



Supplementary Fig. S3. Analysis of Development-Dependent PFMs20 Binding Kinetics. This analysis quantified the binding efficiency of PFMs20 to *Plasmodium falciparum*-infected erythrocytes across key developmental timepoints (6, 16, 24, 30, 33, and 36 h post synchronization). To ensure a highly synchronized parasite population, cultures were subjected to two rounds of 5% D-sorbitol treatment. Binding kinetics were assessed via flow cytometry with SYBR Green I (parasite DNA) and PFMs20 labeling ($n=3$ biological replicates).