

1116-VM-1951 **Megan O Powell*** (mpowell@stfrancis.edu), 500 Wilcox St., Joliet, IL 60435. *Modeling in vitro studies of anthrax spore and macrophage interactions.* Preliminary report.

In vitro studies of the interaction between anthrax spores and macrophages yield varying results due to differences in uses of spore strains, macrophage cell lines, medium, as well as lab protocol. While *in vitro* studies often give definitive numerical results that help determine phagocytosis, germination, and spore killing rates, we must consider how well these results translate *in vivo*. We will offer models of *in vitro* studies and discuss relevant factors when trying to estimate parameters for *in vivo* models. (Received September 21, 2015)