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**Newsletter #96**

December 22th, 2016



## Edito

Dear Friends,

We are pleased to announce the release of the preliminary program for the Gut Microbiota for Health World Summit 2017! This year's summit, to be held in Paris on March 11th and 12th, emphasizes the synergies between gut microbiota research endeavours all around the world, and the collaborations that yield exceptional results. Check out the topics list for details.

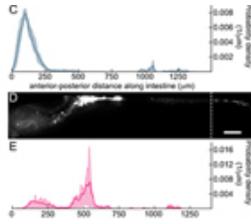
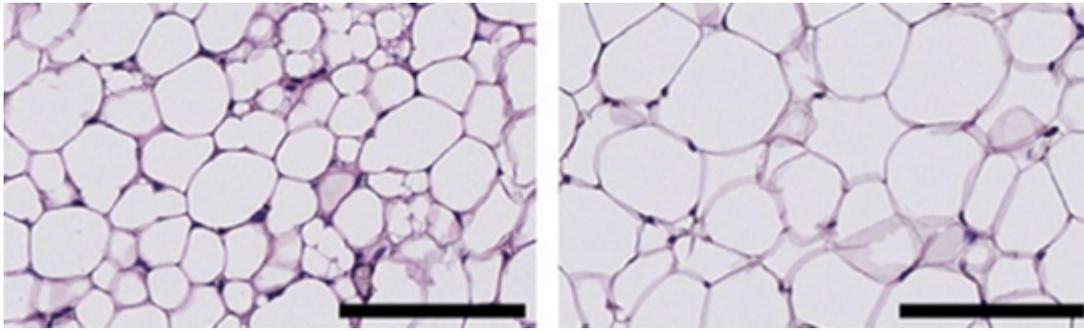
In this newsletter, we bring you our exclusive interview with Patrice D. Cani on his recent work with Willem de Vos showing that a pasteurized version of *Akkermansia muciniphila* improved metabolic health in mice via a protein isolated from the bacterium's outer membrane. Even more strikingly, the researchers reported the first human safety testing of *A. muciniphila* as a next-generation probiotic for reducing body weight and improving metabolic health.

This interview is followed by an article on host and bacterial factors shaping gut microbial populations. We also give you a backgrounder on the emerging role of gut microbiota in Parkinson's disease, a human study on how sleep loss affects the gut microbiota, and an analysis that found new correlations between oral bacteria and migraines. We close with a guest post from UCLA postdoc Melissa Agnello on the potential of targeted antimicrobials in the oral microbiome.

The GMFH publishing team



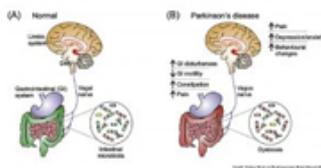
**New insights into how *Akkermansia muciniphila* improves metabolic health, leading to first human safety trial**



## Gut bacterial populations can be shaped by competing species as well as gut motility

Measuring bacterial composition is relatively straightforward with currently available tools, but scientists so far understand little about the factors contributing to successful colonization and a stable microbiota composition at any point in time. Researchers from the...

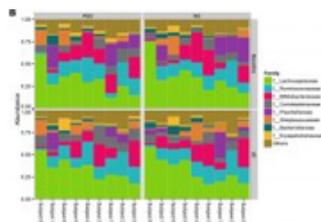
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## New insights into the role of gut microbiota in Parkinson's disease

Recent research has given important insights into the role of gut microbiota alterations in Parkinson's disease (PD). Although motor deficits (including tremor, bradykinesia and rigidity) are the cardinal symptoms of PD, non-motor symptoms (NMS) (constipation,...

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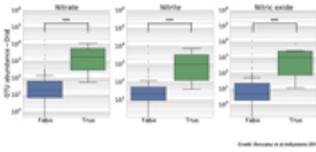


## Sleep loss may impact the gut microbiota in healthy, young normal-weight individuals

In both mice and humans the gut microbiota exhibits a circadian rhythm and it may be perturbed following circadian misalignment. Previous research has found that the circadian clock of the host may elicit responses from...

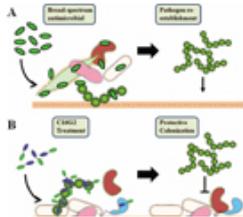
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## Connections revealed between diet, gut microbiome and migraines



It has been reported that nitrate-containing compounds found in certain foods—typically, processed meats, leafy vegetables, chocolate and some wines—as well as food preservatives and nitrate-containing drugs may trigger migraines as a side effect, but the...

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## Targeted antimicrobials in the oral microbiome

Recently, there has been a huge change in the perception of microbial diseases and a shift in the understanding of how to treat them. It is now recognized that there are few disorders that can...

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