

Resource Summary Report

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Massachusetts Institute of Technology Koch Institute Flow Cytometry Core Facility

RRID:SCR_017895

Type: Tool

Proper Citation

Massachusetts Institute of Technology Koch Institute Flow Cytometry Core Facility
(RRID:SCR_017895)

Resource Information

URL: <https://ki.mit.edu/sbc/nanowell>

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Description: Nanowell Cytometry platform is shared resource housed in Flow Cytometry Core that provides Koch Institute and MIT researchers access to Microengraving and SeqWell technologies, developed in Love and Shalek Laboratories at Koch Institute. Microengraving platform enables measurement of multiple traits from individual cells derived from wide array of tissues or cell types, such as immune cells either in their native condition or upon stimulation. Platform allows simultaneous assessment from small or large numbers of cells. Additionally, it is possible to obtain genetic information from individual cells of interest. Platform has been employed in projects related to antibody discovery, tumor profiling from various cancer tissues, and immune cell functions in various allergic, infectious or auto-immune diseases. Core offers access to CellCelector, tool which enables users to isolate single cells using ultra-precise robotic micromanipulator. Offers access to nanowell microplates which enable automated isolation of monoclonal and viable clones. Seq-Well is portable, low-cost platform for massively-parallel single-cell RNA-Seq. Barcoded mRNA capture beads and single cells are sealed in array of subnanoliter wells using semi-permeable membrane, enabling efficient cell lysis and transcript capture.

Synonyms: Flow Cytometry: Nanowell Cytometry

Resource Type: access service resource, core facility, service resource

Keywords: Nanowell, cytometry, microengraving, SeqWell, cell, tissue, immune, assess, number, antibody, discovery, tumor, profiling, cancer, tissue, allergic, infectious, auto immune, disease, isolate, single, cell, nanowell, microplate, RNAseq, mRNA, service, core, ABRF

Availability: Restricted

Resource Name: Massachusetts Institute of Technology Koch Institute Flow Cytometry Core Facility

Resource ID: SCR_017895

Alternate IDs: ABRF_768

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Ratings and Alerts

No rating or validation information has been found for Massachusetts Institute of Technology Koch Institute Flow Cytometry Core Facility.

No alerts have been found for Massachusetts Institute of Technology Koch Institute Flow Cytometry Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.