

BIG seminar

Biology and integrative genetics

Monday,
December 6
17h

Auditorium Bâtiment Biophore
Unil-Sorge at Dorigny

Wold-Dietrich Hardt
ETH-ZH



“*Salmonella* diarrhea: triggering disease in order to invade the ecosystem?”

Salmonella Typhimurium is a well-known cause of diarrhea. For a long time, the virulence factors eliciting disease have been studied in vitro and host cell manipulation by this pathogen is quite well understood. However, these in vitro studies could not answer how this pathogen triggers disease in the host's intestine and how it might benefit from this. To address these central questions of *Salmonella* biology, we have developed the “streptomycin mouse model”. This has allowed identifying virulence factors of the pathogen and elements of the host's defense which contribute to disease. I will discuss recent data on the importance of triggering gut inflammation for invading the intestinal ecosystem and a novel experimental approach for analyzing pathogen invasion into the gut tissue.

BIG is an initiative of the Faculty of Biology and Medicine, University of Lausanne, and is organized by Uta Paszkowski, Laurent Keller, Henrik Kaessmann and Jan Roelof van der Meer.

Info: www3.unil.ch/fbmens/reve/evenement_bigseminar_public.php contact: uta.paszkowski@unil.ch, janroelof.vandermeer@unil.ch