

CCR – IMPROMPTU

Thursday, July 2nd 2026, 10:00 AM

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B cell responses to microbiota

The intestinal immune system is constantly exposed to a plethora of different dietary and microbial antigens. Innate and adaptive immunity including B cell responses, control our microbiota to establish host-microbial mutualism. Immunoglobulin A is the major antibody isotype at mucosal surfaces, which confers protection against pathogens and constrains our microbiota toward commensal-like behaviour. However, few functional targets of IgA are known to date. Using gnotobiotic wild-type and transgenic mouse models and human samples paired with single B cell receptor repertoire analysis and monoclonal antibody reactivity testing, we define the intestinal IgA response to dietary and microbial antigens. The data provide insight into mechanisms of intestinal B cell clonal selection and may explain how antibodies control a diverse set of intestinal bacteria.

Venue: Lecture Hall B2, Borschkegasse 4a

Time: July 2nd, 2026, 10:00 AM

Host: Thomas Vogl



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