Microfluidic SELEX
M.T. Bowser (PI), C.R. Harrison
Department of Chemistry, University of Minnesota

● DESCRIPTION OF WORK

◆ Development of a flow through polymerase chain reaction devise utilizing in-channel resistive heaters

◆ Single strand DNA isolation through the use of osmotic diffusion through a membrane separating counter current flows

● MAJOR OBSERVATIONS

◆ In-channel resistive heating allows much greater PCR flow rates

◆ Polycarbonate acts as ideal membrane between patterned PDMS channels

● Presentations

◆ Christopher R. Harrison “Development of Components for an Automated SELEX Chip” Analytical Seminar Series, University of Minnesota, March 5, 2007 (oral)