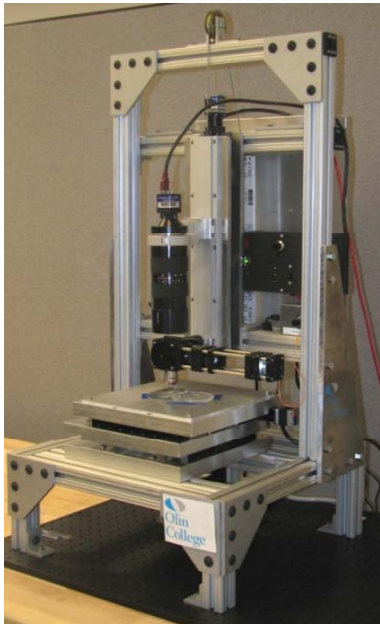


MRSEC / SCOPE

David Barrett, Olin; Seth Fraden, Brandeis MRSEC (DMR-0820492)

Olin Senior Engineering Project



During the academic year, F08 – S09, Olin undergraduates Sean Calvo, Caitlin Greeley, Stephani Gulbrandsen, and Leif Jentoft designed, built, and tested a flexible automated microscopy platform capable of imaging an area up to 100mm x 100mm with a resolution of 10 microns at 4.8 second per square mm. It reduces the cost of performing microfluidics research and increases the speed by allowing researchers to easily reconfigure and expand the system to their changing needs.

(a-b) Images of a chip taken by the system (a) scaled to demonstrate field of view and (b) cropped to demonstrate resolution (c) SCOPE team.

