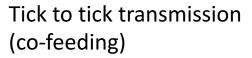
Antagonism/competition:

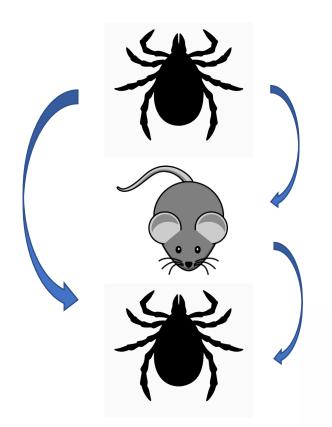
Conflict of co-infecting genotypes for location

Resource competition/nutrients

Cross-immunity







Sequential or simultaneous infection

Co-operation/synergy:

Immune modulation
Immune suppression
Shared siderophores
Genetic exchange

Tick to host transmission

Vertebrate to tick transmission

