

mRNA sequencing and LC-MS data for: Exposure of colon-derived epithelial monolayers to fecal luminal factors from patients with colon cancer and ulcerative colitis results in distinct gene expression patterns

SND-ID: 2024-455. **Version:** 1. **DOI:** <https://doi.org/10.5878/bdc2-kk22>

Download data

Gene counts and LC-MS.xlsx (8.53 MB)

Associated documentation

Data collection and method.docx (33.1 KB)

Explanation of variables.docx (14.43 KB)

Download all files

2024-455-1.zip (~8.57 MB)

Citation

Magnusson, M. (2024) mRNA sequencing and LC-MS data for: Exposure of colon-derived epithelial monolayers to fecal luminal factors from patients with colon cancer and ulcerative colitis results in distinct gene expression patterns (Version 1) [Data set]. University of Gothenburg. Available at: <https://doi.org/10.5878/bdc2-kk22>

Creator/Principal investigator(s)

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Research principal

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Description

Results from mRNA sequencing of epithelial monolayer cultures with fecal supernatants from patients with ulcerative colitis, colon cancer and healthy individuals. Results from LC-MS analysis of metabolites in the fecal supernatants.

The dataset contains:

Two document files where method and collection of data is explained.

One tabular data file containing results from the analysis.

Data contains personal data

No

Language

[English](#)

Population

Patients with ulcerative colitis, patients with colon cancer and healthy individuals.

Time Method

[Cross-section](#)

Study design

Experimental study

Description of study design

See attached file "Data collection and method"

Time period(s) investigated

2018 - 2019

Biobank is connected to the study

This study has used existing samples from a scientific collection or biobank

Data format / data structure

[Numeric](#)

Funding 1

- Funding agency: Swedish Research Council
- Funding agency's reference number: 2019-01052, 2018-02566

Funding 2

- Funding agency: Apotekare Hedbergs foundation
- Project name on the application: Resolution av inflammation hos patienter med ulcerös kolit

Funding 3

- Funding agency: ALF-agreement
- Funding agency's reference number: ALFGBG-723921, ALFGBG-722331, ALFGBG-965619

Ethics Review

Gothenburg - Ref. Dnr 563-02

Gothenburg - Ref. Dnr 233-10

Gothenburg - Ref. Dnr 988-14

Research area

[Cell biology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Immunology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Gastroenterology and hepatology](#) (Standard för svensk indelning av forskningsämnen 2011)

Keywords

[Gastrointestinal diseases](#), [Colonic diseases](#), [Colorectal neoplasms](#), [Ulcerative colitis](#), [Fecal supernatants](#), [Mrna sequencing](#), [Colon cancer](#)

Publications

Moraes Holst, L., Iribarren, C., Sapnara, M., Savolainen, O., Törnblom, H., Wettergren, Y., Strid, H., Simrén, M., Magnusson, M. K., & Öhman, L. (n.d.). Fecal Luminal Factors from Patients with Gastrointestinal Diseases Alter Gene Expression Profiles in Caco-2 Cells and Colonoids. In International Journal of Molecular Sciences (No. 15505; Vol. 23, Issue 24). <https://doi.org/10.3390/ijms232415505>

DOI: <https://doi.org/10.3390/ijms232415505>

SwePub: [oai:gup.ub.gu.se/323826](https://oai.gup.ub.gu.se/323826)

Iribarren, C., Nordlander, S., Sundin, J., Isaksson, S., Savolainen, O., Törnblom, H., Magnusson, M. K., Simrén, M., & Öhman, L. (n.d.). Fecal luminal factors from patients with irritable bowel syndrome induce distinct gene expression of colonoids. In Neurogastroenterology and Motility (Vol. 34, Issue 10). <https://doi.org/10.1111/nmo.14390>

DOI: <https://doi.org/10.1111/nmo.14390>

SwePub: [oai:gup.ub.gu.se/316392](https://oai.gup.ub.gu.se/316392)

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

Versions

Version 1. 2024-09-10

Contact for questions about the data

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Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CSL\)](#)

[File overview \(CSV\)](#)

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