CHEMICAL AND BIOMEDICAL ENGINEERING GRADUATE SEMINAR ANNOUNCEMENT

The Fluid Mechanics of Vascular Diseases and Targeted Therapeutics

Dr. Netanel Korin Associate Professor, Biomedical Engineering Technion-Israel Institute of Technology Haifa, Israel

Friday, Sept. 29 11:00 a.m. COE B221



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Dr. Korin is an Associate Professor at the Faculty of Biomedical Engineering at the Technion-Israel

Institute of Technology and the head of the Cardiovascular NanoMed Engineering lab. Prior to

joining the Technion, Dr. Korin was a Wyss Technology Development Fellow and a Research



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Associate at the Wyss Institute for Biologically Inspired Engineering at Harvard University.

He received a Bachelor's degree in mechanical engineering, a Master's and a Ph.D.

in Biomedical Engineering from the Technion, Israel. Dr. Korin has also won
several honors and awards including The Melvin and Caroline Miller
Innovation Award, a Wyss Technology Development Fellowship.

The cardiovascular (CV) system is a highly dynamic system where the interplay between vascular physiology, hemodynamics, and transport phenomena plays a dominant role in health and disease. Abnormal features of local blood flow (e.g., low/high shear stress, eddies, etc) have been associated with a variety of vascular diseases including atherosclerosis, brain and aortic aneurysms, stroke, heart valve disease and arterial thrombosis. Unraveling the biophysical features of abnormal flow and their role in vascular diseases may be valuable for understanding the etiology of these pathologies and can be leveraged to develop innovative therapeutic and diagnostic approaches. In this talk I will describe our recent work on pathological hemodynamic and targeted drug delivery to high-risk brain aneurysms and on human reconstructed blood vessel in vitro models recapitulating vascular diseases including thrombosis.