



Joshua Makower

Academic Staff - Hourly - CSL, Medicine - Cardiovascular Medicine

CONTACT INFORMATION

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Bio

BIO

Dr. Josh Makower serves on the faculty of the Stanford University Medical School as an Adjunct Professor of Medicine and is Co-Founder of Stanford's Biodesign Innovation Program (now called the Byers Center for Biodesign). Josh helped create the fundamental structure of the Center's core curriculum and is the chief architect of what is now called "The Biodesign Process." Over the past 18 years since Josh and Dr. Paul Yock founded the Stanford Biodesign Innovation Program, this curriculum and the associated textbook has been used at Stanford and across the world to train thousands of students, faculty and industry leaders on the biodesign process towards the advancement of medical innovation for the improvement of patient care. Josh has practiced these same techniques directly as the Founder & Executive Chairman of ExploraMed, a medical device incubator, creating 8 companies since 1995. Transactions from the ExploraMed portfolio include NeoTract, acquired by Teleflex, Acclarent, acquired by J&J, EndoMatrix, acquired by C.R. Bard & TransVascular, acquired by Medtronic. Other ExploraMed/NEA ventures include Moximed, Nuelle and Willow. Josh is currently also working with NEA where he is a General Partner on their healthcare team leading the medtech/healthtech practice. Josh serves on the board of Setpoint Medical, DOTS Technologies, Eargo, ExploraMed, Intrinsic Therapeutics, Moximed, Willow and Coravin. Josh holds over 300 patents and patent applications. He received an MBA from Columbia University, an MD from the NYU School of Medicine, a bachelor's degree in Mechanical Engineering from MIT and is a Member of the College of Fellows of The American Institute for Medical and Biological Engineering and was awarded the Coulter Award for Healthcare Innovation by the Biomedical Engineering Society in 2018.

ACADEMIC APPOINTMENTS

- Academic Staff - Hourly - CSL, Medicine - Cardiovascular Medicine

ADMINISTRATIVE APPOINTMENTS

- General Partner, NEA, (2003- present)
- Executive Chairman & Founder, ExploraMed, Inc., (1995- present)
- Chairman of the Board & Founder, Willow / ExploraMed NC7, (2014- present)
- Board of Directors, Setpoint Medical, (2016- present)
- Board of Directors, Eargo, Inc., (2015- present)
- Chairman of the Board, DOTS Technologies, (2015- present)
- Board of Directors and Co-Founder, Coravin, Inc., (2002- present)

- Chairman of the Board & Founder, Moximed, Inc., (2007- present)
- Board of Directors, Intrinsic Therapeutics, Inc., (2000- present)

HONORS AND AWARDS

- Coulter Award for Healthcare Innovation, Biomedical Engineering Society (2018)
- Member of the College of Fellows, The American Institute for Medical and Biological Engineering (2017)
- M.I.T. Award for Excellence in Undergraduate Teaching, M.I.T. (1995)

PROFESSIONAL EDUCATION

- MBA, Columbia University , Business (1993)
- M.D., NYU School of Medicine , Medicine (1989)
- S.B., M.I.T. , Mechanical Engineering (1985)

