Exploring the Role of BAR Domain Proteins in *Shigella* Invasion

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**Why BAR Domains?**
- BAR domain containing proteins are often implicated in membrane remodeling, a process that is hijacked by *Shigella* during invasion
- Before my arrival, 66 BAR domain proteins were screened and interesting candidates were flagged

**ICA1L is Recruited During *Shigella* Invasion**

**Figure 2:** ICA1L (shown in green) is recruited during *Shigella* invasion and colocalizes with actin, galectin-3, and rab35 (shown in red, clockwise from upper left).

**OPHN1 is Recruited During *Shigella* Invasion**

**Figure 3:** ICA1L (shown in green) is recruited during *Shigella* invasion and colocalizes with actin, galectin-3, and rab35 (shown in red, clockwise from upper left).

**Perspectives**
- Now that a link between *Shigella* invasion and recruitment of BAR domain proteins has been established, understanding the mechanisms of recruitment is important
- Future experiments in the lab will focus on understanding why and how these proteins are recruited during invasion

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**References**