CURRICULUM VITAE

NAME: Joshua Makower, M.D., M.B.A,

OFFICE ADDRESS:
Stanford University
318 Campus Drive, Room E-100
Stanford, CA 94305
Phone: (650) 725-8578
Phone: (650) 472-3160
e-mail: jmakower@stanford.edu
website: biodesign.stanford.edu

ACADEMIC APPOINTMENTS:

The Yock Family Professor
Professor of Medicine and of Bioengineering
Stanford University Schools of Medicine and Engineering
January 2023 - present

Boston Scientific Applied Bioengineering
Professor of Medicine and of Bioengineering
Stanford University Schools of Medicine and Engineering
August 2021 – January 2023

Adjunct Professor
Department of Medicine
Stanford University School of Medicine
August 2000 – August 2021

OTHER APPOINTMENTS:

Director, Byers Center for Biodesign
Stanford University School of Medicine
Effective August 2021

Co-Founder, Byers Center for Biodesign
Stanford University School of Medicine
January 2000 – Present

EDUCATION HISTORY:

Case Western Reserve University
Cleveland, Ohio
Bioengineering, 1981 - 1982

Massachusetts Institute of Technology
Cambridge, Massachusetts
Bachelor of Science in Mechanical Engineering, 1985

New York University School of Medicine
New York, New York
Doctor of Medicine, 1989

Columbia University Graduate School of Business
New York, New York
Masters in Business Administration with Honors, 1993

PRESENT POSITIONS:

Stanford Biodesign
Co-Founder and Director
Palo Alto, California
August 2021 - Present

Revelle Aesthetics, Inc.
Co-Founder
Mountain View, California
January 2020 – Present

ExploraMed V, Inc.
Founder and Chairman
Mountain View, California
May 2015 – Present

New Enterprise Associates
Special Partner
Menlo Park, California
August 2021 – Present

Willow Innovations, Inc.
Co-Founder and Executive Chairman
Mountain View, California
July 2014 – Present

Moximed, Inc.
Co-Founder and Chairman
Hayward, California
January 2007 – Present

PREVIOUS POSITIONS:

Nuelle, Inc. - *Acquired by Aytu in 2018*
Co-Founder and Chairman
Mountain View, California
June 2013 – January 2018

Vibrynt, Inc.
Co-Founder and Chairman
Redwood City, California
March 2006 – January 2010

NeoTract, Inc. - *Acquired by Teleflex in 2017*
Co-Founder and Chairman
Mountain View, California
June 2005 – October 2017

Acclarent, Inc. - *Acquired by Johnson & Johnson in 2010*
Founder and Chairman
Menlo Park, California
June 2004 – January 2010

PREVIOUS POSITIONS: (continued)

New Enterprise Associates
General Partner
May 2015 – August 2021
Venture Partner
September 2004 – May 2015
Entrepreneur In Residence
October 2003 – September 2004
Menlo Park, California

ExploraMed I, II, III, and IV, Inc.
Founder and President
Mountain View, California
August 1995 – May 2015

TransVascular, Inc. - *Acquired by Medtronic in 2003*
Founder, Chairman & Chief Technical Officer
April 2000 – October 2003
Founder, President & Chief Executive Officer
February 1996 – April 2000
Menlo Park, California

EndoMatrix, Inc. - *Acquired by CR Bard in 1997*
Founder and Chairman
Menlo Park, California
April 1996 – July 1997

Pfizer Hospital Products Group
Manager, Strategic Innovation, Business Development
December 1993 - July 1995
Manager, Technology Assessment, Business Development
June 1993 - November 1993
Project Leader, Technology Development
November 1991 - May 1993
Technology Development Analyst
September 1989 - October 1991
New York, New York

Arthur D. Little, Inc.
Consultant
Cambridge, Massachusetts
September 1988 - December 1988

American Heart Association Grant
Research Associate – City University of New York
New York, New York
June 1987 - August 1987

PREVIOUS POSITIONS: (continued)

Department of Health and Human Services Grant
Research Assistant – NYU School of Medicine
New York, New York
May 1985 - August 1985

Massachusetts Institute of Technology
Consultant
May 1985 - August 1985
Research and Teaching Assistant
September 1983 - May 1985
Cambridge, MA

CONSULTANT TO INDUSTRY (current):

