

If this email does not display correctly, click [here](#)



**Newsletter #92**

October 27th, 2016



## Edito

Dear Friends,

In this newsletter, GMFH editors bring you a report from the front lines of another microbiota conference -- the Harvard Probiotics Symposium. This event, which brought together a lineup of thought leaders in the field of gut microbiota, covered both metabolic health (day one) and the gut-brain axis (day two). Below you can read our two-part summary of "hot topics" covered at the event.

A number of articles in this newsletter cover investigations of the pathophysiological role of the gut microbiota in various diseases: one on gut microbial composition and diversity in Alzheimer's disease; another on the early life microbiome and asthma; and another on how gut bacteria from individuals with celiac disease influences gluten digestion and immunogenicity.

When it comes to gut-microbiota-based interventions, several therapeutic approaches have recently shown promise for lactose intolerance. Below we cover an article showing the probiotic *L. acidophilus* may relieve symptoms in this condition. And finally, we share with you an article exploring gut microbiota differences between lab mice as a reason why certain preclinical experiments are notoriously difficult to replicate.

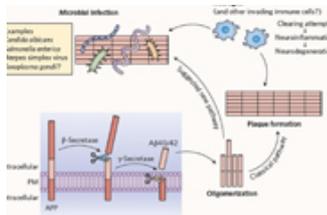
The GMFH publishing team

---

## Hot topics addressed at the 2016 Harvard Probiotics Symposium\_DAY 1



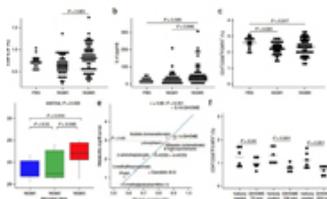
## Hot topics addressed at the 2016 Harvard Probiotics Symposium\_DAY 2



### Hints that composition and diversity of gut bacteria could impact progression of Alzheimer's disease

Alzheimer's disease (AD) is the most common form of incurable dementia. On a cellular level, AD is characterized by the accumulation of extracellular aggregates of the amyloid- $\beta$  peptide or Ab plaques (named amyloidosis) and intracellular...

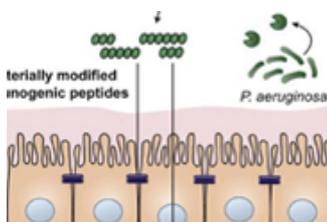
Share: [f](#) [t](#) [g+](#) [in](#) [✉](#)



### Are clues about childhood asthma and heightened immune responses found in a baby's gut microbiome?

It is well known that gut microbiota in early life is linked to several immune-related diseases. It has been previously reported that during the first 100 days of life there is a window where microbe-based...

Share: [f](#) [t](#) [g+](#) [in](#) [✉](#)



### Bacteria from celiac patients influence gluten's digestion and its ability to provoke an immune response

Celiac disease is an autoimmune condition involving an immune reaction that is triggered by dietary gluten, found in wheat, barley and rye. Partially digested gluten peptides can trigger symptoms in genetically susceptible individuals, expressing HLA-DQ2...

Share: [f](#) [t](#) [g+](#) [in](#) [✉](#)

**Table 6** Linear mixed model of active vs. placebo at Week 4

	Time point	n	Mean
Diarrhea	Active	147	1.34
	Placebo	147	1.69
Abdominal cramping	Active	147	1.94
	Placebo	147	2.39
Vomiting	Active	147	.08
	Placebo	147	.36
Audible bowel sounds	Active	147	2.76
	Placebo	147	2.86
Flatulence	Active	148	3.16
	Placebo	148	3.21
Overall	Active	147	9.28

## A specific strain of *Lactobacillus acidophilus* may relieve symptoms of lactose intolerance

Lactose intolerance is a form of lactose maldigestion where individuals experience symptoms such as diarrhoea, abdominal cramping, flatulence, vomiting, and bowel sounds following lactose consumption. An estimated 30% of the population from the United States...

Share: [f](#) [t](#) [g+](#) [in](#) [✉](#)



## An invisible variable that may explain why findings in preclinical experiments are difficult to replicate

The mouse is one of the most commonly used experimental animals in gut microbiota mechanistic studies. A recent report published by Kelly Servick, a science journalist and staff writer at Science, proposes that laboratory mouse...

Share: [f](#) [t](#) [g+](#) [in](#) [✉](#)

©2016 Gut Microbiota For Health

If you need further information send us an email to [contact@gutmicrobiotaforhealth.com](mailto:contact@gutmicrobiotaforhealth.com)

You have received this e-mail because you have shown an interest in receiving news from us.

If you don't want to continue receiving information from us, please [unsubscribe](#)

[www.gutmicrobiotaforhealth.com](http://www.gutmicrobiotaforhealth.com) is edited by



[Unsubscribe from this list](#) [Update subscription preferences](#)

Before print this message, please check that it is really necessary