Resource Summary Report

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Intestinal Stem Cell Consortium

RRID:SCR_001555
Type: Tool

Proper Citation

Intestinal Stem Cell Consortium (RRID:SCR_001555)

Resource Information

URL: http://iscc.coh.org/

Proper Citation: Intestinal Stem Cell Consortium (RRID:SCR_001555)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 23,2022. Consortium to advance the understanding of intestinal epithelial stem cell biology during development, homeostasis, regeneration and disease. Its immediate goals are to isolate, characterize, culture and validate populations of intestinal stem cells; answer major questions in stem cell biology of the intestinal epithelium; and accelerate research by making information and resources available to the research community. Resources include data sets, protocols, and a resource catalog. Long-term goals include: 1) laying the ground work for therapeutic manipulation of the intestinal epithelium 2) contributing to the greater understanding of stem cell biology through knowledge of the intestine as a model stem cell-driven system. Research Projects are housed at 8 institutions across the nation: Oregon Health & Science University, Stanford University, Stowers Institute for Medical Research, University of California, Los Angeles School of Medicine (UCLA) (partnered with the VA Greater Los Angeles), University of North Carolina, Chapel Hill (UNC), University of Oklahoma, University of Pennsylvania, and University of Pittsburgh.

Abbreviations: ISCC

Synonyms: ISCC - Intestinal Stem Cell Consortium

Resource Type: experimental protocol, narrative resource, portal, database, consortium, organization portal, catalog, resource, data or information resource

Keywords: intestinal, epithelial stem cell, development, homeostasis, regeneration, disease, intestine, stem cell, intestinal stem cell, intestinal epithelium, stem cell, antibody, epithelium, data set

Funding: NIDDK U01DK085532

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

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Resource ID: SCR_001555

Alternate IDs: nlx_152862

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Ratings and Alerts

No rating or validation information has been found for Intestinal Stem Cell Consortium .

No alerts have been found for Intestinal Stem Cell Consortium .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Blutt SE, et al. (2018) Engineered Human Gastrointestinal Cultures to Study the Microbiome and Infectious Diseases. Cellular and molecular gastroenterology and hepatology, 5(3), 241.

Spence JR, et al. (2018) Taming the Wild West of Organoids, Enteroids, and Mini-Guts. Cellular and molecular gastroenterology and hepatology, 5(2), 159.

Lanik WE, et al. (2018) Stem Cell-Derived Models of Viral Infections in the Gastrointestinal Tract. Viruses, 10(3).

Mebarki M, et al. (2018) Human-cell-derived organoids as a new ex vivo model for drug assays in oncology. Drug discovery today, 23(4), 857.

Zou WY, et al. (2018) Epithelial WNT Ligands Are Essential Drivers of Intestinal Stem Cell Activation. Cell reports, 22(4), 1003.

Yu H, et al. (2017) The Contributions of Human Mini-Intestines to the Study of Intestinal Physiology and Pathophysiology. Annual review of physiology, 79, 291.

Yousefi M, et al. (2017) Hierarchy and Plasticity in the Intestinal Stem Cell Compartment. Trends in cell biology, 27(10), 753.

Hill DR, et al. (2017) Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium. eLife, 6.

Hill DR, et al. (2017) Real-time Measurement of Epithelial Barrier Permeability in Human Intestinal Organoids. Journal of visualized experiments : JoVE(130).

Jadhav U, et al. (2017) Dynamic Reorganization of Chromatin Accessibility Signatures during Dedifferentiation of Secretory Precursors into Lgr5+ Intestinal Stem Cells. Cell stem cell, 21(1), 65.

Chakradhar S, et al. (2017) Disease in three dimensions: Tissue engineering takes on infectious disease. Nature medicine, 23(1), 2.

Cruz-Acuña R, et al. (2017) Synthetic hydrogels for human intestinal organoid generation and colonic wound repair. Nature cell biology, 19(11), 1326.

Moorefield EC, et al. (2017) Aging effects on intestinal homeostasis associated with expansion and dysfunction of intestinal epithelial stem cells. Aging, 9(8), 1898.

Yan KS, et al. (2017) Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. Cell stem cell, 21(1), 78.

Hill DR, et al. (2017) Gastrointestinal Organoids: Understanding the Molecular Basis of the Host-Microbe Interface. Cellular and molecular gastroenterology and hepatology, 3(2), 138.

Hong SN, et al. (2017) Concise Review: The Potential Use of Intestinal Stem Cells to Treat Patients with Intestinal Failure. Stem cells translational medicine, 6(2), 666.

Chin AM, et al. (2017) Morphogenesis and maturation of the embryonic and postnatal intestine. Seminars in cell & developmental biology, 66, 81.

Tong K, et al. (2017) Degree of Tissue Differentiation Dictates Susceptibility to BRAF-Driven Colorectal Cancer. Cell reports, 21(13), 3833.

Short SP, et al. (2017) Using 3D Organoid Cultures to Model Intestinal Physiology and Colorectal Cancer. Current colorectal cancer reports, 13(3), 183.