



# Forthcoming FRBM SPECIAL ISSUE

## *The Gut Microbiome in Health and Disease*



This forthcoming special issue of *Free Radical Biology & Medicine* contains a selection of state-of-the-art articles written by top specialists, providing novel insights into the Gut Microbiome in Health and Disease.

### Guest Editors:

**Michael Graham Espey**, National Cancer Institute, Rockville, MD USA

**Phillip J. Daschner**, National Cancer Institute, Rockville, MD USA

**Matthew B. Grisham**, Texas Tech University Health Sciences Center, Lubbock, Texas USA

Expected Publication Date:  
1<sup>st</sup> quarter 2017

<http://ees.elsevier.com/frbm>

## List of confirmed review articles for this special issue:

- 1) **Microbiome-driven carcinogenesis in colorectal cancer: models and mechanisms**, by Mark M Huyke (Oklahoma City VA Health Care System, Oklahoma, USA)
- 2) **Regulation of the gut microbiome by inflammasomes**, by Grace Y Chen (University of Michigan, Ann Arbor, MI, USA)
- 3) **Gut microbiota modulate host immune cells in cancer development and growth**, by Susan Erdman (MIT, Cambridge, MA, USA)
- 4) **Polyamine- and NADPH-dependent generation of ROS during *Helicobacter pylori* infection: A blessing in disguise**, by Keith Wilson (Vanderbilt University, Nashville, TN, USA)
- 5) **Siderophore-mediated iron acquisition and modulation of host-bacterial interactions**, by Janelle Arthur (University of North Carolina, Chapel Hill, USA)
- 6) **Redox Signaling Mediated by the Gut Microbiota**, by Andrew S. Neish (Emory University, Atlanta, USA)
- 7) **Community metabolic modeling approaches to understanding the gut microbiome: bridging biochemistry and ecology**, by Nick Chia (Mayo Clinic, Rochester, MN, USA)
- 8) **The impact of metagenomic interplay on the mosquito redox homeostasis**, by Jiannong Xu (New Mexico State University, Las Cruces, NM, USA)
- 9) **Tissue Metabolism and Host-Microbial Interactions in the Intestinal Mucosa**, by Sean P. Colgan (University of Colorado, Aurora, CO, USA)
- 10) **Electrochemical Reverse Engineering: A Systems-Level Tool to Probe the Redox-Based Molecular Communication of Biology**, by Greg Payne (University of Maryland Biotechnology Institute, College Park, MD, USA)
- 11) **Enterosalivary nitrate metabolism and the microbiome: intersection of microbial metabolism, nitric oxide and diet in cardiac and pulmonary vascular health**, by Carl Koch (University of Pittsburgh, PA, USA)
- 12) **Oxygen as a driver of gut dysbiosis**, by Andreas Bäumler (University of California, Davis, USA)
- 13) **Modulation of the Gut Microbiota by Hydrogen Sulfide: Implications for Tissue Injury & Inflammation**, by John L. Wallace (University of Calgary, ON, Canada)

**This issue will be made promotional open access for the period of a year after publication. (Any featured open access papers will remain freely available after promotion has ended with remaining content only available to valid content subscribers).**