

## Author Contributions

Jacob T. Barlow, Said R. Bogatyrev, and Rustem F. Ismagilov. 2020. "A quantitative sequencing framework for absolute abundance measurements of mucosal and lumenal microbial communities."

### Manuscript

JTB: validated limits of digital PCR assay with mock microbial communities in germ-free tissues; designed, performed, and analyzed experiments to validate accuracy of quantitative sequencing with dPCR anchoring; established the quantitative limits of an individual taxon's absolute abundance; conducted the ketogenic animal study; analyzed all data; created all figures; and wrote the paper.

SRB: co-developed the idea of quantitative sequencing with dPCR anchoring for absolute quantification of total microbial loads and taxa absolute abundances in lumenal and mucosal samples; contributed the method for quantitative sequencing with dPCR anchoring in lumenal and mucosal samples; contributed ideas and provided support for animal study design; contributed ideas for data analysis and representation.

RFI: contributed to study design and manuscript preparation.