

Danny Bluestein, Ph.D. is a Professor of Biomedical Engineering at Stony Brook University. He received his bachelor degree in Aeronautical Engineering from the Technion, Israel, and Ph.D. in biomedical Engineering at Tel Aviv University, Israel. His research interests include the elucidation of physical forces that regulate cellular function in flowing blood, and translation of this knowledge to numerical and experimental strategies aimed at improving the design of blood recirculating devices such as prosthetic heart valves, ventricular assist devices and the total artificial heart, developing multiscale modeling approaches to describe blood clotting, and enhancing clinical diagnostics of cardiovascular diseases by using patient based numerical simulations. He is the author over 100 peer reviewed scientific articles. He served as an associate editor of the ASME Journal of Medical Devices and is a member of the editorial board of Expert Review of Medical Devices and Heart International. He is an active member in the Biomedical Engineering Society, Bioengineering Division of the American Society for Mechanical Engineers where he served as the elected chair of the BED Biofluids technical committee, and the International Hemodynamic Society.

Dr. Bluestein has received several major honors and awards including the Established Investigator Award from the American Heart Association and the Quantum award from the NIBIB, and was elected as a Fellow of the American Institute of Medical and Biological Engineering. His research has been sponsored by various federal agencies and private foundations including the National Institutes of Health, the National Science Foundation, and the American Heart Association.