LINKS

- Stanford Biodesign: <http://biodesign.stanford.edu>
- NEA: <http://www.nea.com>
- ExploraMed: <http://www.exploramed.com>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Josh Makower serves on the faculty of the Stanford University Medical School as an Adjunct Professor of Medicine and is Co-Founder of Stanford's Biodesign Innovation Program (now called the Byers Center for Biodesign). Josh helped create the fundamental structure of the Center's core curriculum and is the chief architect of what is now called "The Biodesign Process." Over the past 18 years since Josh and Dr. Paul Yock founded the Stanford Biodesign Innovation Program, this curriculum and the associated textbook has been used at Stanford and across the world to train thousands of students, faculty and industry leaders on the biodesign process towards the advancement of medical innovation for the improvement of patient care. Josh has practiced these same techniques directly as the Founder & Executive Chairman of ExploraMed, a medical device incubator, creating 8 companies since 1995. Transactions from the ExploraMed portfolio include NeoTract, acquired by Teleflex, Acclarent, acquired by J&J, EndoMatrix, acquired by C.R. Bard & TransVascular, acquired by Medtronic. Other ExploraMed/NEA ventures include Moximed, Nuelle and Willow. Josh is currently also working with NEA where he is a General Partner on their healthcare team leading the medtech/healthtech practice. Josh serves on the board of Setpoint Medical, DOTS Technologies, Eargo, ExploraMed, Intrinsic Therapeutics, Moximed, Willow and Coravin. Josh holds over 300 patents and patent applications. He received an MBA from Columbia University, an MD from the NYU School of Medicine, a bachelor's degree in Mechanical Engineering from MIT and is a Member of the College of Fellows of The American Institute for Medical and Biological Engineering and was awarded the Coulter Award for Healthcare Innovation by the Biomedical Engineering Society in 2018.

Publications

PUBLICATIONS

- **Inspiration, perspiration, and execution: An innovator's perspective** *SURGERY*
Makower, J.
2017; 161 (5): 1187-1190
- **Outcomes from a Postgraduate Biomedical Technology Innovation Training Program: The First 12 Years of Stanford Biodesign** *ANNALS OF BIOMEDICAL ENGINEERING*
Brinton, T. J., Kurihara, C. Q., Camarillo, D. B., Pietzsch, J. B., Gorodsky, J., Zenios, S. A., Doshi, R., Shen, C., Kumar, U. N., Mairal, A., Watkins, J., Popp, R. L., Wang, et al
2013; 41 (9): 1803-1810

- **A Role for Entrepreneurs An Observation on Lowering Healthcare Costs via Technology Innovation** *AMERICAN JOURNAL OF PREVENTIVE MEDICINE*
Gottlieb, S., Makower, J.
2013; 44 (1): S43-S47
- **Applying a Structured Innovation Process to Interventional Radiology: A Single-Center Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Sista, A. K., Hwang, G. L., Hovsepian, D. M., Sze, D. Y., Kuo, W. T., Kothary, N., Louie, J. D., Yamada, K., Hong, R., Dhanani, R., Brinton, T. J., Krummel, T. M., Makower, et al
2012; 23 (4): 488-494
- **Biodesign: The Process of Innovating New Medical Technologies**
Yock, P., Zenios, S., Makower, J., et al
Cambridge.2010
- **Inventing our future: training the next generation of surgeon innovators.** *Seminars in pediatric surgery*
Krummel, T. M., Gertner, M., Makower, J., Milroy, C., Gurtner, G., Woo, R., Riskin, D. J., Binyamin, G., Connor, J. A., Mery, C. M., Shafi, B. M., Yock, P. G.
2006; 15 (4): 309-318
- **Principles of Innovation** *Interventional Cardiology*
Makower, J., Nayak, A.,
2006; Chapter 71
- **Percutaneous transvenous cellular cardiomyoplasty - A novel nonsurgical approach for myocardial cell transplantation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Thompson, C. A., Nasser, B. A., Makower, J., Houser, S., McGarry, M., Lamson, T., Pomerantseva, I., Chang, J. Y., Gold, H. K., Vacanti, J. P., Oesterle, S. N.
2003; 41 (11): 1964-1971
- **New Approaches and Conduits: In Situ Venous Arterialization and Coronary Artery Bypass.** *Current interventional cardiology reports*
Fitzgerald, Hayase, Yeung, Virmani, Robbins, Burkhoff, Makower, Yock, OESTERLE
1999; 1 (2): 127-137
- **The Characterization of the Dexterous Hand Master Index Finger in Flexion and Extension** *The Association for the Advancement of Medical Instrumentation*
Makower, J., Parnianpour, M., Nordin, M.
1990; May: 61
- **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*
Makower, J., Parnianpour, M., Nordin, M.
1990; August