

Resource Summary Report

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Isolation of live single cells from intestinal biopsy

DOI:10.17504/protocols.io.bst7nern

Type: Protocol

Proper Citation

Tatiana Karakasheva, Kathryn Hamilton 2021. Isolation of live single cells from intestinal biopsy. protocols.io dx.doi.org/10.17504/protocols.io.bst7nern

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bst7nern>

Authors: Tatiana Karakasheva, Kathryn Hamilton

Group: CHOP Gastrointestinal Epithelium Modeling Program

Summary: This protocol describes dissociation of a human intestinal biopsy tissue into single cells, followed by depletion of dead cells via annexin V MACS beads. The outcome is a single-cell suspension with viability ? 90% that is used for single-cell sequencing or establishment of enteroid/colonoid culture.

Affiliations: Children's Hospital of Philadelphia, Gastrointestinal Epithelium Modeling Program, Children's Hospital of Philadelphia Division of Gastroenterology

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