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Molecular epidemiology of bacterial pathogens, Seminar

(1 SWS) (min. 5, max. 30 Teiln.), 2.

Semesterhälfte, Do. 16:00 – 17:30, – Mitte

Philippstr. 13, Haus 4 (Ostertaghaus),

Institut für Mikrobiologie und Tierseuchen (9.12.)

Lothar H. **Wieler**, Christina **Ewers**, Antina **Lübke-Becker**

This lecture covers topics of molecular epidemiology and microevolution of bacterial pathogens. The focus is on Gram-negative *E. coli*, *Pasteurella*, *Mannheimia* and *Salmonella* as well as Gram-positive *Staphylococci* and *Erysipelothrix rhusiopathiae*. After introducing the pathogens and the diseases they are causing in veterinary and medical microbiology, typing methods appropriate for the respective pathogens will be introduced and how these methods can be used in outbreak investigations as well as in long term global epidemiology. The goal is to give the students and idea of the basic hypothesis, that different types of the respective pathogens display different habitat/host specificities and thus disease progression.

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