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Speaker's Abstract

Spots, Specks and Stretching: Inflammasome Regulation of *Salmonella* Infection

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The macrophage response to bacterial infection is complex often involving bacterial killing, inflammation and, ultimately, cell death. The integration of these cellular defence processes requires a number of different Pattern Recognition Receptors (PRRs) both on the cell surface and within cells that detect the pathogen and stimulate host signalling pathways.

Using infection of macrophages with *Salmonella enterica* serovar Typhimurium as a model we use multidisciplinary approaches to determine how PRRs in living cells signal in response to bacteria and bacterial ligands and what the contribution of each receptor is to host defence.

This talk will focus on visualisation of different PRR signalling complexes, how single cells signal in response to infection and what the consequences are for the host response in vivo.

More about the Hohenheimer SchlossGeister Lecture Series:

https://health.uni-hohenheim.de/en/schlossgeister_model-organisms-and-systems