

# Potential Master 2b / Master thesis projects

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Influence of *Wolbachia* infection on ant behavior and longevity:  
*Is the infection manipulative and costly?*

Changes in gut microbiome with **immune challenge**  
*Does an upregulation of the immune system reduce bacterial communities in the gut?*

Colony specificity of **cuticular hydrocarbons** of ant larvae  
*Ants prefer their own larvae: How do they recognize them?*

**Gene regulation and behavior:** The role of histone acetylation and DNA methylation in behavioral shifts

Transcriptome analyses of the hemolymph of cestode infected / non infected workers:

*Which manipulative proteins are released in the host?*

