

Bioengineering for Girls

Partners + Advisors



Meena Subramanyam, Ph.D.

**VP + Global Program Leader,
Takeda Pharmaceuticals**

Dr. Meena Subramanyam is vice president and global program Leader in the gastroenterology division at Takeda Pharmaceuticals. In this capacity, Dr. Subramanyam oversees the strategic development of therapeutic assets for gastric motility indications. Previously, Dr. Subramanyam was vice president at Biogen in Cambridge, Mass., in the Global Biomarker Discovery and Development Division where she held broad responsibilities for developing the biomarker and diagnostics strategy for pipeline products in clinical development. Dr. Subramanyam has over 20 years of experience in the Biotechnology industry. She served as the chair of the National Biotechnology Conference in 2017, and as chair of the BIOTEC section of the American Association of Pharmaceutical Scientists. She also serves as a member of the Biotechnology Industrial Advisory Board of Northeastern University in Boston. Dr. Subramanyam has authored several scientific publications and white papers on topics related to therapeutic drug development.

Dr. Brandon Green, M.D.

**Chief Medical Officer,
Myomo, Inc.**

Dr. Brandon Green is the chief medical officer at Myomo, Inc., a medical robotics company in Cambridge, Mass. Dr. Green is a licensed physician, with training in general surgery and physical medicine/rehabilitation and is board certified in prosthetics. He specializes in upper extremity prosthetic and orthotic rehab, and has diverse work experience in this space ranging from direct clinical care, academic lecturing, and technology R&D, to patient advocacy for access to insurance coverage from both public and private payers.



Robert Troug, M.D.

**Pediatric Intensive Care Specialist, Boston Children's Hospital
Professor, Harvard Medical School**

Dr. Robert Troug is the Frances Glessner Lee professor of medical ethics, Anaesthesiology & Pediatrics at Harvard Medical School, where he serves as Director of the Center for Bioethics, leading educational and academic initiatives across the medical school. He has practiced pediatric intensive care medicine at Boston Children's Hospital for more than 30 years, including serving as chief of the division for more than a decade. He has published more than 300 articles and books in bioethics and related disciplines, including *"Talking with Patients and Families about Medical Error"* (2010, Hopkins) and *"Death, Dying, and Organ Transplantation"* (2012, Oxford). In 2013 he was honored with the Spinoza Chair at the University of Amsterdam.



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William R. Wagner, M.D.

**Director,
McGowan Institute for Regenerative Medicine**

Dr. William R. Wagner is the director of the McGowan institute for regenerative Medicine as well as a professor of surgery, bioengineering and chemical engineering at the University of Pittsburgh. He also serves as scientific director of the NSF Engineering Research Center on "Revolutionizing Metallic Biomaterials" and chief science officer for the Armed Forces Institute of Regenerative Medicine. Professor Wagner is the founding editor and editor-in-chief of one of the leading biomaterials journals, *Acta Biomaterialia*, and is a past-president of the American Society for Artificial Internal Organs (ASAIO). Currently he serves as chairman for the Tissue Engineering and Regenerative Medicine International Society (TERMIS) Americas region. Dr. Wagner's research interests are generally in the area of cardiovascular engineering with projects that address medical device biocompatibility and design, biomaterial development, tissue engineering, and targeted imaging.

Lauren Lyons

**STEM Advocate +
SpaceX Engineer**

Lauren graduated from Princeton University with a bachelor's degree in Mechanical and Aerospace Engineering and a Certificate in bioengineering, and received her master's in business and government policy from the Harvard Kennedy School of Government. She has worked as a medical device R&D engineer for Medtronic, a science writer for the World Economic Forum, a Mars robotics engineer at NASA, and a leadership instructor at Harvard. Lauren currently works as an engineer at SpaceX, where she focuses on the certification and reliability efforts for the crewed Dragon spacecraft, bound for the International Space Station. A long time STEM advocate, she regularly engages in public outreach activities centered around getting young people excited about Space Exploration.



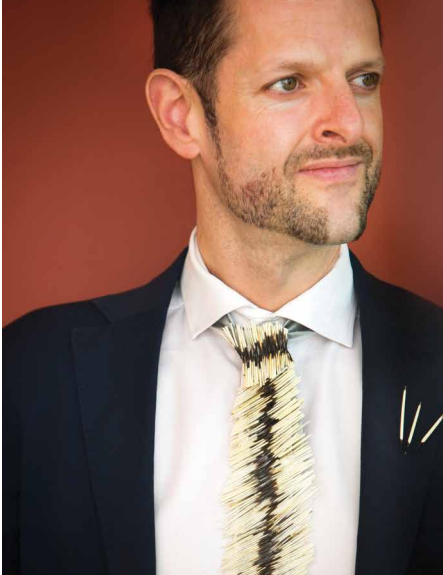
Conor Walsh

**Associate Professor of Engineering +
Applied Sciences, Harvard University**

Conor Walsh is the John L. Loeb Associate Professor of Engineering and Applied Sciences at the Harvard John A. Paulson School of Engineering & Applied Sciences, and a core faculty member at the Wyss Institute at Harvard University. He founded and directs the Harvard Biodesign Lab, which brings together researchers from the engineering, industrial design, apparel, clinical and business communities to develop new disruptive robotic technologies for augmenting and restoring human performance. In addition, his group has ongoing work in engineering education and STEM outreach including the www.softroboticstoolkit.com. Conor is the winner of multiple awards including the MIT Technology Review Innovator Under 35 Award, IEEE Early Academic Career Award in Robotics and Automation, the Rolex Award for Enterprise, Popular Science Brilliant 10, National Science Foundation Career Award, the Robotics Business Review Next Generation Game Changer Award and the MIT 100K Entrepreneurship Competition Grand Prize.