1995 – present	ExploraMed I, II, III, IV & V Inc., Mountain View, CA Executive Chairman, Founder & Board of Directors
2007 – Present	Moximed, Inc., Mountain View, CA Chairman, Founder, & Board of Directors
2011 – present	Coravin, LLC, Waltham, MA Co-Founder & Board of Directors
2014 – present	Willow Innovations, Inc., Mountain View, CA Chairman, Founder & Board of Directors
2015 – present	DOTS Technology Corporation, Natick, MA Chairman & Board of Directors
2017 – present	Setpoint Medical, Inc., Valencia, CA Board of Directors
2019 – present	Allay Therapeutics, Inc., Redwood City, CA Board of Directors
2019 – present	Revelle Aesthetics, Inc., Mountain View, CA Founder & Board of Directors
2022 – present	X9, Inc., Mountain View, CA Chairman, Founder & Board of Directors

CONSULTANT TO INDUSTRY (previous):

2015 – 2022	Eargo, Inc., Mountain View, CA Chairman & Board of Directors
2018 – 2023	Lungpacer, Inc., Valencia, CA Board of Directors
2000 – 2022	Intrinsic Therapeutics, Inc., Wilmington, MA Board of Directors
2002 – 2007	ReVance Therapeutics, Inc., Mountain View, CA Board of Directors
2004 – 2010	Acclarent, Inc., Menlo Park, CA Chairman, Founder & Board of Directors

2005 – 2017	NeoTract, Inc., Mountain View, CA Chairman, Founder & Board of Directors
2006 – 2012	Vibrynt, Inc., Mountain View, CA Chairman, Founder, & Board of Directors
2010 – June 2015	Ceterix, Inc., Menlo Park, CA Board of Directors
2013 – 2018	Nuelle, Inc., Mountain View, CA Chairman, Founder & Board of Directors

AWARDS AND HONORS:

-	Columbia University Business School, Dean's List Honor Roll
-	Granted membership to the Tau Beta Pi and Pi Tau Sigma National Engineering Honor Societies and the Beta Gamma Sigma National Business Honor Society at MIT
June 1985	MIT Award for Excellence in Undergraduate Teaching
2017	American Institute of Biomedical Engineering College of Fellows, Fellow
2018	Coulter Award for Healthcare Innovation, Biomedical Engineering Society
2021	National Academy of Engineering, Member

PEER-REVIEWED ORIGINAL RESEARCH:

1. **Makower J**, Parnianpour M, Nordin M. The Characterization of the Dexterous Hand Master Index Finger in Flexion and Extension (A Pilot Study), The Association for the Advancement of Medical Instrumentation, May 1990, Page 61.

2. **Makower J**, Parnianpour M, Nordin M. The Validity Assessment of the Dexterous Hand Master: A Linkage System for the Measurement of Joints in the Hand. The Annals of Biomedical Engineering and Biomedical Instrumentation and Technology, August 1990.

3. Fitzgerald PJ, Hayase M, Yeung AC, Virmani R, Robbins RC, Burkhoff D, **Makower J**, Yock PG, Oesterle SN. New Approaches and Conduits: In Situ Venous Arterialization and Coronary Artery Bypass. Curr Interv Cardiol Rep. 1999 Jul;1(2):127-137. PMID: 11096617.

4. Thompson CA, Nasseri BA, **Makower J**, Houser S, McGarry M, Lamson T, Pomerntseva I, Chang JY, Gold HK, Vacanti JP, Oesterle SN. Percutaneous transvenous cellular cardiomyoplasty. A novel nonsurgical approach for myocardial cell transplantation. J Am Coll Cardiol. 2003 Jun 4;41(11):1964-71. doi: 10.1016/s0735-1097(03)00397-8. PMID: 12798567.

5. Denend L, Yock PG, **Makower J**, Azagury DE, Wall JK. Are We Making a Difference? A Case Study of Assessment in Innovation Training. Dec 2021, Volume 51, Issue 4.

6. Ruggles SW, Perl JR, Sexton Z, Schulman K, **Makower J.** The Need for Accelerated Medicare Coverage of Innovative Technologies: Impact on Patient Access and the Innovation Ecosystem. Health Management, Policy & Innovation. Jan 2022, Volume 7, Issue 1.

