Strategies for Cytosolic Detection of Intracellular Bacterial Pathogens

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To protect us from infection, the innate immune system must be able to discriminate harmful pathogens from self cells or harmless commensal bacteria. In my seminar I will describe some of the strategies and underlying molecular mechanisms by which the innate immune system detects intracellular bacterial pathogens. In particular, I will focus on how the immune system detects the virulence factors specific to pathogens, and my lab’s recent work on multi-protein complexes called inflammasomes will be discussed.

If you would like to visit with Dr. Russell Vance, please contact Steph Shames at sshames@ksu.edu. Dr. Vance’s visit is sponsored by KAWSE (K-State office for the Advancement of Women in Science and Engineering) through the ADVANCE Distinguished Lecture Series.