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”

Microfluidic device that operates based on passive flow in order to dock cells in an array within a few minutes and retain them over many hours

Lead Innovator:
Kathryn Miller-Jensen, Ph.D

PI: Kathryn Miller-Jensen

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