

Friend and Foe: The intestinal microbiota and the host's immune system.

Dr. Till Strowig

Abstract:

The intestinal microbiota contributes to many aspects of the host's physiology, yet the identity of many of the key members responsible for the effects on the host are not known. In the past years we have used mouse models to explore the influence of distinct microbial consortia and candidate bacteria on the susceptibility to enteric infections and gastrointestinal inflammation. To this end, we are applying an interdisciplinary combination of sequencing-driven, microbiological and immunological approaches, which has allowed us to gain novel insights into the complex interplay between the microbiota and the host's mucosal immune system.