PEER-REVIEWED OTHER:

1. Krummel TM, Gertner M, **Makower J**, Milroy C, Gurtner G, Woo R, Riskin DJ, Binyamin G, Connor JA, Mery CM, Shafi BM, Yock PG. Inventing our future: training the next generation of surgeon innovators. Semin Pediatr Surg. 2006 Nov;15(4):309-18. doi: 10.1053/j.sempedsurg.2006.07.011. PMID: 17055962.

2. Sista AK, Hwang GL, Hovsepian DM, Sze DY, Kuo WT, Kothary N, Louie JD, Yamada K, Hong R, Dhanani R, Brinton TJ, Krummel TM, **Makower J**, Yock PG, Hofmann LV. Applying a structured innovation process to interventional radiology: a single-center experience. J Vasc Interv Radiol. 2012 Apr;23(4):488-94. doi: 10.1016/j.jvir.2011.12.029. PMID: 22464713.

3. Gottlieb S, **Makower J**. A role for entrepreneurs: an observation on lowering healthcare costs via technology innovation. Am J Prev Med. 2013 Jan;44(1 Suppl 1):S43-7. doi: 10.1016/j.amepre.2012.09.006. PMID: 23195166.

4. Brinton TJ, Kurihara CQ, Camarillo DB, Pietzsch JB, Gorodsky J, Zenios SA, Doshi R, Shen C, Kumar UN, Mairal A, Watkins J, Popp RL, Wang PJ, **Makower J**, Krummel TM, Yock PG. Outcomes from a postgraduate biomedical technology innovation training program: the first 12 years of Stanford Biodesign. Ann Biomed Eng. 2013 Sep;41(9):1803-10. doi: 10.1007/s10439-013-0761-2. Epub 2013 Feb 13. PMID: 23404074; PMCID: PMC3759560.

5. **Makower J**. Inspiration, perspiration, and execution: An innovator's perspective. Surgery. 2017 May;161(5):1187-1190. doi: 10.1016/j.surg.2016.06.060. PMID: 28438272.

6. Steinberger JD, Denend L, Azagury DE, Brinton TJ, **Makower J**, Yock PG. Needs-Based Innovation in Interventional Radiology: The Biodesign Process. Tech Vasc Interv Radiol. 2017 Jun;20(2):84-89. doi: 10.1053/j.tvir.2017.04.006. Epub 2017 Apr 18. PMID: 28673651.

7. Mokarram N, Denend L, Lyon J, Rait D, Brinton TJ, **Makower J**, Yock PG. Need Statements in Healthcare Innovation. Ann Biomed Eng 49, 1587–1592 (2021).

NON-PEER REVIEWED OTHER:

1. **Makower, J**, Outlook for Implantable Infusion Pumps. Spectrum: Diagnostics, Medical Equipment & Supplies, and Opthalmics, February 12, 1989, Pages 2-15 to 2-18.

2. **Makower J**, Meer A, Denend L. FDA Impact on U.S. Medical Technology Innovation: A Survey of Over 200 Medical Technology Companies. Submitted directly to the US Congress in collaboration with the Medical Device Manufacturers Association, AdvaMed and the National Venture Capital Association, Nov 2010.

BOOK CHAPTERS:

1. **Makower J**, Denend L. Inspiration, Perspiration, and Perseverance: An Innovator's Perspective. In: Medical Innovation: Concept to Commercialization. Academic Press, 2018. Chapter 26, pp. 251 – 260.

BOOKS:

1. Zenios S, **Makower J**, Yock PG, Brinton TJ, Kumar UN, Denend L, Krummel, TM. Biodesign: The Process of Innovating Medical Technologies. Cambridge: Cambridge University Press, 2009.

2. Zenios S, **Makower J**, Yock PG, Brinton TJ, Kumar UN, Denend L, Krummel, TM, Watkins J, Kurihara CQ. Biodesign: The Process of Innovating Medical Technologies. Second Edition, Cambridge: Cambridge University Press, 2015.

