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**Newsletter #82**

May 26th, 2016



## Edito

Dear Friends,

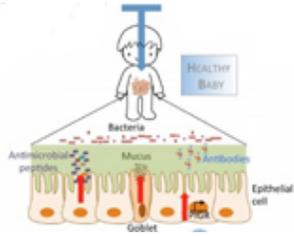
This week, we are pleased to bring you a newsletter packed with the newest research related to gut microbiota and health. We start with several articles related to immunity: one on an intriguing mechanism by which the mouse maternal microbiota shapes her offspring's immune system, another on the immune system's 'inflammatory loop' in human IBD, and another on how bacteria and viruses in the gut change with the development of severe immunodeficiency in HIV infection.

We follow these articles with coverage of recent reviews on these topics: gut microbiota and stroke outcome, how the gut microbiota influence metabolism of drugs and other xenobiotics, and why we should increase dietary fibre consumption as a way of supporting better gut microbiota composition and function.

Are you on Twitter? On a daily basis, our [@gmfx](#) Twitter account posts new scientific papers related to gut microbiota, while our [@gutmicrobiotaww](#) account posts articles that appear in the popular media. Check out these accounts to keep up with the latest in the field!

The GMFH publishing team

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## Mouse study shows maternal microbiota shapes offspring's immune system

A recent study, led by Prof. Andrew Macpherson from the University of Bern (Switzerland), has found in mice that maternal microbiota and immunity strengthen the immune system of the newborn. Although it is a...

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## Gut microbiota and the 'inflammatory loop' in IBD: Interview with Prof. Harry Sokol

Understandings of inflammatory bowel disease (IBD) have advanced in recent years, informed by studies that have investigated the role of the gut microbiota in disease pathogenesis and progression. Prof. Harry Sokol is a gastroenterologist and...

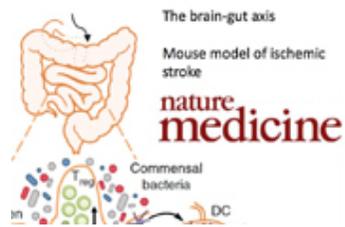
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## Severe immunodeficiency in HIV infection is linked to changes in the gut virome and bacterial microbiome

Human immunodeficiency virus (HIV) infection is a significant global health threat, with an estimated 35 million HIV-positive adults worldwide. HIV leads to the development of acquired immune deficiency syndrome (AIDS) by infecting and depleting CD4...

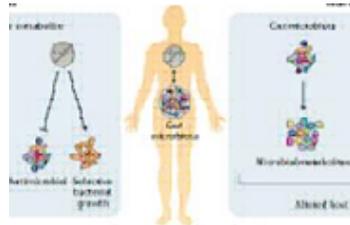
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## Could manipulation of gut microbiota affect stroke outcome?

Although it is well documented that gut microbiota may shape brain function and development, little is known about its impact on the outcome of acute brain injury. A recent study, led by Dr. Josef Anrather,...

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## The role of 'our second genome' in xenobiotic metabolism and therapeutic outcomes

Although the contribution of human genetic polymorphisms to the prevention and treatment of human disease has been widely investigated, the role of genes encoded by the microbiota in therapeutic outcomes remains underexplored. A recent review,...

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## Conserving and restoring the human gut microbiome by increasing consumption of dietary fibre

Modern lifestyle and Western diet have led to a substantial depletion of gut microbial diversity, which is linked to many non-communicable diseases (NCDs). In a recent commentary published in Trends in Endocrinology & Metabolism by...

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