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Global Health Institute RECRUITING SEMINAR

*From gut flora to microbiome:
in this 'omics' world, culturing is not so bad
after all!*

Monday, August 31st, 2015 – 13h30
EPFL – room SV1717a

Thomas Clavel

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Host: Prof. Stewart Cole

Abstract:

Human body microbiomes have major impact on health. Research in microbial ecology and microbe-host interactions has been blooming over the last decade, and we are now entering a new era with novel challenges. A pan-view of microbiomes is needed based on the analysis of large and well-phenotyped and -genotyped study populations, and molecular approaches must become integrative and not restricted to in-house generated datasets. Most of all, there is urgent need to go back to classical bacteriological techniques to bring light on novel diversity and to study molecular mechanisms and the functional relevance of specific microbes. In my talk, I will address these issues by presenting novel resources for the study of bacterial diversity and giving examples of the use of complex communities and single bacteria for functional study of microbe-host interactions in inflammatory and metabolic diseases.