PATENTS:

11,589,742	Methods and apparatus for treating disorders of the ear nose and throat
11,529,502	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasal or paranasal structures
11,511,090	Devices, systems and methods useable for treating sinusitis
11,471,148	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
11,389,298	Extra-articular implantable mechanical energy absorbing systems
11,304,793	Methods, systems and devices for treatment of cerebrospinal venous insufficiency and multiple sclerosis
11,185,619	Breast pump system with pressure sensor
11,116,888	Cellulite treatment system and methods
11,116,392	Paranasal ostium finder devices and methods
11,089,991	Systems, devices and methods for assessing milk volume expressed from a breast
11,065,061	Systems and methods for performing image guided procedures within the ear, nose, throat and paranasal sinuses
11,020,136	Deflectable guide catheters and related methods
11,013,527	Cellulite treatment system and methods
10,945,719	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
10,736,746	Extra-articular implantable mechanical energy absorbing systems
10,722,624	Breast pump assembly with breast adapter
10,716,709	Silent effusion removal
10,702,371	Absorber designs for implantable device
10,702,295	Methods and apparatus for treating disorders of the ear nose and throat
10,695,080	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat
10,688,229	Breast pump system and methods
10,660,995	Breast pump system and methods
10,639,161	Extra-articular implantable load sharing systems

10,625,005	Breast pump assembly with remote interface
10,602,966	System and method for detecting characteristics of eustachian tube
10,596,007	Extra-articular implantable mechanical energy absorbing systems and implantation method
10,589,009	Breast pump system and methods
10,575,844	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
10,561,770	Breast pump assembly
10,525,176	Breast pump container assemblies
10,500,380	Devices, systems and methods useable for treating sinusitis
10,500,320	Breast pump container assemblies
10,492,810	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat
10,492,792	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
10,434,228	Breast pump system and methods
10,398,816	Breast pump system with flange
10,383,736	Femoral and tibial base components
10,376,416	System and method for treatment of non-ventilating middle ear by providing a gas pathway through the nasopharynx
10,327,816	Adjustable absorber designs for implantable device
10,299,780	Apparatus and method for manipulating or retracting tissue and anatomical structure
10,271,719	Paranasal ostium finder devices and methods
10,258,776	System and method for treatment of target tissues within the ears
10,188,413	Deflectable guide catheters and related methods
10,143,461	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
D832,995	Breast pump
10,105,132	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
10,070,964	Extra-articular implantable mechanical energy absorbing systems and implantation method
10,034,682	Devices, systems and methods useable for treating frontal sinusitis
10,022,154	Femoral and tibial base components
10,010,421	Extra-articular implantable mechanical energy absorbing systems
9,907,932	Devices, systems and methods for acute or chronic delivery of substances or apparatus to extravascular treatment sites
9,907,645	Adjustable absorber designs for implantable device
D809,646	Breast pump
9,883,947	Methods of redistributing forces for the patella with spacers
9,833,601	System and method for the simultaneous bilateral treatment of target tissues within the ears using a guide block structure
9,826,999	Methods and apparatus for treating disorders of the ear nose and throat
9,814,579	Unlinked implantable knee unloading device
9,814,379	Methods and apparatus for treating disorders of the ear nose and throat
9,808,290	Transcutaneous joint unloading device
9,750,401	Paranasal ostium finder devices and methods

9,713,700	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasal or paranasal structures
9,713,483	Catheters and related devices for forming passageways between blood vessels or other anatomical structures
9,700,419	Extra-articular implantable mechanical energy absorbing systems and implantation method
9,681,988	Silent effusion removal
9,655,648	Femoral and tibial base components
9,636,258	System and method for treatment of non-ventilating middle ear by providing a gas pathway through the nasopharynx
9,629,656	Adapter for attaching electromagnetic image guidance components to a medical device
9,610,428	Devices, systems and methods useable for treating frontal sinusitis
9,549,739	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
9,539,377	Breast pump system and methods
9,539,376	Breast pump system and methods
9,532,804	Implantation approach and instrumentality for an energy absorbing system
9,492,310	Adjustable tongue retaining oral appliance
9,421,073	Tongue retaining oral appliance
9,381,270	Mucosal tissue dressing and method of use
9,370,649	Devices, systems and methods useable for treating sinusitis
9,345,858	Catheters, systems and methods for percutaneous in situ arterio-venous bypass
9,320,511	Multi-actuating trigger anchor delivery system
9,314,362	Methods, instruments and devices for extragastric reduction of stomach volume
9,308,361	Implantable devices and methods for treating sinusitis and other disorders
9,241,834	Devices, systems and methods for treating disorders of the ear, nose and throat
9,220,879	Devices, systems and methods useable for treating sinusitis
9,216,112	System and method for the simultaneous bilateral placement of pressure equalization tubes
9,198,736	Adapter for attaching electromagnetic image guidance components to a medical device
9,192,479	Spacers for redistributing forces for the patella
9,167,961	Methods and apparatus for treating disorders of the ear nose and throat
9,161,749	Method and apparatus for treating sexual dysfunction
9,155,528	Methods, instruments and devices for extragastic reduction of stomach volume
9,125,746	Methods of implanting extra-articular implantable mechanical energy absorbing systems
9,101,384	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, Nose and/or throat
9,084,876	Implantable devices and methods for delivering drugs and other substances to treat sinusitis and other disorders
9,078,783	Silent effusion removal
9,072,626	System and method for treatment of non-ventilating middle ear by providing a gas pathway through the nasopharynx
9,055,965	Devices, systems and methods useable for treating sinusitis

