

David Coven  
Cell BioMechanics  
Dr. Nathan Sniadecki , Wes Tooley, Ariel Medina  
LSAMP Conference 2/15/13  
Abstract

The mission is to understand the mechanics of cells within specific environments and the forces they generate. We looked at methods to develop micro-platforms to place cells on so we could simulate specific and controllable environments. We can use the knowledge of how cells exert force in specific environment to build systems that offer quick, accurate prognosis for patients under specific circumstances. Through this we can gain an understanding of normal and diseased physiology at a fundamental level.