electromagnetic thermal therapy to relieve pain/improve function in patients suffering from osteoarthritis
- ALGEL
- Systems to diagnose neurological and sleep disorders
- Noninvasive neural vision enhancement
- ECG software for assessing acute ischemia and cardiac safety surrogates in clinical trials
- Spinal implants utilizing elastomeric polymers for non-fusion treatment of disc degeneration
- 1-Artificial vascular graft with self-sealing, non-woven, synthetic fiber structure, 2-Ventral hernia mesh
- Catheter-based sealing of heart defects associated with stroke, migraine headaches, and other brain attacks
- Diabetic pain relief via topical dermal administration and controlled release of pure Nitric Oxide (NO)
- Smallest/passive/implantable tag using RFID (radio-frequency identification) technology
- Bioactive synthetic bone graft substitute that is osteostimulative, osteoconductive, antimicrobial, and hemostatic
- Bioactive glass-ceramic material that offers whiter and less-sensitive teeth while protecting from tooth decay
- Automated implantable pump systems for moving fluids around inside the body
- Non-surgical serum based cure, proven effective for PAD, Diabetic and Cardiovascular disorders
- Minimally invasive interstitial laser therapy (ILT) as an alternative to breast surgery
- NovoSci Ready System
- Nitric oxide releasing surface treatments for enhanced biocompatibility in medical devices
- Accommodative intra-ocular lens (IOL) technology to treat cataracts/presbyopia/impaired vision
- Handheld device which measures the amount of calories a person requires to maintain body weight
- 1-Biopsy needles with enhanced ultrasound visualization, 2-Microencapsulated tissue markers, 3-Cryo-chemoablation of tumors
- Wearable health monitoring system for potential diabetes, heart disease, and sleep apnea applications
- A portable laseroptical system for noninvasive differentiation between ischemic stroke and spontaneous intracerebral hemorrhages
- Rapid table-mounted retraction/surgical site access for MIS placement of hip/knee/shoulder/spine implants
- OmniWave
- Minimally invasive retractors for pelvic surgery to optimize pneumoperitoneum pressure and patient position (OPS)
- True seizure "prediction" - up to an hour before the event
- Unique spine functional testing that delivers improved surgical outcomes
- Emperor Mobile Spinal Disc, P.E.E.K Cages, Pedicle Screw System, and Saturn Hip Resurfacing
- Nanolayer surface technology to improve the osteoconductive/bio-resistant/anti-infective attributes of implants
- Drug/device products for post-operative pain and orthopedic drug delivery indications using syntinate synthetic absorbables
- Stable and extractable self locking intramedullary nails and proximal femoral fixation
- Devices for mechanically induced bone growth, together with a "smart device" system for risk management
- Orthopeutics, LP introduces Intrabrace a new non-surgical, injectable treatment for resisting spinal curvature in scoliosis.
- 1-Synthetic alternatives to autograft/cadaver-based bone material, 2-Surgical hemostat as an adherent matrix/impermeable barrier to blood flow, 3-Bone augmentation material for injections in osteoporotic spines to treat vertebral compression fractures
- OsteONE
- Bioreposable polymer implants for use in a variety of orthopedics and spine surgical applications
- Surgical instrument designed to solve recurrent problems in managing sutures, tissue reattachment, and visualization during surgical procedures
- Matrix therapy based technology that treats skin ulcers/reduces amputation
- Guidewire system intended to safely/quickly cross occluded peripheral and coronary vessels
- Portable, easy-to-use consumer device that allows for easy, safe and green disposal of used insulin syringes, lancets and pen needles by vaporizing the sharp

- Open-architecture, cryogenic-free MRI systems for orthopaedic, general purpose and interventional applications

- Image-guided therapy for metastatic liver disease

- CardioPath System that prevents embolic events by removing plaque and thrombus found in diseased arteries

- Short-pulsed/plasma-mediated electrosurgical instrumentation that avoids extensive collateral damage

- Xenograft/allograft stabilizing and terminal sterilization technologies for sports medicine and spine/neurology implantable devices

- Post-proteomics multiplexed MS-based diagnostics/theranostics linked to drug development and personalized medicine

- Products for the early detection of lung and oral cancers

- A "plug & play" system for treating non-invasive, curative, and palliative cancers and precursors

- A "preventative" vaccine for HIV-AIDs

- Non-invasive neuromodulation platform technology

- A platelet reactivity test to measure the effect of anti-platelet drugs, particularly aspirin and Plavix

- Allogeneic cell therapy derived from the human placenta to mimic the natural environment of bone marrow

- Pocket-sized, affordable, and easy-to-use resuscitation devices that can be effectively deployed by both trained professionals and laymen