9,039,680	Implantable devices and methods for delivering drugs and other substances to treat sinusitis and other disorders
9,039,657	Implantable devices and methods for delivering drugs and other substances to treat sinusitis and other disorders
9,005,298	Extra-articular implantable mechanical energy absorbing systems
8,979,888	Paranasal ostium finder devices and methods
8,961,495	Devices, systems and methods for treating disorders of the ear, nose and throat
8,961,398	Methods and apparatus for treating disorders of the ear, nose and throat
8,945,152	Multi-actuating trigger anchor delivery system
8,945,088	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasal or paranasal structures
8,940,001	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
8,936,609	Apparatus and method for manipulating or retracting tissue and anatomical structure
8,905,922	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat
8,900,252	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
8,894,714	Unlinked implantable knee unloading device
8,894,614	Devices, systems and methods useable for treating frontal sinusitis
8,870,893	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat
8,864,787	Ethmoidotomy system and implantable spacer devices having therapeutic substance delivery capability for treatment of paranasal sinusitis
8,858,586	Methods for enlarging ostia of paranasal sinuses
8,852,143	Devices, systems and methods for treating disorders of the ear, nose and throat
8,849,394	System and method for the simultaneous bilateral integrated tympanic drug delivery and guided treatment of target tissues within the ears
8,828,041	Devices, systems and methods useable for treating sinusitis
8,801,795	Extra-articular implantable mechanical energy absorbing systems
8,795,713	Mucosal tissue dressing and method of use
8,777,926	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasel or paranasal structures
8,764,726	Devices, systems and methods useable for treating sinusitis
8,764,709	Devices, systems and methods for treating disorders of the ear, nose and throat
8,758,366	Multi-actuating trigger anchor delivery system
8,753,366	Catheters and related devices for forming passageways between blood vessels or other anatomical structures
8,734,468	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
8,727,988	Tissue penetrating catheters having integral imaging transducers and their methods of use
8,721,591	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasal or paranasal structures
8,715,298	Apparatus and method for manipulating or retracting tissue and anatomical structure
8,715,239	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions

8,715,169	Devices, systems and methods useable for treating sinusitis
8,709,090	Adjustable absorber designs for implantable device
8,672,920	Devices, systems and methods for acute or chronic delivery of substances or apparatus to extravascular treatment sites
8,663,243	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
8,603,106	Integrated handle assembly for anchor delivery system
8,585,733	Devices, tools and methods for performing minimally invasive abdominal surgical procedures
8,585,596	Catheters, systems and methods for percutaneous in situ arterio-venous bypass
8,579,837	Devices and methods for promoting female sexual wellness
8,556,925	Devices and methods for treatment of obesity
8,540,694	Systems and methods for delivering drugs to selected locations within the body
8,474,462	Tongue retaining oral appliance
8,460,321	Devices, tools and methods for performing minimally invasive abdominal surgical procedures
8,435,290	System and method for treatment of non-ventilating middle ear by providing a gas pathway through the nasopharynx
8,425,535	Multi-actuating trigger anchor delivery system
8,425,488	System and method for the simultaneous bilateral treatment of target tissues within the ears using a guide block structure
8,414,473	Methods and apparatus for treating disorders of the ear nose and throat
8,409,281	Adjustable absorber designs for implantable device
8,398,668	Devices and methods for treatment of obesity
8,394,110	Apparatus and method for manipulating or retracting tissue and anatomical structure
8,388,642	Implantable devices and methods for treating sinusitis and other disorders
8,382,775	Methods, instruments and devices for extragastric reduction of stomach volume
8,360,069	Devices and methods for treatment of obesity
8,356,605	Devices and methods for treatment of obesity
8,353,925	Devices and methods for treatment of obesity
8,343,187	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
8,342,183	Devices and methods for treatment of obesity
8,295,947	Devices and methods for transluminal or transthoracic interstitial electrode placement
8,249,700	System and method for the simultaneous bilateral integrated tympanic drug delivery and guided treatment of target tissues within the ears
8,216,254	Anchor delivery system with replaceable cartridge
8,211,118	Apparatus and method for manipulating or retracting tissue and anatomical structure
8,190,389	Adapter for attaching electromagnetic image guidance components to a medical device
8,187,297	Devices and methods for treatment of obesity
8,172,828	Apparatus and methods for dilating and modifying ostia of paranasal sinuses and other intranasal or paranasal structures
8,157,815	Integrated handle assembly for anchor delivery system
8,142,422	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat

