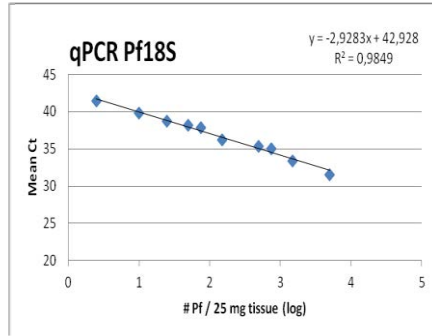


Samples A-L

25 mg tissue from each fragment

100 μ l DNA extract

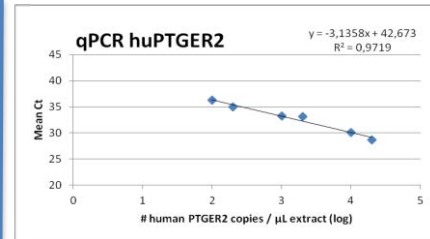
5 μ l DNA extract used for qPCR of *P. falciparum* (18S)



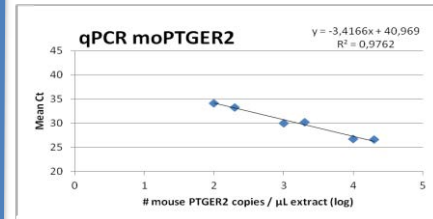
Standard curve using Pf ring stages

Number of *P. falciparum* parasites (haploid) per 25 mg sample = $X = \text{expt. value} \times 20$

1 μ l DNA extract used for qPCR of human and mouse liver cells (PTGER2)



Standard curve using human PBMC



Standard curve using human PBMC

Number of human hepatocytes (diploid) per 25 mg sample = $Y = \text{expt. value}/2 \times 100$

Total number of *P. falciparum* parasites per 10^6 human hepatocytes =

$$(X_A/Y_A + X_B/Y_B + X_C/Y_C + X_D/Y_D + \dots X_K/Y_K + X_L/Y_L) \times 10^6$$