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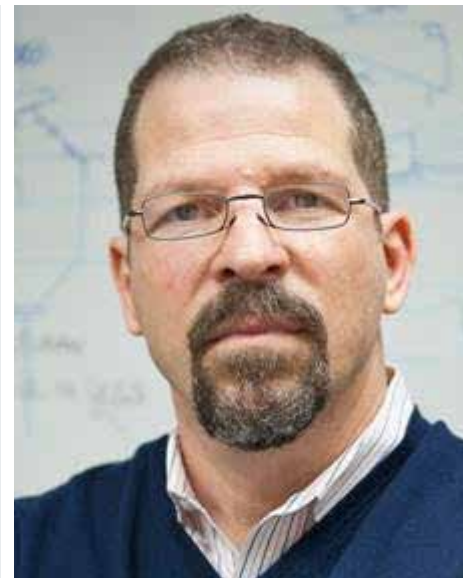


Jeff Karp, M.D.
Principal Faculty,
Harvard Stem Cell Institute

Dr. Jeff Karp is a leading researcher in the fields of drug delivery, medical devices, stem cell therapeutics, and tissue adhesives. He is an associate professor at Brigham and Women's Hospital, Harvard Medical School, principal faculty at the Harvard Stem Cell Institute, and an affiliate faculty at the Broad Institute and at the Harvard-MIT Division of Health Sciences and Technology. Several technologies developed in his lab have formed the foundation for multiple products on the market and currently under development and for the launch of four companies including Skintifique, Gecko Biomedical, Alivio Therapeutics, and Frequency Therapeutics. Dr. Karp was selected as the Outstanding Faculty Undergraduate Mentor among all faculty at MIT and he received the HST McMahon Mentoring award for being the top mentor of Harvard-MIT students. To date, 18 trainees from his laboratory have secured faculty positions and several have transitioned into impactful careers in pharmaceuticals, biotech, medtech, and venture capital.

Jeffrey Ruberti, Ph.D.
Professor of Bioengineering,
Northeastern University

Professor Ruberti is a professor of bioengineering at Northeastern University and chair of the Bioengineering Graduate Ph.D. program. He has served as an associate consultant at Cambridge Polymer Group between 2001 and 2004; as lecturer at the Massachusetts Eye and Ear Infirmary at Harvard University; as adjunct assistant scientist of the Schepens Eye Research Institute at Harvard University; and as consultant for the Department of Ophthalmology at Boston University Medical School. His research has resulted in the issuance of 16 patents, and the pending issuance of four more. He has served as a reviewer for the NIH and the NSF, and as a reviewer for many scientific journals in the areas of ophthalmology, materials, biomechanical engineering, biophysics, and cell and tissue engineering. He is currently an associate editor for the *Journal of Biomechanical Engineering*.



Rae Simpson
Science Writer + Consultant

Rae Simpson is a widely published journalist and consultant committed to increasing public understanding about serious mental illness. She is engaged in a multi-project initiative to study and change public attitudes, in collaboration with the Boston Museum of Science, Frameworks Institute, and 99 Faces Project, among others. Her consultancy includes the World Health Organization, the United Nations, the National Science Foundation, Harvard, CBS, and WGBH. Rae has served as a special consultant to the Harvard Center for Health Communication and developed MIT's Work-Life Center, where she also founded MIT's first science writing program.

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Cherié Butts, Ph.D.

**Cellular Immunologist,
Biogen**

Cherié Butts (R+D Strategy and Portfolio Leadership) is a cellular immunologist who serves as Portfolio Lead for Neuroimmunology + Acute Neurology at Biogen (Cambridge, Mass.). She obtained undergraduate and graduate degrees from The Johns Hopkins University. Her pre-doctoral studies characterized anti-tumor immune responses in ovarian cancer patients and postdoctoral studies at the National Institutes of Health examined neuroendocrine regulation of innate immunity. She continued this work at the US Food and Drug Administration, taking on additional responsibilities of evaluating drug and biologics applications. She now leads therapeutic and disease area strategy to help scientists and clinicians appreciate how assets address a specific unmet medical need for patients afflicted with debilitating conditions. She is passionate about ensuring individuals from all backgrounds contribute to the furtherance of biomedical research and works with professional societies, scientific and professional development organizations, and biomedical research institutions to do so. She currently serves on the Board of Overseers and Research Oversight Committee of Beth Israel Deaconess Medical Center and Board of Directors of Keystone Symposia and is Adjunct Associate Professor at University of Maryland.