8,123,805	Adjustable absorber designs for implantable device
8,123,722	Devices, systems and methods for treating disorders of the ear, nose and throat
8,114,062	Devices and methods for delivering therapeutic substances for the treatment of sinusitis and other disorders
8,100,967	Adjustable absorber designs for implantable device
8,090,433	Methods and apparatus for treating disorders of the ear nose and throat
8,090,430	Methods and apparatus for acute or chronic delivery or substances or apparatus to extravascular treatment sites
8,088,166	Adjustable absorber designs for implantable device
8,088,101	Devices, systems and methods for treating disorders of the ear, nose and throat
8,083,708	Systems and methods for delivering drugs to selected locations within the body
8,080,000	Methods and apparatus for treating disorders of the ear nose and throat
8,075,580	Device, system and method for interstitial transvascular intervention
8,070,768	Devices and methods for treatment of obesity
8,043,309	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
8,007,503	Apparatus and method for manipulating or retracting tissue and anatomical structure
8,001,974	Devices and methods for treatment of obesity
7,976,554	Devices, tools and methods for performing minimally invasive abdominal surgical procedures
7,966,057	Methods and apparatus for guided transluminal interventions using vessel wall penetrating catheters and other apparatus
7,955,343	Methods and apparatus for blocking flow through blood vessel
7,951,158	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
7,914,542	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
7,909,836	Multi-actuating trigger anchor delivery system
7,905,889	Integrated handle assembly for anchor delivery system
7,896,891	Apparatus and method for manipulating or retracting tissue and anatomical structure
7,849,860	Methods and apparatus for transmyocardial direct coronary revascularization
7,846,172	Device, system and method for interstitial transvascular intervention
7,815,655	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
7,803,150	Devices, systems and methods useable for treating sinusitis
7,785,315	Methods for irrigation of ethmoid air cells and treatment of ethmoid disease
7,780,682	Apparatus and method for manipulating or retracting tissue and anatomical structure
7,771,409	Devices, systems and methods useable for treating sinusitis
7,766,923	Integrated handle assembly for anchor delivery system
7,758,594	Devices, systems and methods for treating benign prostatic hyperplasia and other conditions
7,729,738	Stabilized tissue penetrating catheters
7,727,226	Devices, systems and methods for treating disorders of the ear, nose and throat
7,727,186	Devices, systems and methods for diagnosing and treating sinusitis and other disorders of the ears, nose and/or throat

