Microdevice for Single and Multiple Cell Docking and Analysis

OCR Number: OCR 6490

Description:

• Simple fail-safe device for the hydrodynamic capture and long term imaging of single cells
• Hydrodynamic traps allow to dock the cells in the device without any immobilizing chemicals that otherwise induce cell responses
• Pump and tube free microfluidic device that docks single cells with greater than 85% retention efficiency over 12 hours
• Permits fast exchange of solutions during stimulation
• Allows studies of dynamic response from hundreds of single mammalian cells
• US Patent application “Microdevice for Single and Multiple Cell Docking and Analysis”

Lead Innovator:
Kathryn Miller-Jensen, Ph.D.

PI: Kathryn Miller-Jensen

Licensing Contact: Richard Andersson
richard.andersson@yale.edu