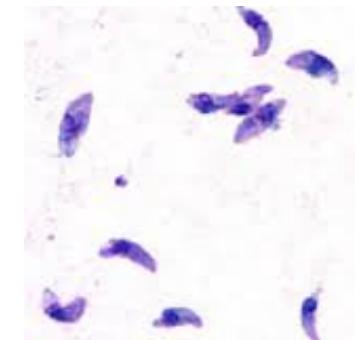
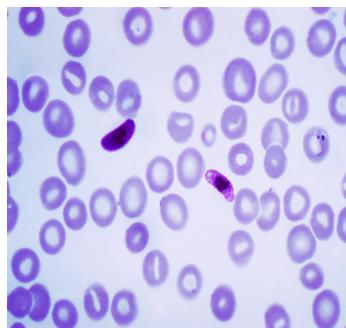


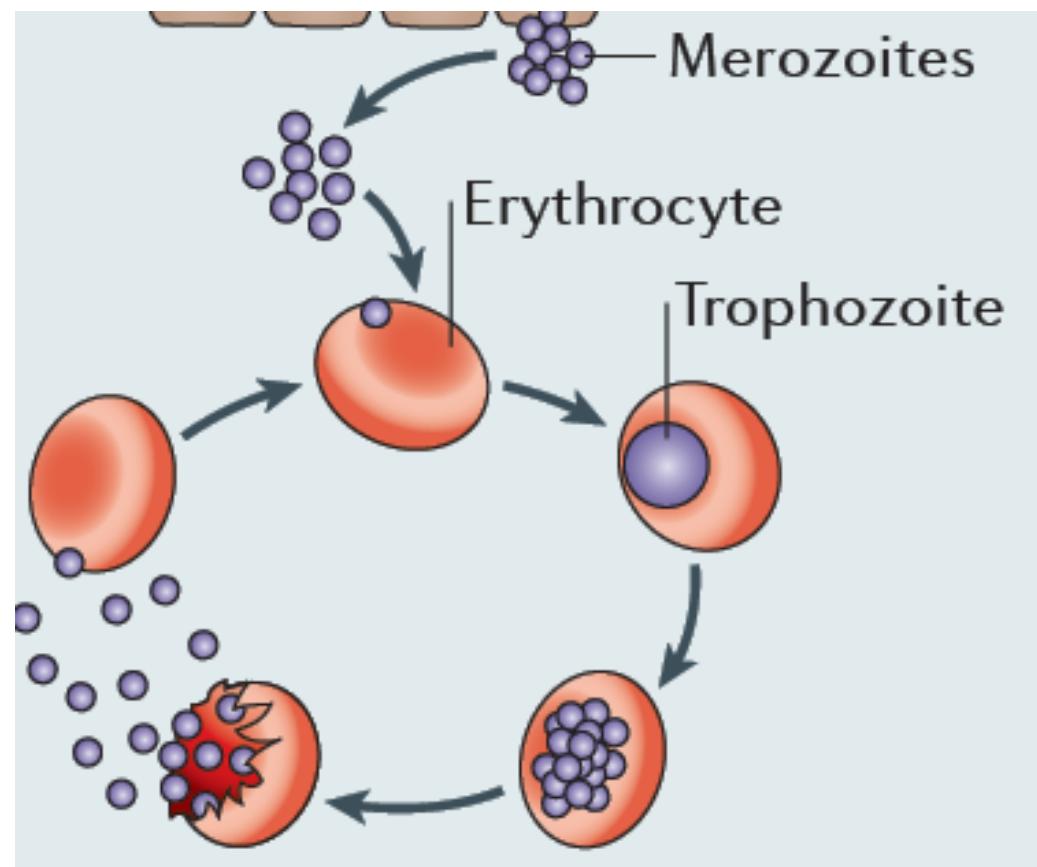
Module 2

Genetic manipulation of *P. falciparum*
using the Di-Cre system

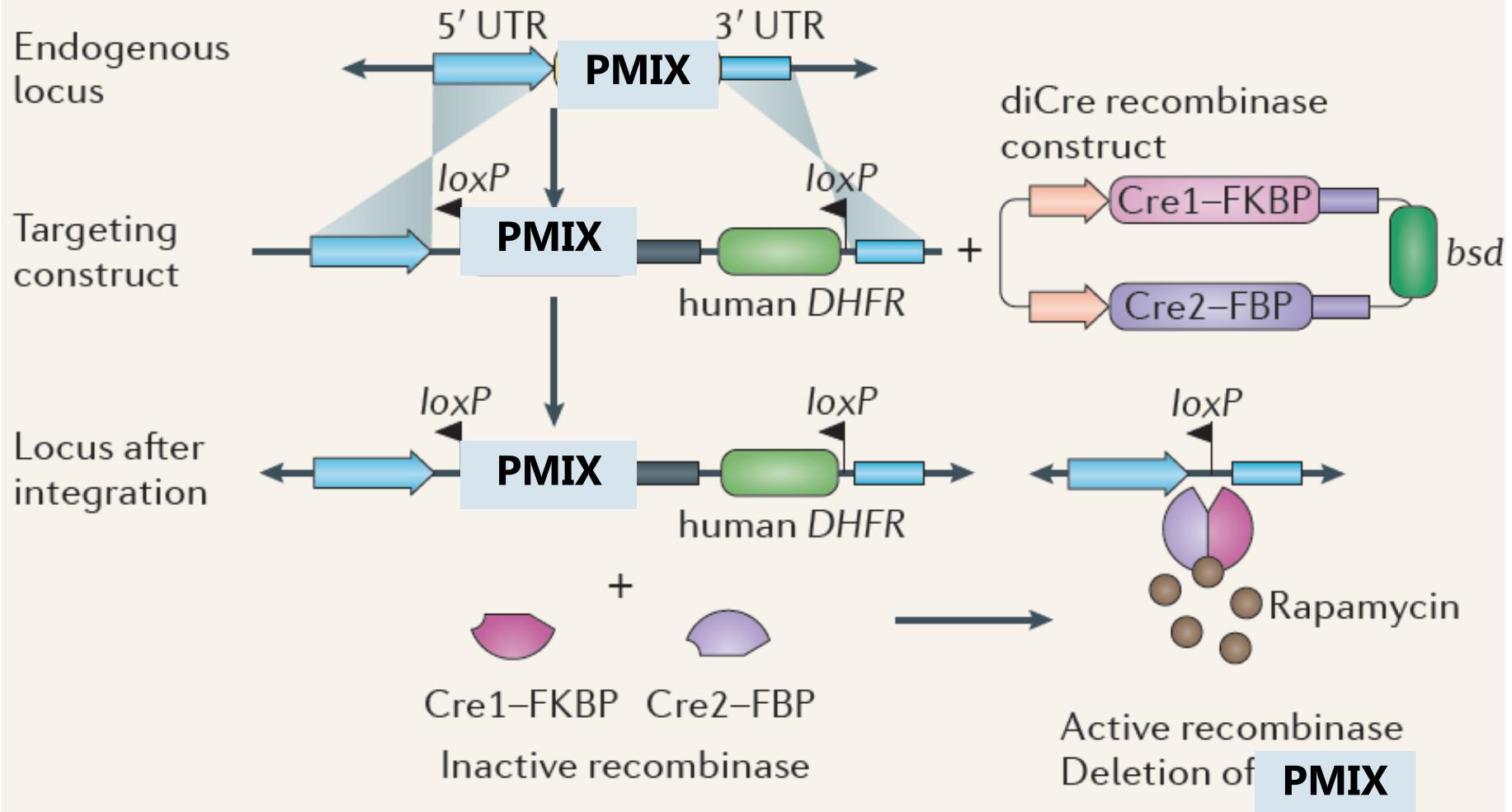