7,720,521	Methods and devices for performing procedures within the ear, nose, throat and paranasal sinuses
7,678,147	Extra-articular implantable mechanical energy absorbing systems and implantation method
7,670,329	Systems and methods for delivering drugs to selected locations within the body
7,655,041	Extra-articular implantable mechanical energy absorbing systems and implantation method
7,654,997	Devices, systems and methods for diagnosing and treating sinusitus and other disorders of the ears, nose and/or throat
7,648,517	Catheters and related devices for forming passageways between blood vessels or other anatomical structures
7,648,367	Anatomical models and methods for training and demonstration of medical procedures
7,645,286	Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues or anatomical structures
7,645,272	Devices, systems and methods for treating disorders of the ear, nose and throat
7,641,644	Devices, systems and methods for treating disorders of the ear, nose and throat
7,637,870	Tissue penetrating catheters having integral imaging transducers and their methods of use
7,611,540	Extra-articular implantable mechanical energy absorbing systems and implantation method
7,606,615	Methods and apparatus for acute or chronic delivery of substances or apparatus to extravascular treatment sites
7,500,971	Devices, systems and methods for treating disorders of the ear, nose and throat
7,462,175	Devices, systems and methods for treating disorders of the ear, nose and throat
7,419,497	Methods for treating ethmoid disease
7,410,480	Devices and methods for delivering therapeutic substances for the treatment of sinusitis and other disorders
7,407,506	Device, system and method for interstitial transvascular intervention
7,361,168	Implantable device and methods for delivering drugs and other substances to treat sinusitis and other disorders
7,357,794	Devices, systems and methods for acute or chronic delivery of substances or apparatus to extravascular treatment sites
7,316,655	Systems and methods for directing and snaring guidewires
7,303,571	Methods and apparatus for blocking flow through blood vessels
7,191,015	Devices and methods for transluminal or transthoracic interstitial electrode placement
7,179,270	Methods for bypassing total or near-total obstructions in arteries or other anatomical conduits
7,159,592	Methods and apparatus for transmyocardial direct coronary revascularization
D534,216	Anatomical model and demonstration/training device
7,134,438	Methods and apparatus for bypassing arterial obstructions and/or performing other transvascular procedures
7,094,230	Systems and methods for delivering drugs to selected locations within the body
7,059,330	Methods and apparatus for bypassing arterial obstructions and/or performing other transvascular procedures
7,056,325	Transluminal methods and devices for closing, forming attachments to, and/or forming anastomotic junctions in, luminal anatomical structures
6,929,009	Method and apparatus for transmyocardial direct coronary revascularization

6,863,684	Deformable scaffolding multicellular stent
6,746,464	Device, system and method for interstitial transvascular intervention
6,726,677	Stabilized tissue penetrating catheters
6,709,444	Methods for bypassing total or near-total obstructions in arteries or other anatomical conduits
6,685,648	Systems and methods for delivering drugs to selected locations within the body
6,660,024	Tissue penetrating catheters having integral imaging transducers and their methods of use
6,655,386	Transluminal method for bypassing arterial obstructions
6,638,293	Methods and apparatus for blocking flow through blood vessels
6,616,675	Methods and apparatus for connecting openings formed in adjacent blood vessels or other anatomical structures
6,613,081	Deformable scaffolding multicellular stent
6,602,241	Methods and apparatus for acute or chronic delivery of substances or apparatus to extravascular treatment sites
6,579,311	Method for interstitial transvascular intervention
6,561,998	Transluminal devices, systems and methods for enlarging interstitial penetration tracts
6,544,230	Catheters, systems and methods for percutaneous in situ arterio-venous bypass
6,491,707	Transluminal methods and devices for closing, forming attachments to, and/or forming anastomotic junctions in, luminal anatomical structures
6,432,127	Devices for forming and/or maintaining connections between adjacent anatomical conduits
6,379,319	Systems and methods for directing and snaring guidewires
6,375,615	Tissue penetrating catheters having integral imaging transducers and their methods of use
6,302,875	Catheters and related devices for forming passageways between blood vessels or other anatomical structures
6,287,317	Transluminal methods and devices for closing, forming attachments to, and/or forming anastomotic junctions in, luminal anatomical structures
6,283,983	Percutaneous in-situ coronary bypass method and apparatus
6,283,951	Systems and methods for delivering drugs to selected locations within the body
6,231,587	Devices for connecting anatomical conduits such as vascular structures
6,190,353	Methods and apparatus for bypassing arterial obstructions and/or performing other transvascular procedures
6,159,225	Device for interstitial transvascular intervention and revascularization
6,090,063	Device, system and method for implantation of filaments and particles in the body
6,071,292	Transluminal methods and devices for closing, forming attachments to, and/or forming anastomotic junctions in, luminal anatomical structures
6,068,638	Device, system and method for interstitial transvascular intervention
5,830,222	Device, system and method for intersititial transvascular intervention
5,797,906	Retrograde tissue splitter and method
5,741,228	Implantable access device
5,683,349	Laparoscopic dissection tension retractor device and method
5,613,966	System and method for accessory rate control
5,569,297	Selective vascular compression device
5,474,057	Laparoscopic dissection tension retractor device and method
5,449,375	Method of making a hemostatic plug

5,449,355	Retrograde tissue splitter and method
5,380,290	Body access device
5,334,216	Hemostatic plug
5,324,306	Hemostatic implant introducer
5,292,309	Surgical depth measuring instrument and method
5,290,310	Hemostatic implant introducer
5,207,666	Passive shuttle metering device for implantable drug delivery system

