



**Center for Extracellular  
Vesicle Research (EVR)**  
University of Bern / Inselspital

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## **EVR Seminar Series**

**Guest Speaker:**

**Prof. Claudia Günther**



Prof. Claudia Günther from the University Hospital Erlangen investigates the mechanisms and dysregulation of inter-organ communication and how these processes are shaped by the microbiome. Her research centers on the molecular pathways that govern immune-mediated inflammation, tissue regeneration, and disease progression in systemic disorders.

**Title:** The microbiome's secret handshake: How bacterial EVs hijack immunity.

**Date:** Thursday, 30.10.2025, 11:00 - 12:00

**Location:** Microscopy Hörsaal, Pathology, Murtenstr. 31, H431

**Zoom:** <https://unibe-ch.zoom.us/j/69041897001?pwd=hYJVMKdSvj2s1ZL27h8RLbjOnkCVCG.1>

**Abstract:** A growing challenge in biomedical research lies in the recognition that organs cannot be studied in isolation. Instead, they are interconnected through complex signaling networks mediated by metabolites, cytokines, extracellular vesicles (EVs), and microbial products. These interactions critically influence not only the development and function of individual organs but also the onset and course of multifactorial diseases. Prof. Günther will highlight how the fecal soluble fraction – including bacterial extracellular vesicles and metabolites – orchestrates maladaptive immune responses along the gut–liver–brain axis. She will present recent findings from translational studies in preclinical models and patient-derived systems, underscoring how microbial signals reprogram immunity and thereby drive systemic inflammation.