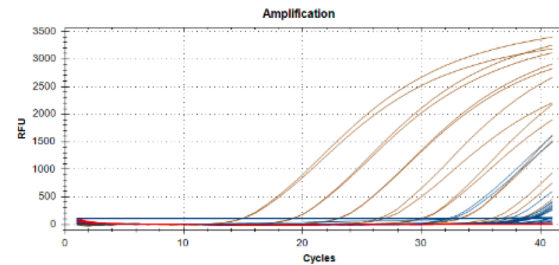


# The GATAC-Malaria lab

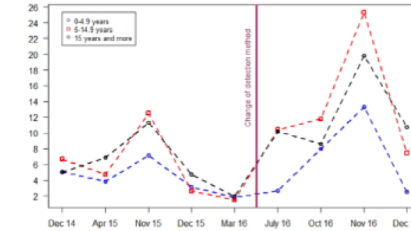
## *Genomics Approaches to Tackle Asymptomatic Chronic Malaria*



*Fieldwork*



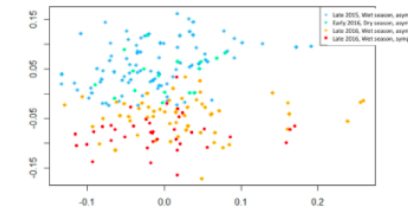
*qPCR diagnosis*



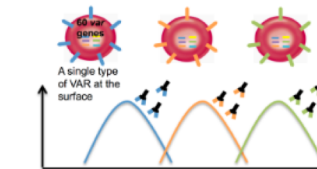
*Prevalence*



*Genotyping*



*Transcriptomics*



*Antigenic Variation*



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# GATAC-Malaria: Genomics Approaches to Tackle Asymptomatic Chronic Malaria

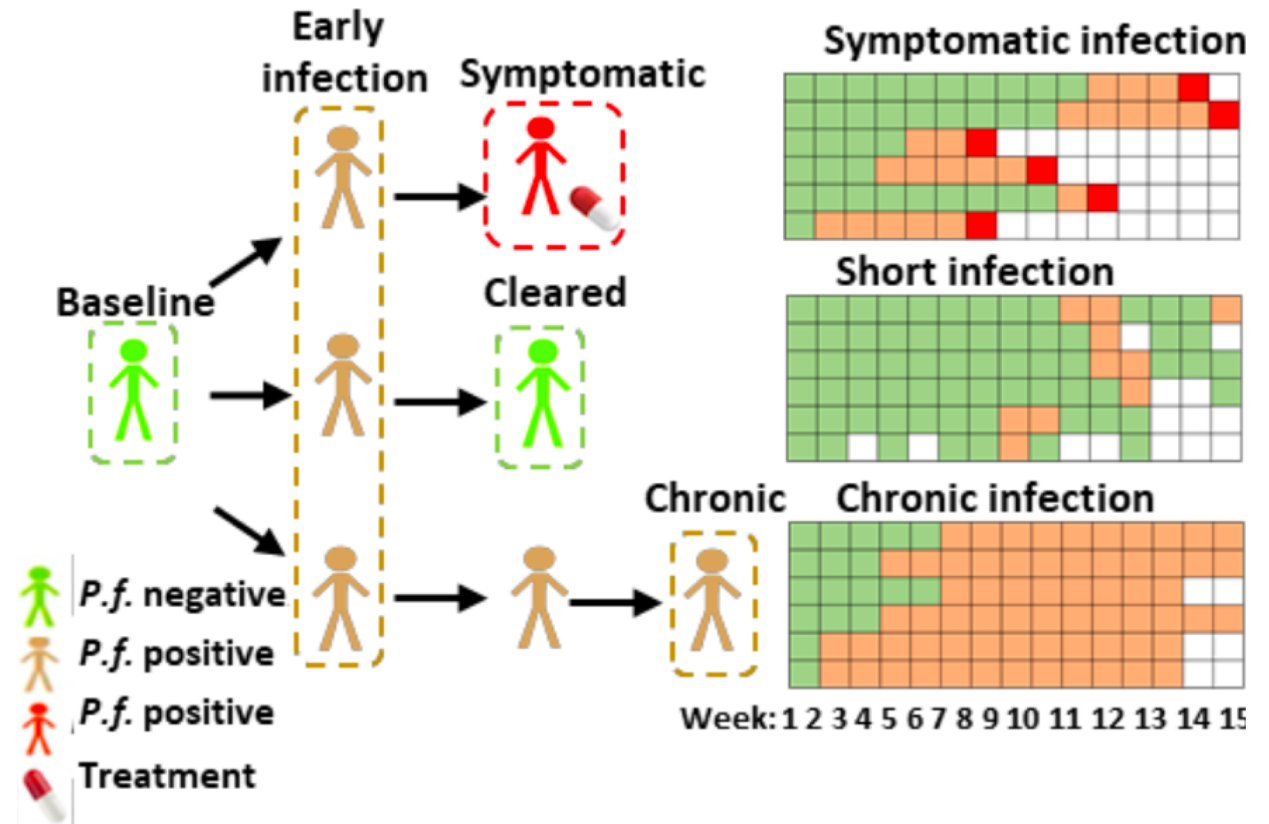
## The MADBIO project:

**Why do some *P. falciparum* infections cause symptoms while others remain chronically asymptomatic?**

Collab with Sandrine Nsango (Cameroun), Lucas Amenga-Etego (Ghana), Sandrine Marquet (Marseille) and Nicolas Blanchard (Toulouse)

### Methods:

- Parasite genotype with amplicon sequencing
- Parasite RNAseq for transcriptomics
- PBMC characterisation by FACS and single-cell RNAseq



Our 'biobank' and 'databank' in Montpellier, we are happy to share and collaborate:

- **40 *P. falciparum* isolates from The Gambia**, derived from asymptomatic infections, culture-adapted, genome sequenced with long-read sequencing.
- **~500 plasma samples** from The Gambia, Cameroon, Ghana.

**Results from this project will be presented at the ParaFrap Webinar on Thursday 13 Nov at 3pm! Join in!**