BME Seminar Series

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University of Maryland, College Park

Date: Monday, October 2, 2017
Time: 1:30 pm
Location: Clark Hall 110, Homewood Campus
Video-teleconferenced to Traylor 709, East Baltimore Medicine Campus

Host: Dr. Feilim Mac Gabhann

Design and Delivery of Biotherapeutics: Engineered proteins and extracellular vesicles

Abstract: Our lab focuses on molecular engineering towards development of novel biomolecules with therapeutic potential. Additionally, we explore the therapeutic potential of extracellular vesicles (exosomes) as drug delivery vehicles and alternatives to cell-based therapies. This talk will focus on our efforts to engineer antibody-mimetic proteins for HER3-targeted cancer therapy and to enhance the potency and scalable production potential of extracellular vesicles for therapeutic vascularization applications.

Speaker Bio: Steve Jay is an assistant professor in the Fischell Department of Bioengineering at the University of Maryland. After earning a B.S.B.E. in biological engineering from the University of Georgia (2004), he completed his Ph.D. in biomedical engineering at Yale University (2009) under the guidance of Dr. Mark Saltzman. From 2009-2013, he undertook a postdoctoral fellowship in cardiovascular biology and bioengineering with Dr. Richard Lee at the Brigham and Women’s Hospital/Harvard Medical School, working also with Dr. Linda Griffith at MIT. He joined the University of Maryland in 2013, where his lab focuses on biotherapeutic development and delivery for a variety of disease applications.