

# Microbiome Digest – Bik's Picks

A daily digest of scientific microbiome papers, by your Microbe Manager Elisabeth Bik, laboratory of David Relman, Stanford University – Twitter: @microbiomedigest



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## March 17, 2016

Posted on [March 17, 2016](#) by [eliesbik](#)

Metagenomics of Necrotizing Enterocolitis, sinus irrigation, variation in mice in German facilities, and bacteria vs phage.

### Pregnancy and birth

[The maternal microbiota drives early postnatal innate immune development](#) – Mercedes Gomez de Agüero – Science

[Metagenomic Sequencing with Strain-Level Resolution Implicates Uropathogenic E. coli in Necrotizing Enterocolitis and Mortality in Preterm Infants](#) – Doyle V. Ward – Cell Reports

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## Human respiratory microbiome

Evaluation of bacterial transmission to the paranasal sinuses through sinus irrigation – Leah J. Hauser – International Forum of Allergy & Rhinology

## Human gut microbiome

Fecal Microbiota Transplantation in Children: A Brief Review – Suchitra K Hourigan – Pediatric Research

Forum: Oscillospira: a Central, Enigmatic Component of the Human Gut Microbiota – Tom Konikoff – Trends in Microbiology

Commentary: Recognizing that the microbiome is part of the human immune system will advance treatment of both cancer and infections – Richard L. Gallo – Journal of the American Academy of Dermatology

Review: Low calorie sweeteners and gut microbiota – Kristian Daly – Physiology & Behavior

## Animal models

Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal facilities – Philipp Rausch – International Journal of Medical Microbiology


## Plant, soil, and root microbiome


Plant versus microbial controls on soil aggregate stability in a seasonally dry ecosystem – Joseph C. Blankinship – Geoderma


Soil microbial communities following bush removal in a


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[Biodiversity gradients in obligate symbiotic organisms: exploring the diversity and traits of lichen propagules across the United States](#) – Erin A. Tripp – Journal of Biogeography

### Viruses and phages

[Classic Spotlight: Bacteria versus Phage—the Battle Rages!](#) – Tina M. Henkin – Journal of Bacteriology

### Techniques

[Review: Confocal Microscopy Imaging of the Biofilm Matrix](#) – Sebastian Schlafer – Journal of Microbiological Methods

### Metabolomics

[Optimization of Metabolomics of defined in vitro gut microbial ecosystems](#) – Dirk K. Wissenbach – International Journal of Medical Microbiology

[Review: Challenges of metabolomics in human gut microbiota research](#) – Kirill S. Smirnov – International Journal of Medical Microbiology

### Microbes in the News

[Subset of E. coli bacteria linked to deadly disease in pre-term infants](#) – Medical Xpress

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Meeting report: [Microbes in the City: Mapping the Urban Genome](#) – New York Academy of Sciences

[Viral Infections May Affect Cystic Fibrosis Patients' Respiratory Microbiome, Study Says](#) – Daniela Semedo – Lung Disease News

[Diverse diets enrich gut microbes](#) – Catharine Paddock – Medical News Today

[Mother's Microbiome Shapes Offspring's Immunity – The maternal gut microbiome guides neo- and postnatal immune system development, a mouse study shows](#) – Anna Azvolinsky – The Scientist

[How bacteria get their magnetic compass](#) – Robert Sanders – Berkeley News

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