



Decoding Host and Microbial Communications in Infection and Vaccination

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Message from the Guest Editors

Dear Colleagues,

Understanding host-microbial interactions remains a critical paradigm in health and disease. In physiological conditions, the mucosal immune system maintains an environment tolerogenic towards commensal microbes while monitoring for the presence of pathogens. Likewise, commensal microbes communicate with the host for mutual advantages while competing against pathogen colonization. The challenges that follow infection and vaccination intersect and modulate this dialogue between the host and microbes, but how this can be traced down to metabolic pathways and metabolites has remained poorly investigated. In this Special Issue of *Vaccines*, we would like to dissect host and microbial metabolism in infection and vaccination to identify the molecular pathways that maintain and/or promote mucosal homeostasis, potentially being able to serve as biomarkers for predicting the outcomes of infection and vaccination.

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