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: @microbiodigest

March 17, 2016

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
**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


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
Namibian savanna – Jeffrey S. Buyer – Soil

Monitoring benthic microflora in river bed sediments: a case study in the Anllóns River (Spain) – Diego Martiñá Prieto – Journal of Soils and Sediments

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


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
Our gut microbiome is always changing; it’s also remarkably stable – Science Codex

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

Science, publishing, and career

Blogging for beginners – Andrew David Thaler – Science

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