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## **Cellular Microbiology of Veterinary Bacterial Pathogens**

Seminar (1 SWS) (min. 5, max. 30 Teiln.),  
2. Semesterhälfte, Fr. 14:15 – 15:45 n. V.  
– Mitte Philipstr. 13, Haus 4  
(Ostertaghaus), Institut für Mikrobiologie und Tierseuchen.

The lecture series covers basic aspects of the host immune system, including general differences between animals and humans (in particular intestinal immune system - GALT), as well as aspects of general cell biology which play a role in the pathogenesis of certain bacterial pathogens important in veterinary microbiology and zoonotic infections (Salmonella, Yersinia, Mycobacteria, Brucella and E.coli/Shigella). The course is intended to provide a basic introduction to host-pathogen interactions using examples of normal cellular and immunological processes which are used, circumvented or manipulated by bacterial pathogens. In addition to the selected bacterial pathogens and their virulence mechanisms, relevant topics such as antigen presentation, extracellular matrix, phagocytosis and host defense mechanisms are presented.

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