

Resource Summary Report

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CHB Cell Sorter Core

RRID:SCR_009706

Type: Tool

Proper Citation

CHB Cell Sorter Core (RRID:SCR_009706)

Resource Information

URL: <http://harvard.eagle-i.net/i/0000012d-9ff6-5676-4882-b08d80000000>

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Description: Core facility that provides the following services: Flow cytometry analysis service, Cell cycle analysis, Cell sorting service, Side population cell sorting, Zebrafish cell sorting and analysis. The Stem Cell Core Facility has been part of the IDDRC center for more than 30 years fostering collaboration and innovation among IDDRC investigators and members of the academic research community. It was used to develop chromosome sorting for human chromosome specific recombinant libraries and these techniques were utilized by others to generate large scale libraries for the early genome project. The facility was the first to develop cell sorting of fetal cells in the maternal circulation as a means to detect fetal genetic abnormalities. Throughout its history the Stem Cell Core has provided careful and accurate cell cycle analysis via DNA content analysis using Hoechst dye uptake. This service is still used today by investigators. The facility was among the first to take advantage of the ability to express GFP in cells transfected with vectors and induced to express GFP in transgenic animals conditionally expressing a specific gene promoter. This ability allowed IDDRC investigators to isolate neurons, muscle cells and other cell types which express GFP from those which do not. IDDRC investigators were among the first to subsequently culture sorted neurons. Based on the extensive experience of the core using Hoechst dye for cell cycle analysis, the core was able to help IDDRC investigators prepare side population cells (tissue derived potential multipotent progenitor cells) based on Hoechst dye efflux. These methods have allowed the isolation of different muscle side population cells and have facilitated experiments that aim to use the cells for treating muscle disease. The interactive and collaborative nature of the core has fostered these developments, and the interests of the core director, advisory committee, manager and IDDRC investigators will continue to make this core as innovative in the future as it has been in the past. The overall goal of the Stem Cell Core Facility is to provide both IDDRC and non-IDDRC researchers comprehensive analytical flow cytometry and cell sorting services in a timely, dependable and cost-effective manner., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

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

Keywords: flow cytometry assay, cellular assay, cell cycle analysis assay, fluorescence activated cell sorting (facs)

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: CHB Cell Sorter Core

Resource ID: SCR_009706

Alternate IDs: nlx_156166

Alternate URLs: <http://core.iddrc.org/cell-sorter/>

Record Creation Time: 20220129T080254+0000

Record Last Update: 20260821T193858+0000

Ratings and Alerts

No rating or validation information has been found for CHB Cell Sorter Core.

No alerts have been found for CHB Cell Sorter Core.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Mansouri S, et al. (2019) Immature lung TNFR2- conventional DC 2 subpopulation activates moDCs to promote cyclic di-GMP mucosal adjuvant responses in vivo. Mucosal immunology, 12(1), 277.

Sakagami H, et al. (2018) Search of Neuroprotective Polyphenols Using the "Overlay" Isolation Method. Molecules (Basel, Switzerland), 23(8).

Zhen J, et al. (2014) Effects of grape seed proanthocyanidin extract on pentylenetetrazole-induced kindling and associated cognitive impairment in rats. International journal of molecular medicine, 34(2), 391.

Zhen JL, et al. (2014) Chronic intermittent hypoxic preconditioning suppresses pilocarpine-induced seizures and associated hippocampal neurodegeneration. Brain research, 1563, 122.

Shirasaki R, et al. (2012) Chronic Myelogenous Leukemia Cells Contribute to the Stromal Myofibroblasts in Leukemic NOD/SCID Mouse In Vivo. *Journal of oncology*, 2012, 901783.

Schumacher A, et al. (2012) Blockage of heme oxygenase-1 abrogates the protective effect of regulatory T cells on murine pregnancy and promotes the maturation of dendritic cells. *PloS one*, 7(8), e42301.