Architecture and host interface of environmental chlamydiae revealed by electron cryotomography

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Supplementary Information

Figure S1. Simkania, Parachlamydia and Protochlamydia do not recruit mitochondria to their inclusions.
MitoTracker staining of mitochondria (red) was combined with detection of chlamydiae (green) and the amoeba host (blue) by fluorescence in situ hybridization. No significant clustering of mitochondria around inclusions of Simkania (A), Parachlamydia (B) or Protochlamydia (C) was detected in A. castellanii. Bars 10 µm.

Figure S2. More examples of putative Simkania T3S structures with sheared-off needles.
Shown are slices through cryotomograms of purified Simkania. Often, a widening of the periplasm and basal body-like densities were observed in the absence of a T3S needle, suggesting some needles are sheared off during purification. Bar 100 nm.

Movie S1. Crescent bodies are not seen in projection images of plunge-frozen Parachlamydia cells.

Movie S2. Cryotomogram and 3D model of the Simkania inclusion from Figure 3D.

Movie S3. Cryotomogram and 3D model of the Parachlamydia inclusion from Figure 3L.

Movie S4. Cryotomogram and 3D model of the Protochlamydia inclusion from Figure 4C.
Figure S1