Gertrude and Yana



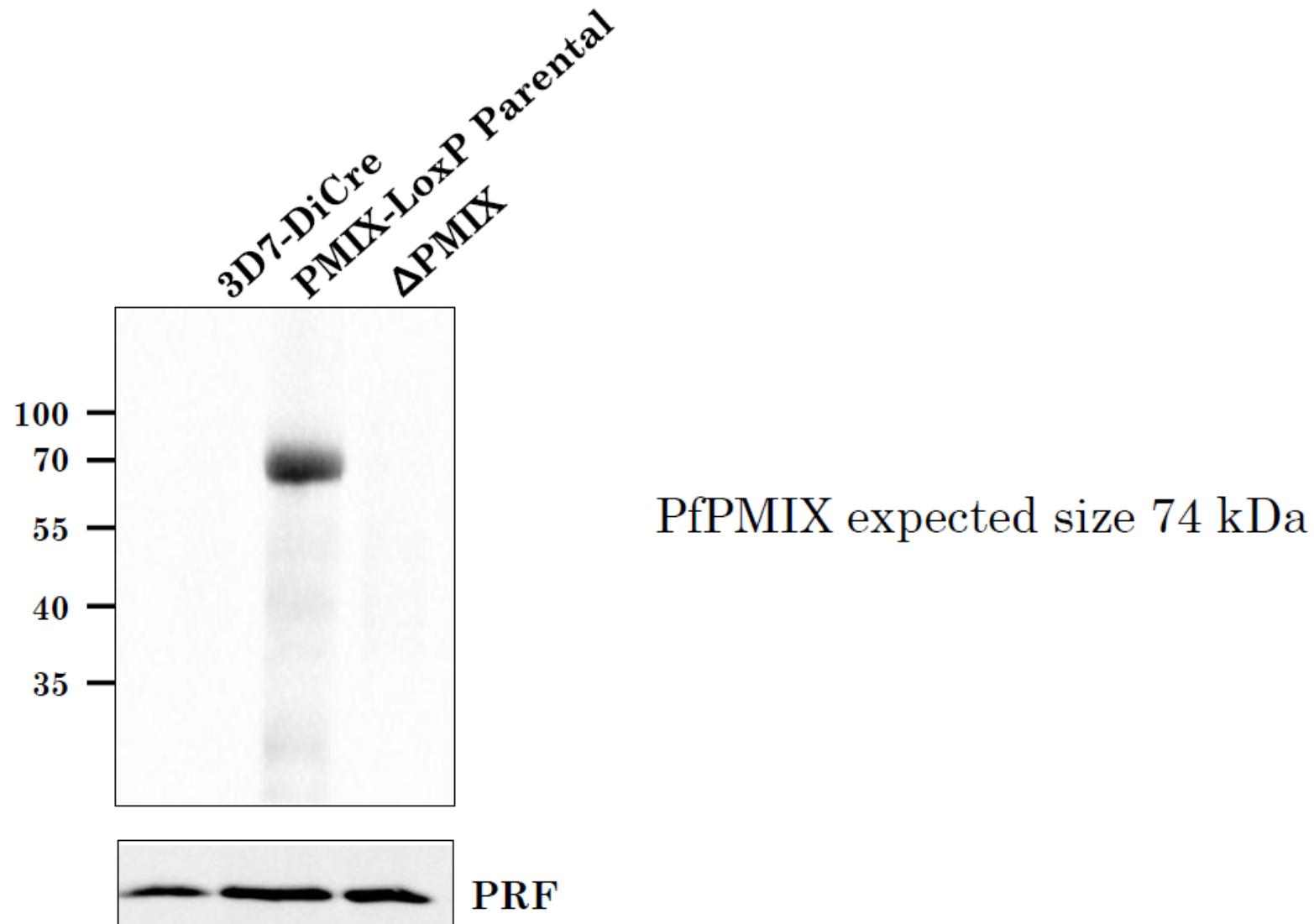
Blood stage of *Plasmodium falciparum*



a Conditional gene deletion



PfPMIX-Ty-Lox expression/excision



Pros and Cons

Pros:

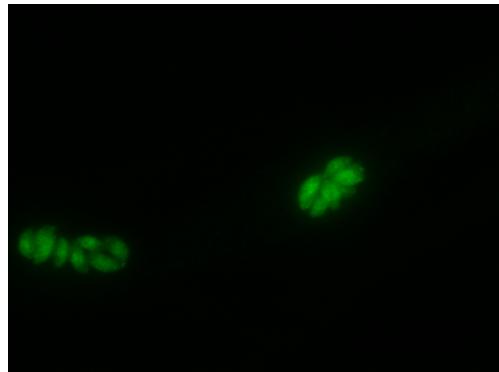
- Complete ablation of gene function if gene is excised
- Flexibility to control gene manipulation

Cons:

- Not reversible
- Costly
- Time needed for excision (4 hours)
- Multifunctional protein



-ATC



+ATC

