**Supplementary Movie 1**

Sequential 3D re-construction of SBF-SEM images. The 3D structure of late-stage gametocytes determined using SBF-SEM sections. This supplemental movie corresponds to Figure 2.

**Supplementary Movie 2**

Continuous tilting images with aligned and inverted contrast. This movie corresponds to Figure 7.

**Supplementary Movie 3**

Sequential tilting images of late-stage gametocyte-erythrocytes with aligned and inverted contrast. Parasite stage and morphology in this movie are relevant to Figure 6.