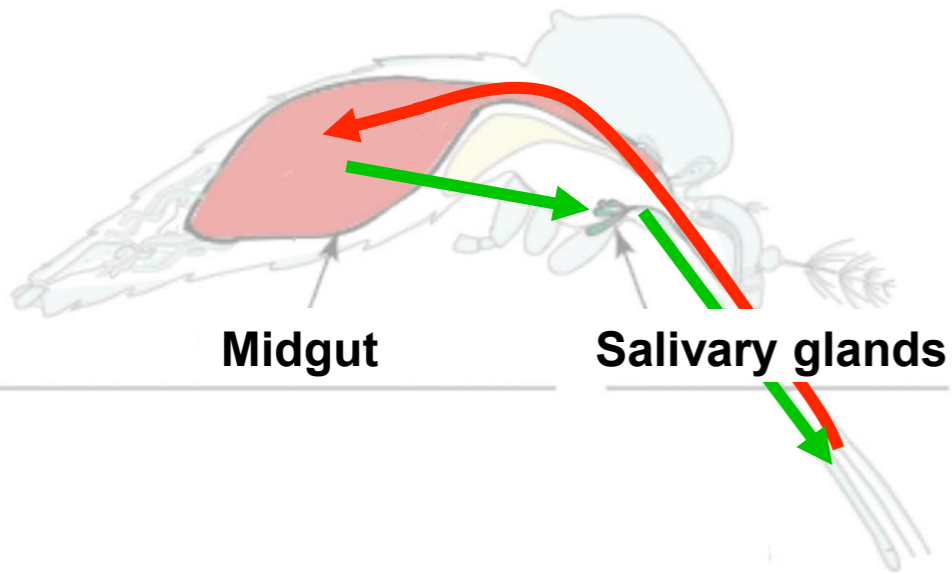


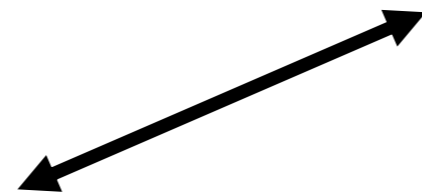
Mosquito Immune Responses

Inserm U1257 - IBMC, Strasbourg



Mosquito / Pathogen Interactions

Mosquito pro/antiparasitic genes
Parasite genes required for mosquito infection
Molecular and cellular mechanisms



Transmission-blocking strategies

Mosquito gene drives
Sexing strains for SIT
Antimalarial compounds

Surveillance

Virome surveillance by small RNAseq

Main working models

- *Anopheles gambiae* sl – *P. falciparum*, *P. berghei*
- *Aedes aegypti* – arboviruses
- *Aedes albopictus* - arboviruses



Inserm U1257 – IBMC Insectarium - Strasbourg

Lab expertise:

- Mosquito breeding & husbandry
- Genetic analyses in mosquitoes
Vector borne-diseases, insect immunity
- Mosquito/parasite redox homeostasis
- Drug assays, incl. transmission (Gam., mosquitoes)
- Drug mode of action



CoRTecS IBISA EMERG'IN erinha

Platform - IBMC Insectary (2018):

- 8 air-conditioned breeding rooms
- Mosquito confinement for invasive species, GMOs, gene drive
- Mosquito transgenesis platform / high-throughput larvae sorting
- BSL3 labs for parasite/virus culture and for mosquito infections with human pathogens

