

Group assignments:

Groups 1, 2 & 3 will be examining data from a study called “*Plasmodium berghei* transcriptome for female gametocytes, male gametocytes, and asexual erythrocytic stages”

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5604118/>

The data is available in the sequence repositories:

<https://www.ebi.ac.uk/ena/data/view/PRJNA374918>

Sample Name	Erythrocyte stages (Asexual)	Male gametocytes	Female gametocytes
Sample Accession Numbers	SAMN06339669 SAMN06339670 SAMN06339671	SAMN06339666 SAMN06339667 SAMN06339668	SAMN06339663 SAMN06339664 SAMN06339665

Group Number	1	2	3
Comparison	Erythrocyte stages vs. Male gametocytes	Erythrocyte stages vs. Female gametocytes	Male gametocytes vs. Female gametocytes
Ref genome in Galaxy	PlasmoDB-51_PbergheiANKA_Genome		

Groups 4, 5 & 6 will be examining data from a study called “*Plasmodium falciparum* NF54 Transcriptome” which examines RNAseq from 3 stages: erythrocytic, salivary gland and cultured sporozoite stages. This study is unpublished but data is accessible in the sequence repositories:

<https://www.ebi.ac.uk/ena/data/view/PRJNA230379>

Sample Name	Erythrocyte stages (Asexual)	Salivary gland sporozoites	Cultured sporozoites
Sample Accession Numbers	SAMN02428730 SAMN02428734	SAMN02428726 SAMN02428729	SAMN02428728 SAMN02428727

Group Number	4	5	6
Comparison	Erythrocyte stages vs. Salivary gland sporozoites	Erythrocyte stages vs. Cultured sporozoites	Salivary gland sporozoites vs. Cultured sporozoites
Ref genome in Galaxy	PlasmoDB-51_Pfalciparum3D7_Genome		

Group 7 will be examining data from a study called “RNAseq from adult male and female *Anopheles stephensi*” We will compare the male to the female samples.

<https://www.ncbi.nlm.nih.gov/bioproject/277477>

Sample Name	Male	Female
Sample Accession Numbers	SAMN03393017 SAMN03393047 SAMN03393048	SAMN03393049 SAMN03393050 SAMN03393051

Group Number	7
Comparison	Male <i>Anopheles stephensi</i> vs. Female <i>Anopheles stephensi</i>
Ref genome in Galaxy	VectorBase-47_AstephensiIndian_Genome

Groups 8 & 9 will be examining the transcriptome of *Aspergillus fumigatus* incubated in human blood from a study called “*Aspergillus fumigatus* in blood reveals a "just wait and see" resting stage behavior”

<https://pubmed.ncbi.nlm.nih.gov/26311470/>

The data is available in the sequence repositories:

<https://www.ebi.ac.uk/ena/browser/view/PRJNA287921>

Sample Name	Pre-culture media (pre)	Blood media 30 min (B30)	Blood media 180 min (B180)
Sample Accession Numbers	SAMN03792073 SAMN03792081	SAMN03792074 SAMN03792077	SAMN03792075 SAMN03792076

Group Number	8	9
Comparison	pre vs B30	pre vs B180
Ref genome in Galaxy	FungiDB-29_AfumigatusAf293	