- Unique microsphere-based technology for chronic/acute wounds

- Anti-infective compounds designed to mimic host defense proteins, but with completely synthetic/non-peptide backbones

- Robotic system for fabrication of nano-material based wound dressings, delivered on-demand, at the POC

- Portable and easy-to-use tests for the healthcare, veterinary, and consumer markets

- Fully modular total hip replacement systems to reduce wear/add longevity

- PowerCosmetics micro-electronic patches, delivering skincare results faster and more effectively

- Computer-integrated robotic instrumentation/navigation tools for orthopedic surgery

- Noninvasive tests for the risk assessment of cardiovascular disease and the detection of early-stage lung/breast/colorectal cancer

- Diagnostic and therapeutic catheter-based devices for prevention/treatment of heart attacks caused by soft plaque

- Electrical stimulators via electrode garments for the treatment of pain related to chronic/acute soft tissue injuries

- High-intensity focused ultrasound in a catheter to treat atrial fibrillation

- 1-Pacing/sensor-enabled device for Cardiac Resynchronization Therapy (CRT), 2-Real-time modality to
quantify cardiac performance, 3-System that adds ingestible microchips to drugs

- Sutureless anastomosis systems to reduce/eliminate cross clamping time and suturing during minimally invasive surgery (MIS)

- Blood tests for: breast cancer/Alzheimer's disease/women's cancers

- BioSilicon, nano-structured porous silicon for applications in drug delivery, diagnostics, tissue engineering, and orthopedics

- Affordable handheld metabolic monitor (indirect calorimeter) with both medical and consumer weight management applications

- Conservative Motion Preservation technology including minimally invasive facet joint replacement

- An approach using RF energy for shrinkage of the valve annulus to reduce/eliminate regurgitation

- Disposable, noninvasive, pump-less, and valve-less automatic blood pressure monitor "on-a-chip"

- Compliant artificial lumbar disc with graduated modulus for restoration of normal spine biomechanics/enhanced durability

- Nucleus replacement device

- A suite of tools for automated CT Angiography (CTA) diagnostics for Coronary Artery Disease

- Surgical stapling devices for open and laparoscopic procedures developed for the growing China market

- Saliva-based consumer diagnostic systems, which enable the development of personalized therapeutics

- Systems using radiofrequency (RF) energy for the treatment of GERD and fecal incontinence (FI)

- Respiratory diagnostics for noninvasive assessment of airway acidification in Asthma, COPD, and GERD

- Nasal stent to treat obstructive sleep apnea

- Spinal cage with dynamic stabilization/MIS placement (3mm access) and easily revisable

- Implanted electronic subretinal device to restore vision to those who are blind due to retinitis pigmentosa (RP) or age-related macular degeneration (AMD)

- Autologous adult stem cell technology, cultured from the nasal passageway, to repair damage resulting from spinal cord injury

- Catheters designed to diagnose, terminate, and treat cardiac arrhythmia during EP and ablation procedures

- Theramers

- Gradient-based tracking and navigation for MRI - enables MRI-guided intervention, endoscopy and catheterization on any scanner

- Molecular diagnostic tests to: 1-Differentiate between squamous and non-squamous non-small-cell lung cancer, 2-Differentiate between mesothelioma and adenocarcinoma, 3-Identify more than 20 types of cancer

