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The Gut Microbiota For Health Newsletter #62

July 23, 2015

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Edito

Dear Friends,

If you didn't attend the recent International Congress of Translational Research in Human Nutrition in France, we've got you covered! In this newsletter, contributor Amandine Everard of Belgium reports on talks by Philippe Sansonetti, Gary Wu, Colleen Kelly, Paul O'Toole, Joël Doré, and more.

In this issue we are pleased to bring you an exclusive interview with Catherine Lozupone, which may make you re-examine your understanding of how diet modulates gut microbiota. In another Gut Microbiota for Health exclusive, Bernd Schnabl describes how gut microbiota can be incorporated into the longstanding "leaky gut hypothesis" of liver disease.

Here we also highlight two selections related to inflammatory bowel disease (IBD): one on the identification of anti-inflammatory molecules that could someday be used in treatments for Crohn's disease, and another on how tumor necrosis factor might influence the gut microbiota in IBD.

We'll catch up with you in August, bringing you perspectives on how gut microbiota science is helping advance treatments for inflammatory bowel disease.

The GMFH publishing team

#ICTRHN2015 Report

The Third International Congress of Translational Research in Human Nutrition (#ICTRHN2015) took place in Clermont-Ferrand, France, on June 26 & 27, 2015.

Speaker Amandine Everard from Université catholique de Louvain, Belgium, reports on the event for Gut Microbiota for Health.

The first post brings the highlights of the event introduction on microbiota-host crosstalk and of the first two symposia: new approaches in microbiota characterization, and gut inflammation.

The second post brings an overview of the next three symposia: clinical implication of gut microbiota knowledge, microbiota and non-intestinal diseases, and microbiota and intestinal integrity.

#ICTRHN2015 Report Part One: From microbiota-host crosstalk to gut inflammation
#ICTRHN2015 Report Part Two: From gut microbiota science to clinical implications

Written by A. Everard

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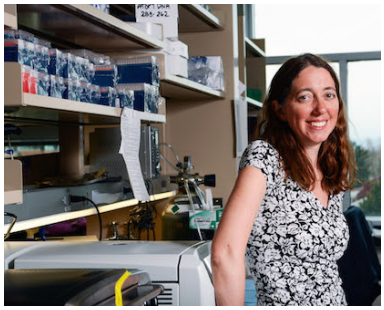
Host may be proactive in dietary modulation of gut microbiota, says Catherine Lozupone



For Catherine Lozupone, formerly a researcher in the Knight and Gordon labs and now faculty at the University of Colorado, characterizing a 'healthy microbiota' or even a 'healthy diet' is far from straightforward.

At Experimental Biology 2015 in March, Lozupone presented her research and brought forward a provocative idea: a healthy microbiota is one that matches your diet. She spoke with Gut Microbiota for Health after the conference to explain more.

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Written by K. Campbell

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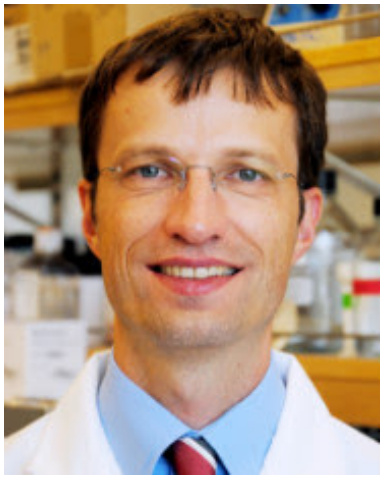
Bernd Schnabl, on incorporating intestinal microbiota into the leaky gut hypothesis of liver disease



Bernd Schnabl, MD, is a practicing physician and associate professor at University of California San Diego. His research focuses on the cellular and molecular mechanisms that contribute to chronic liver disease.

In a recent review called "The Gut Microbiota and Liver Disease", Schnabl and Llorente describe the latest ideas on how the intestinal microbiota contribute to liver disease. Evidence from Schnabl's lab and others suggests that products generated from metabolic activities of the microbes, as well as interactions between microbes and host, influence disease susceptibility.

Dr. Schnabl spoke with Gut Microbiota for Health editors about this topic.

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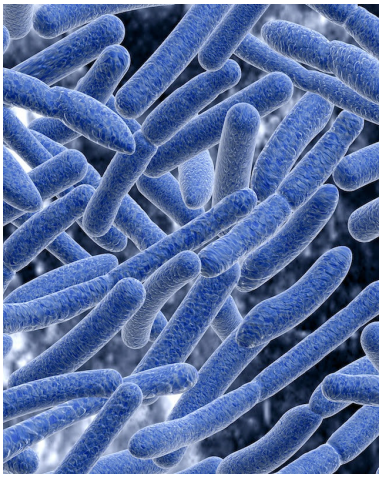
Written by K. Campbell

F. prausnitzii and Crohn's disease: New anti-inflammatory molecules identified



Faecalibacterium prausnitzii is known for exhibiting anti-inflammatory effects in vitro and in vivo by secreted metabolites that block nuclear factor (NF)-κB activation. The low proportion of *F. prausnitzii* in the microbiome of Crohn's disease patients characterizes the microbial dysbiosis associated with that condition.

In a recent paper published in Gut, a team from the Gastroenterology & Nutrition Department from Saint-Antoine Hospital in Paris showed that *F. prausnitzii* produces anti-inflammatory bioactive peptides derived from a single 15 kDa protein named microbial anti-inflammatory molecule (MAM).

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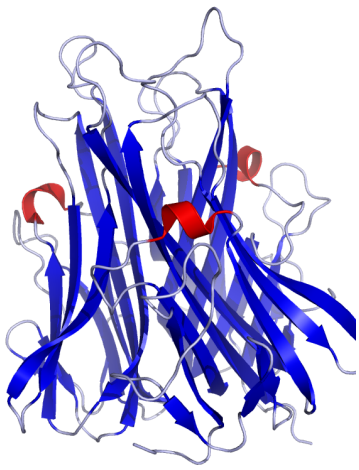
Written by PY. Arnoux

A better understanding of the impact of TNF on the gut microbiota in IBD



Yava L. Jones-Hall, Ariangela Kozik and Cindy Nakatsu from Purdue University, West Lafayette, Indiana, USA, have recently published a paper in PLoS ONE on the role of Tumor Necrosis Factor (TNF) in Inflammatory Bowel Disease (IBD) and the impact of this pro-inflammatory cytokine on the gut microbiota.

The data presented in this paper show that TNF contributes to the local inflammation and to the microbial alterations in IBD. Moreover, this study shows how inflammation and TNF production are associated with significant differences in the microbiota.

Read more

Written by PY. Arnoux

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