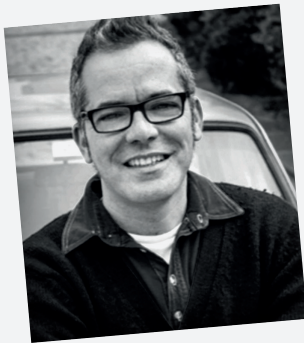




# VISION 2020 - A PERSONAL PERSPECTIVE A TRILLION MICROBES & ME

Thursday, July 16, 2015, 17:00h  
Lecture Hall Y03 G91  
University of Zurich, Irchel Campus  
Miguel Soares  
Instituto Gulbenkian de Ciência  
Oeiras, Portugal



## Gut Microbiota Confers Protection Against Malaria

Malaria is caused by infection with *Plasmodium* spp. which present galactose- $\alpha$ -1,3-galactose ( $\alpha$ -gal). *E. coli* O86:B7 also presents  $\alpha$ -gal in the gut. Humans lack  $\alpha$ -1,3-galactosyltransferase and produce  $\alpha$ -gal antibodies. Therefore, we colonised  $\alpha$ -1,3-galactosyltransferase deficient mice with *E. coli* O86:B7 which protected them against malaria transmission due to circulating  $\alpha$ -gal antibodies.

The presentation is followed by an aperitif and - for a limited number of students - by a dinner with the speaker. For the dinner, contact [marek.whitehead@uzh.ch](mailto:marek.whitehead@uzh.ch) not later than July 13, 2015 by explaining why you would like to meet the speaker.

### Organization

This event series is organized by a committee of PhD students of the PhD Program in Integrative Molecular Medicine (imMed), UZH:  
Institute of Physiology: Julia Jando (chair) | Marek Whitehead  
Center for Molecular Cardiology, USZ/UZH: Tasneem Arsiwala  
Division of Gastroenterology and Hepatology, USZ: Stephanie Kasper  
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