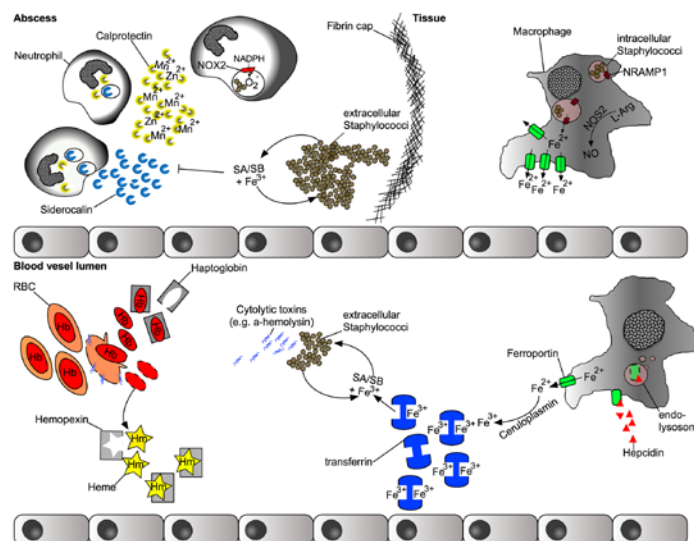




# Nutrient limitation at the interface between *Staphylococcus aureus* and host



The outcome of a host-pathogen interaction is heavily influenced by host defense mechanisms, but one of which is the sequestration of essential nutrients from the pathogen. This presentation will provide a brief overview of 'nutritional immunity' as it relates to withholding of iron, an essential transition metal. I will also discuss my laboratory's research on how *Staphylococcus aureus* overcomes these host defense mechanisms. Finally, I will present our most recent work focused on how acquisition of branched chain amino acids influences the pathogenesis of *S. aureus* infection.

**Dr. David E. Heinrichs**

Professor  
Department of Microbiology and Immunology  
University of Western Ontario

Host: Dr. Alan Davidson

**Date:** Thursday December 11<sup>th</sup>, 2014  
**Time:** 3PM  
**Place:** Medical Sciences Building,  
1 King's College Circle, Room 4279