

## **Dissection of the Host Cytosolic Surveillance Pathway Using a Microarray Approach**

<sup>1</sup>Chuck Lemken and <sup>2</sup>Paul Fawcett

<sup>1</sup>Dept. of Biology, Lafayette College

<sup>2</sup>Dept. of Internal Medicine, Virginia Commonwealth University

Previous work has shown that *Listeria monocytogenes* is capable of activating two independent cell signaling pathways. Both pathways are mediated, at least in part by Toll like receptor 4 (TLR4). The canonical, or MyD88 dependent, pathway requires the adapter molecule MyD88 and is well studied. However, the recently described MyD88 independent pathway is more poorly characterized. Current work involves the characterization of the MyD88 independent pathway from receptor, TLR4, to activation of NF- $\kappa$ B.