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## Global Health Institute RECRUITING SEMINAR

# *Immune regulation of host- microbial interactions in the gut*

**Monday, April 28th, 2014 – 13:30**  
**EPFL – room SV1717a**

**Shipra Vaishnava, PhD**

University of Texas Southwestern Medical Center

*host: Prof. Stewart Cole*

**Abstract:**

Nearly 100 million bacteria reside in our gut, yet, we rarely elicit a harmful immune and inflammatory response against them. How is such a peaceful coexistence achieved? My interest is in studying the interactions between microbes and the host at the molecular level that ensures host-microbe mutualism. In my post-doctoral work I unveiled a key mechanism by which intestinal epithelial cells maintain homeostasis with bacteria by regulating host bacterial contact with the mucosal surfaces. My future research focus is to study how commensal bacteria and diet derived signals regulate mucosal immunity in the gut.