

### Modeling *Bacillus anthracis* infection *in vitro*

In this talk, we consider the interaction between macrophages and anthrax spores *in vitro*. We present a model of spore phagocytosis by macrophages, germination of spores in and outside of the cells, and killing of macrophages by the cells. In addition, we aim to model the effects of lethal toxin produced by germinated bacteria on both cell death and cytokine repression.