

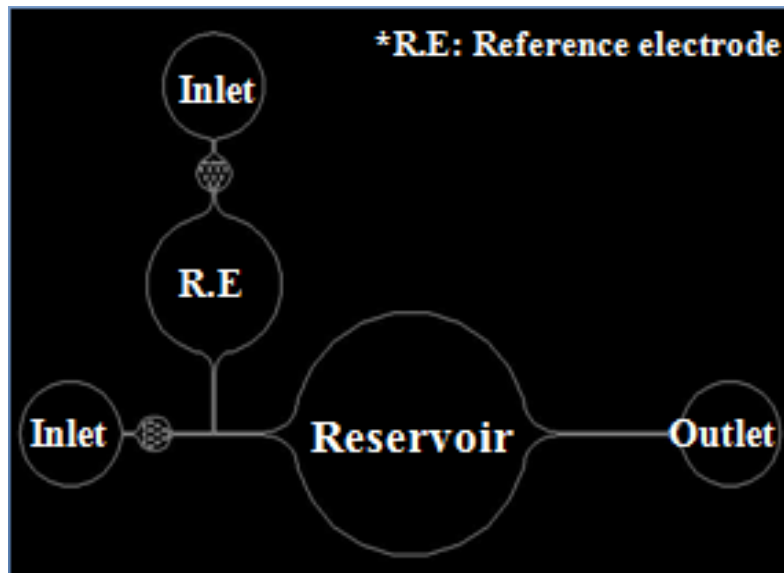
Development of a Microfluidic Platform for the Study of Immune Cell Interaction during Allergy Response

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DESCRIPTION OF WORK

- ◆ Development of microfluidic platforms with electrochemical detection scheme for immune cell exocytosis study
- ◆ On-chip immune cell characterization
- ◆ Study of cellular interaction on-a-chip

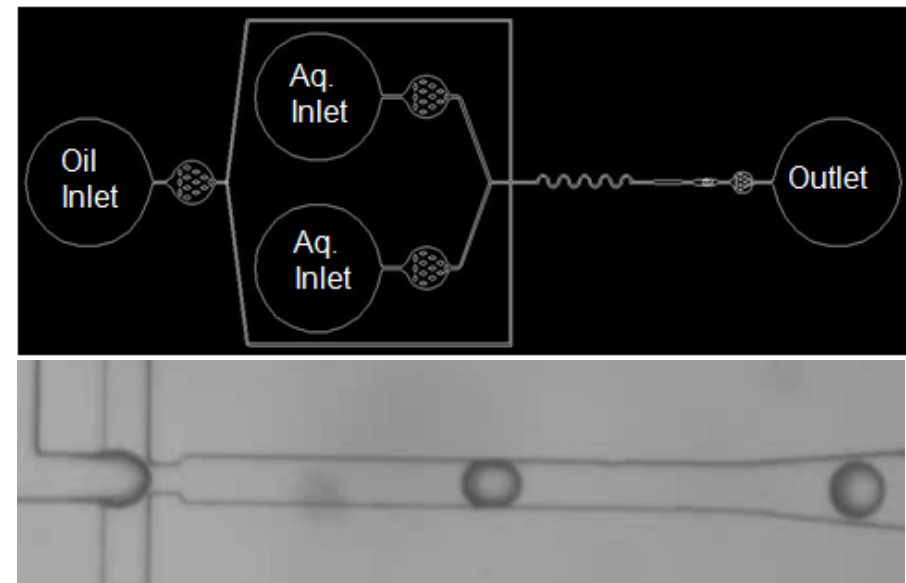


Type 1. Reservoir-based device

MAJOR OBSERVATIONS

To date,

- ◆ Devices have been fabricated as desired.
- ◆ Cells were successfully cultured in device type 1.
- ◆ Basic performance of device type 2 worked well and has been optimized.



Type 2. Droplet-based device