**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”

---

**PI:** Kathryn Miller-Jensen

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