- IV safety system with real-time, disposable "smart" sensors

- Deep brain stimulation (DBS) guidance system

- Real-time interactive training visualization system, specifically for the task of training any designated personnel in successfully accomplishing a limited "focused assessment with sonography for trauma" (FAST) examination
- Noninvasive, outpatient bariatric device for overweight/obesity
- Lumbar spine motion preservation via dynamic stabilization utilizing a semi-rigid rod and screw system
- Growth factor and biomaterial addressing the needs of spinal fusion, osteochondral defects, osteoarthritis, dental medicine, and other indications
- Minimally invasive ophthalmic device therapy for Dry Macular Degeneration and other blindness causing diseases
- Lumbar, thoracic, and cervical fusion devices including less invasive instrumentation; lumbar and cervical artificial discs
- Technology using opto-acoustics for functional imaging/cancer diagnosis
- Continuous glucose monitoring specifically for use in the Intensive Care Unit (ICU)
- 1-Soft/disposable contact lens with embedded MEMS sensor for continuous intraocular pressure (IOP) monitoring in glaucoma patients, 2-Telemetry solutions for implantable medical devices
- Minimally invasive/endoscopically-placed device to treat obesity by inducing satiety in the esophageal/cardiac portion of the stomach
- Non-invasive biomechanical diagnostic system that records/analyzes range of motion (ROM) in a full 3-D environment for musculoskeletal diagnostics/therapeutics
- Permanently implanted electrical neural stimulators to treat balance/hearing/perceptual disorders
- Orthopedic products, specifically for upper and lower extremity small bone applications
- RFID hardware and software platform for test tubes/ apheresis device for blood component separation
- Infusing normothermic fluids from 10mL/hour-1200mL/minute with 30-second setup through a disposable cassette
- Aortic embolic protection device for acute and long-term use
- Synthetic scaffold to aid soft tissue regeneration of the anterior cruciate ligament (ACL) of the knee
- Technology that makes existing endoscopes better for physicians and patients
- Non-invasive continuous glucose monitoring device, for patients with diabetes, based on a multi-sensor platform
- Ultrasound-based diagnostic biosensor that enables blood analysis at the molecular level for the patient self-testing market
- Providing private and hospital-based OB/GYNs, Perinatologists, and Radiologists with integrated reporting and image management systems
- Microsensors and receptors for the real-time measurement of therapeutic drugs and clinical chemistry parameters
- Hand-held device to monitor post-operative/trauma patients for early warning signs of sepsis or infection in the bloodstream
- Evidenced-based LIFEBACK
- 1-Lumbar cage with integrated fixation screws, 2-Pedicle screw product line, 3-Access systems and implants for use in minimally invasive surgery (MIS)
- Reintroducing CHYMOPAPAIN, the only proven minimally-invasive therapy for herniated discs; it allows
- Advance and commercialize less invasive spinal deformity surgical treatment without fusion
- Clinical expertise, facility development, new technology, and business services including marketing and contracting
- Noninvasive device used in the differential diagnosis of disc or facet mediated low back pain
- Minimally invasive disc replacement for chronic back pain
- Lumbar system for dynamic stabilization without fusion, artificial discs, and minimally invasive surgery systems
- Programmable lab-on-a-chip platform for applications ranging from drug discovery to consumer diagnostics
- X STOP
- Surgical instruments employing thermal welding technology to seal and cut tissue
- Lectin-based cell adhesion technology which enables stents that traffic cells in the bloodstream
- Tools for enabling adult stem cell based regenerative medicine
- Bifurcated coronary stent
- Digital image acquisition, coupled with proprietary CAD decision-making algorithms, to provide an immediate/automated colposcopic evaluation
- Patient-centric data system and analysis tools for translational medicine and research
- Cardiac assist device for patients in moderate/severe long term heart failure
- A minimally invasive electromagnetic navigation system for early detection of lung cancer
- Advanced wheelchair technologies
- Shielded reciprocating tissue sculpturing instrument, able to navigate into neural foramen to relieve nerve compression
- Methods for treating human tissue based on volumetric bipolar radio frequency ablation (RFA), and surface ablation of tissue
- Laparoscopic surgical access technology based on a No-Seal platform
- SurfLink
- Advanced suturing technology for minimally invasive/NOTES/bariatric/cardiac/other surgical specialties
- Small/portable/disposable infusion pump kit to treat post-operative pain more effectively than narcotics
- 1-Biotherapeutic treatment to modify the heart wall/treat chronic heart failure (CHF), 2-Fast-acting polymer to temporarily modify the heart's nervous system/prevent post-operative atrial fibrillation (AF)
- Biodegradable polymer surgical implants designed to prevent/reduce the formation of post-operative adhesions
- Wireless/battery-less antenna on a chip (tag) for continuous tracking of blood samples
- Synthetic graft/stent technology that reduces neo-intimal hyperplasia (NIH) and occurrence/rate of restenosis
- 3-D tomographic ultrasound imaging system to aid in diagnosing breast cancer

- Accommodating and multifocal phakic IOLs, CE-approved for $ billion refractive IOL market

- Producer of surgical devices including a self-attaching hernia patch, anti-clog surgical drain, and cavity implosion device

- Telemeterized natural motion elastomer disc

- Cell-based epicardial patch designed to promote blood vessel growth in ischemic cardiac tissue

- Catheter-based systems that will provide very rapid/selective hypothermia to various body organs and locations

- Noninvasive therapeutic ultrasound to enhance perfusion for treatment of acute myocardial infarction

- Technology for diagnosing breast and ovarian cancers and determining responsiveness to new therapeutics

- Polymer-based/biodegradable/drug-eluting peripheral vascular stent for tibial and infrapopliteal arteries

- Real-time endoscopic tissue imaging system for high-resolution visualization of bronchial/pulmonary tissue cross-sections without biopsy

- Least invasive approach for the delivery of lumbar fusion and motion preservation therapies

- In vivo transdifferentiation to regenerate ischemic/diseased organs

- Wireless ECG monitoring

- ViaDerm - home use transdermal drug delivery system creating microscopic passageways in the top skin layer

