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Newsletter #88

August 25th, 2016



Edito

Dear Friends,

As September nears, the team at GMFH looks forward to hearing about new projects, new collaborations, and new data in gut microbiota research. To kick off this newsletter, we feature an interview with Gregor Reid on an innovative ongoing project that aims to provide people in three African countries with the tools to make probiotic yogurt.

This newsletter also covers a range of developments in the field of gut microbiota, starting with an intriguing mouse study on how skin graft outcome is affected by donor and recipient gut microbiota composition. Turning to humans, we cover a study on how the short-chain fatty acid butyrate may be protective against type 1 diabetes, and another study showing altered gut microbiota composition and increased microbial translocation in myalgic encephalomyelitis/chronic fatigue syndrome. Finally, GMFH highlights new data on how gut microbiota might influence food reward responses and eating behaviour, as well as a summary of how probiotics affect gastrointestinal symptoms in individuals with irritable bowel syndrome.

The GMFH publishing team

Gregor Reid on the impact of a grassroots system of probiotic food production in Africa



Host and donor microbiota composition affects the rate of transplant acceptance in mice

It has been previously reported that clinical interventions on the gut microbiota constitute a new approach for preventing side effects of bone marrow transplant. Little is known regarding the role of environmental factors such as...

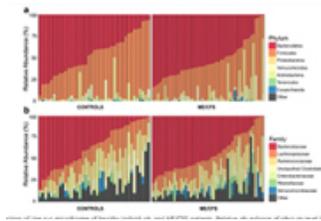
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Butyrate may have a protective effect in the development of type 1 diabetes

It has been previously reported that the gut microbiota could be involved in the pathogenesis of metabolic diseases such as diabetes. A recent study, led by Dr. Wolfgang zu Castell from the Scientific Computing Research...

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Is gut dysbiosis involved in myalgic encephalomyelitis/chronic fatigue syndrome?

Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) is a debilitating illness of unknown underlying mechanisms and without an accepted therapy. According to Fukuda diagnostic criteria, primary symptoms reported by patients are fatigue,

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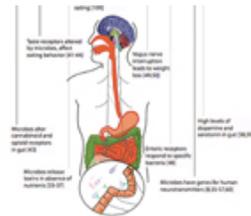
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Investigating potential mechanisms by which gut microbiota modulates eating behaviour

It has been previously hypothesized that gut microbes could control a host's eating behaviour through several potential mechanisms, including microbial manipulation of reward pathways, production of toxins that alter mood, changes to receptors (including taste...

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Effectiveness of probiotics in those with IBS

Irritable bowel syndrome (IBS) is one of the most common functional gastrointestinal disorders, affecting more than 10% of the population, with the highest impact in women. Although its origin is still unknown, reduced gut microbial...

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