INTERNATIONAL PATENTS:

Detailed Listing Available Upon Request

INVITED PRESENTATIONS, PANELS and LECTURES:

1. 2017 "Innovating a Career: A Career Innovating." Millennial Leadership Movement, Johnson & Johnson, Brusnwick, NJ

2. 2018 "Featured Speaker: From the Innovator's Workbench." Stanford University, Stanford, CA

3. 2018 "Investing in the Future of Health and Beauty." Aesthetic Innovation Symposium, New Orleans, LA

4. 2018 "MedTech Venture Capital." Wilson Sonsini Goodrich & Rosati MedTech Leaders Conference, San Francisco, CA

5. 2018 "Invited Lecture: Biomedical Innovation: A Transformation from Phenomenon to Proven Process." Institute for Medical Engineering and Science at MIT, Cambridge, MA

6. 2018 "Invited Lecture: A Transformation from Phenomenon to Proven Process." Biomedical Engineering Society, Walter H. Coulter Healthcare Innovation Plenary Lecture, Atlanta, GA

7. 2018 "Lessons Learned at NEA and the ExploraMed Incubator." The Health Technology Podcast, San Francisco, CA

8. 2019 "Invited Lecture: The Acclarent Story." STRAMGT 354: Entrepreneurship and Venture Capital Class, Stanford University, Stanford, CA

9. 2019 "Invited Lecture: A Transformation from Phenomenon to Proven Process." United States Patent and Trademark Office Summit, Washington, DC

10. 2019 "The Innovation Process Behind the Invention of NeoTract's UroLift System." Benign Prostatic Hypertrophy Summit

11. 2019 "The Biodesign Process: Application and Success in the Real World." MedTech Innovation Summit, California

12. 2020 "Keynote Address: A Career in Innovation." Biomedical Engineering – Innovation, Design & Entrepreneurship Conference, Virtual Conference

13. 2020 "Tech Visionaries Explore the Future of Innovation." SEMICON West 2020, Virtual Conference

14. 2020 "Invited Lecture: The Origins of the Biodesign Process." MIT HST Evaluating Biomedical Enterprise Class, Virtual Presentation

15. 2020 "Entrepreneur/VC Panel on SBIR/STTRs." NIH SBIR/STTR Committee Meeting 5, Virtual Conference

16. 2020 "Strengthening Global Collaboration – How Rambam/Stanford Biodesign Programs Can Help Boost Israeli Innovation." California Israel Chamber of Commerce Webinar Series, Virtual Conference

17. 2020 "MedTech in the Age of the Pandemic: Paths to Recovery." MedTech Strategist Investment & Partnering Summit, Virtual Conference

18. 2020 "Medtech Innovation in the COVID19 Era: Challenges and Emerging Opportunities; The Post-COVID World of Innovation." Transcatheter Therapeutics Conference, Virtual Conference

19. 2021 "Medtech Innovation, a Conversation with Josh Makower." Wilson Sonsini's 28th Annual Medical Device Conference. Virtual Conference

20. 2021 "Biomedical Innovation: A Transformation from Phenomenon to Proven Process" Johns Hopkins BME Virtual Seminar Series

21. 2021 "Biomedical Innovation: a Transformation from Phenomenon to Proven Process" ICI Meeting 2021 Virtual Conference.

22. 2022 "Trends on Life Science and Entrepreneursihp" Keynote, CES Forum 2022, Las Vegas, NV.

23. 2022 "Meet Josh Makower: The Inventors of Aesthetics Series #2" Podcast. The Technology of Beauty. Grant Stevens, MD. Los Angeles, CA.

24. 2022 "Invited Lecture: Biodesign Program" EE Faculty, Stanford, University, Stanford, CA.

25. 2022 " Health Technology Innovation: From Phenomenon to Proven Process" Stanford Medicine Grand Rounds, Stanford, CA.

26. 2022 "Fixing Reimbursement and other Policy Issue" Wilson Sonsini's 29th Annual Medical Device Conference, San Francisco, CA.

27. 2022 "Health Technology Innovation: From Phenomenon to Proven Process" Ethicon Front-End Innovation Summit 2022.

28. 2023 "Powering Up Innovation in a Digital, Connected World" LSI Emerging Medtech Summit 2023.