- In vivo plasmapheresis and ultrafiltration to remove excess fluid from CHF patients in clinical trials

- Minimally invasive dynamic stabilization device

- Intelligent 3DHD visualization and guidance platform for ophthalmic, cranial, and spine surgeries

- Simultaneous testing of sobriety and identity that is simple/rapid/non-invasive, requiring no bodily fluids

- Catheter-based technology for orthopedic trauma indications providing site-specific tissue drainage and drug delivery

- Medical devices, utilizing robust tyrosine-based resorbable polymer systems/pharmaceuticals in surgical barriers/cardiac rhythm management

- Truly minimally invasive or open system utilizing a proprietary uni-axial screw at one-half the cost of poly-axial systems for all spine disorders

- Phase-shifting technology for Contrast Ultrasound imaging

- High Intensity Focused Ultrasound for minimally invasive thermal treatment of disc herniation without disc penetration

- Electrode sensor array, with integrated lead wires, simple, accurate and repeatable ECGs

- Ambulatory infusion pumps and disposables that require no programming and use pre-filled solution containers

- Minimally invasive vapor technology to treat emphysema

- Miniature/patient-controllable/valved catheter to improve quality of life/decrease urinary tract infections in
patients suffering urinary retention

- Facet fixation system that is a less-invasive/faster alternative to pedicle screw fixation
- Next-generation bio-medical adhesive, used as a filler for aneurysms in various areas of the body
- Bioprosthetic heart valve with a percutaneously-exchangeable leaflet set that provides lifetime service without anti-coagulation therapy
- Catheter for the treatment of non-responsive and unresectable stage IV metastatic colorectal cancer
- CGRP for the treatment of heart failure
- Non-invasive devices for the treatment of superficial venous disease
- Medical devices that enable earlier detection/minimally invasive treatment of lung cancer
- Percutaneous interventional devices to treat common spinal diseases, such as lumbar spinal stenosis
- Customizable vibration therapy devices to stimulate bone/muscle tissue
- Human bionic devices that can instantaneously interact with the human body to replace or restore biomechanical or physiological functions
- Advanced detection, staging, endoscopic treatment and follow-up care for acute and chronic lung disease
- More targeted/accurate radiation of cancer cells with significantly fewer side-effects
- Three-dimensional surgical visualization technologies and expanding portfolio for digital surgical environment and digital healthcare network
- Non-invasive continuous measurement of tissue oxygenation for various intraoperative and post-operative applications
- 1-Image analysis technology for virus detection/analysis, 2-Antiviral drugs
- An implantable ophthalmic device to treat vision correction associated with Age-Related Macular Degeneration (AMD)
- Customized miniature disposable stereoscopic cameras that provide 3D vision, measurements, and image fusion in real-time
- MRI-guided laser ablation system for targeted, minimally invasive, focal tumor therapy
- Real-time/multi-user image communication/collaboration system that consolidates images and text records into a single point of access
- Percutaneous anastomosis device for vascular access
- Minimally invasive telemetric and continuous measurement of left atrial blood pressure at heart failure
- Cellular therapy device to treat liver disease
- High Intensity Focused Ultrasound for incisionless male surgical sterilization
- Highly reimbursable orthopedic rehabilitation durable medical equipment
- Non-invasive brain physiological measurement technologies
- Noninvasive blood glucose monitor that will measure glucose in sweat in a disposable dermal patch
- Technology that uses the patient's own blood to make either: 1-A surgical sealant to prevent/stop bleedings or 2-A gel to stimulate the healing of chronic wounds
- 1-Soft tissue attachment nanotechnology, 2-Bioactive/biocompatible/osteconductive synthetic bone filler, 3-Biodegradable fiberglass fiber & composites
- Disposables for drawing blood -- percutaneous or from a catheter -- neonates to geriatrics
- Combination ultrasound/electrical stimulation device for skin rejuvenation
- Disease management system for early detection of heart failure using a noninvasive cardiovascular-sleep prognostic marker
- Real-time/in vivo-cellular-level/3-D imaging for: image-guided surgery; early cancer diagnosis without a biopsy
- Wireless 2000 leads the un-tethered patient vital signs monitoring revolution, using wireless Ultra Wideband (UWB) and Zigbee technologies
- Handheld/breath-based blood glucose monitor
- Medical devices that enable diabetes disease management and the prevention of lower extremity amputations
- Endoscopy systems allowing physicians to see very small, early-stage cancer and subtle pre-cancerous lesions
- Interactive intraoperative CT scanning technology for image-guided interventions
- Biocellulose technology that eliminates the risks/complications/limitations inherent in animal, human, and synthetic biomaterials
- System of products that will restore continence control to individuals with abdominal ostomies/eliminate the need for traditional ostomy pouching systems

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