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## The Gut Microbiota For Health Newsletter #24

### February 6, 2014

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### Edito

Dear Friends,

In this week's edition of the newsletter, we have selected a broad variety of subjects covered by gut microbiota research. Indeed topics range from gut-brain axis or gut microbiota and cancer, to fecal transplantation and prebiotic effect.

We wish to put forward an interview we conducted with Dr Filipe de Vadder, the first author of a recent study published in Cell "microbiota-generated metabolites promote metabolic benefits via gut-brain neural circuits". He accepted to answer a few questions and explain how the study shows that gut microbiota fermentation product could impact neural communication.

As we are getting closer to the 2014 Gut Microbiota for Health Summit, we have posted a reminiscent set of interviews of speakers recorded during last year Summit in Madrid. In those video interviews the expert express their views regarding the many challenges of research in the field of gut microbiota.

We have also published an interesting video, in which Dr Kunde gives guidance for preparing an investigational new drug application for fecal microbiota transplantation studies.

Finally we would like to let you know that the 9th edition of the congress of the European Crohn's & Colitis Organisation will be dedicated to inflammatory bowel diseases (IBD), and among other topics, several recent papers exploring the role of gut microbiota in IBDs will be presented. The event will take place on February 20-22 in Copenhagen, Denmark. We have put all needed references on our website and invite you to check it.

Visit [gutmicrobiotaforhealth.com](http://gutmicrobiotaforhealth.com) and share your thoughts, comments and references with us.

Written by Y. WINOGRADSKY

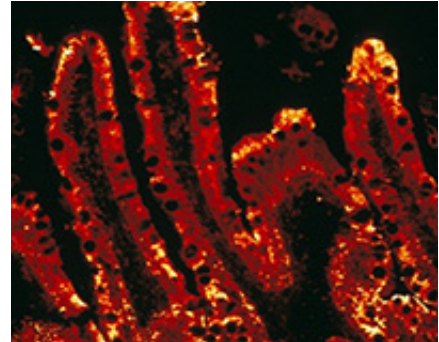
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## Deciphering benefits of microbial fermentation via the gut brain axis

Filipe De Vadder is a molecular biologist in Gilles Mithieux group and published recently an important article in *Cell* journal which illustrate how gut microbiota fermentation product could impact neural communication. He accepted for GMFH to give us some highlights.

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Written by J. TAP



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## From a GMFH Summit to the next one

Almost a year ago, we were at the Gut Microbiota for Health Summit in Madrid (March 2013). The event gathered many lead experts across gut microbiota-related topics.

We then made interviews with some of the speakers and decided to pull their answers together to get an overview on the field. We are excited with the upcoming edition of the Gut Microbiota for Health Summit that will take place next March in Miami and look forward to even richer content to share with you!

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Written by Y. WINOGRADSKY



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## Guidance on preparing an investigational new drug application for fecal microbiota transplantation studies

[Watch the video on Youtube](#)

Dr. Sachin S, Kunde discusses his manuscript "Guidance on preparing an investigational new drug application for fecal microbiota transplantation studies".

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Selected by Y. WINOGRADSKY



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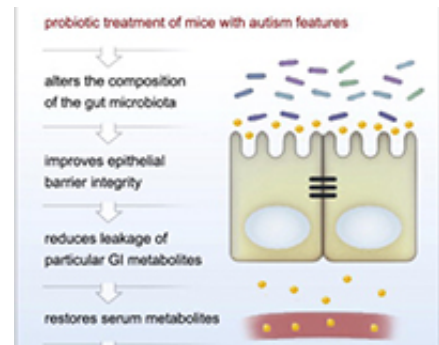
## Microbiota modulate behavioral and physiological abnormalities associated with neurodevelopmental disorders

Seen on [Cell](#)

Neurodevelopmental disorders, including autism spectrum disorder (ASD), are defined by core behavioral impairments; however, subsets of individuals display a spectrum of gastrointestinal (GI) abnormalities. We demonstrate GI barrier defects and microbiota alterations in the maternal immune activation (MIA) mouse model that is known to display features of ASD.

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Selected by Y. WINOGRADSKY



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## Gut microbiota: the good, the bad, and the ugly

Seen on [Personalized Lifestyle Medicine Institute](#)

In this video Dr. Jeffrey Bland discusses recent research into the gut microbiome. This research illustrates the systemic effects of intestinal composition on drug response, and inflammatory and immune response. Some of the research cited includes work done by the Cleveland Clinic showing certain gut microbiota may convert animal products consumed in the diet into secondary metabolites that are possibly heart-disease inducing (“the Bad”). However, research out of Europe appears to demonstrate particular gut flora may enhance the effects of chemotherapy drugs, improving efficacy (the “Good”).

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Selected by Y. WINOGRADSKY



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## Cancer therapies use a little help from microbial friends

Seen on [Science magazine](#)

Outnumbering our own cells more than 10 to one, the microbes thriving peacefully in the human body help keep us healthy. New research shows they also aid in the treatment of cancer. The two studies find in mice that gut bacteria bolster the effects of three antitumor regimens by priming the immune system. In each case, when a mouse's microbial residents are missing—as when antibiotics are given—the treatments are far less effective. Investigators warn against applying the mice findings to people, but already one of the researchers is being more cautious about prescribing antibiotics for her cancer patients.



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## Clasado and University of Oxford demonstrate effect of prebiotics on brain and gut in pre-clinical study

Seen on [MNT](#)

Clasado, the manufacturers and suppliers of the second generation prebiotic Bimuno®, and The Department of Psychiatry, University of Oxford, have announced the results of pre-clinical research demonstrating prebiotics affect the relationship between the gut and the brain. This collaborative research will complement and serve as a precursor to current human trials.

250 Million Infected in U.S.



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Selected by Y. WINOGRADSKY



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## [Save the date] The 9th congress of the ECCO - February 20-22, 2014, Copenhagen, DK

The European Crohn's & Colitis Organisation is inviting you to an event dedicated to Inflammatory Bowel Diseases. The congress will take place from February 20th to 22nd, 2014 in Copenhagen, Denmark. You can check their website for more information, including the program and the sessions of the event.



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Selected by Y. WINOGRADSKY

