

Figure S5: Biosynthetic capture reveals temporal and population-specific mRNA dynamics. A) Nascent transcription genes which are characteristic of either asexual development (msp1), gametocyte commitment (gexp05), or gametocyte maturation (puf2, pf11-1) were plotted over time for all strains ($3D7^{cam}$, solid red circles; $3D7^{pfs16}$, dashed red squares; F12 cam , solid green circles; and F12 pfs16 , dashed green squares). B) Transcription and stabilization dynamics for two gene markers of gametocyte commitment, pfs16 and pfg14.744, are plotted over time for each strain. Each plot demonstrates that transcription of pfs16 occurs in all strains; however, in parasites that become gametocytes ($3D7^{pfs16}$) this transcript is stabilized. Similarly, pf14.748 is stabilized in $3D7^{pfs16}$ parasites which are becoming gametocytes but not in F12 pfs16 .