

*Legionella pneumophila* prevents proliferation of its natural host *Acanthamoeba castellanii*

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**Legend for supplementary Information**

**Video 1: *A. castellanii* motility and cell division.**

*A. castellanii* 30010 were visualized by a time lapse microscopy experiment. The movie record ran around 17 h. Cells seemed highly motile and some cytokinesis figures were observed.

**Video 2: *L. pneumophila* prevents cell division of *A. castellanii*.**

*A. castellanii* ATCC 30010 were infected with *L. pneumophila* Paris expressing GFP (G\_EP10) at a MOI of 20. No cell division was observed with GFP positive cells. The movie record started 16 h after the end of the infection and ran for around 17 h.