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HST.939 Designing and Sustaining Technology Innovation for Global Health Practice  
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Utkan is an Instructor (Assistant Professor) at Harvard-MIT Health Sciences and Technology and Harvard Medical School. Utkan received his B.S. degree in Electrical Engineering in 1999 as a James B. Angell Scholar (Summa Cum Laude) from University of Michigan, Ann Arbor. He received his M.S. degree in 2001 in Electrical Engineering, M.S. degree in Management Science and Engineering in 2005 and Ph.D. in Electrical Engineering in 2005 all from Stanford University. Dr. Demirci worked at Massachusetts General Hospital, Harvard Medical School as a research fellow for his postdoctoral training. He was selected to TR-35 in 2006 as one of the world's top 35 young innovators under the age of 35 by the Technology Review. He is one of the few recipients of the prestigious Full Presidential Fellowship given by the Turkish Ministry of Education. He is a corecipient of the 2002 Outstanding Paper Award of the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society. He is the winner of Stanford University Entrepreneur's Challenge Competition in 2004 and Global Start-up Competition in Singapore in 2004. He is a member of Phi Kappa Phi National Honor Society. He is a member of the IEEE. His research interests involve biological applications of Microelectromechanical Systems (MEMS) and acoustics, especially: microfluidics for low cost CD4 counts for HIV in resource-limited-settings for global health problems; acoustic picoliter droplets for cell-by-cell 3D tissue generation, and semiconductor applications; capacitive micromachined ultrasonic arrays (CMUTS) for medical imaging applications.