

Supplementary material of

**Comparative analysis of the minimum number of replication origins in  
trypanosomatids and yeasts**

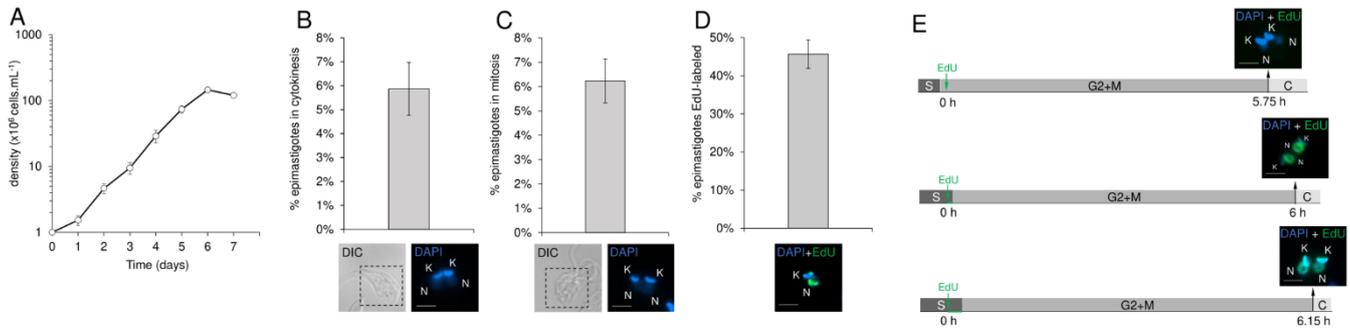
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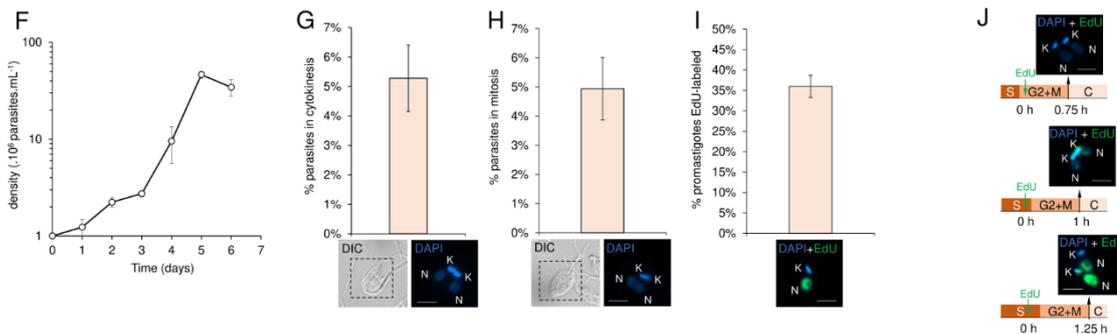
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## Figure S1

### *Trypanosoma cruzi*



### *Leishmania major*



**Figure S1. Parameters required to use the CeCyD website.** **A, F.** The doubling time for **(A)** epimastigote forms of *T. cruzi* was estimated to be 24 h, and for **(F)** promastigote forms of *L. major* was estimated to be 10.5 h. These estimates were confirmed taking the values at exponential phase and using Doubling Time software (<http://www.doubling-time.com>). Error bars indicate SD of three independent experiments. **B, G.** DAPI-labeled parasites (2K2N) were used to measure the percentage of parasites in cytokinesis ( $n = 208$  for *T. cruzi* and  $232$  for *L. major*). **C, H.** DAPI-labeled parasites (2K2N with the nucleus dividing) were used to measure the percentage of parasites in mitosis ( $n = 62$  for *T. cruzi* and  $58$  for *L. major*). **D, I.** EdU-labeled parasites (after 1 h EdU pulse) were used to estimate the percentage of parasites able to uptake this thymidine analog ( $45.7 \pm 1.7\%$  for *T. cruzi* and  $36 \pm 1.7\%$  for *L. major*). **E, J.** To estimate the duration of the G2 + M phases, EdU was added to the culture, and parasites were continuously collected every 15 min until parasites containing two EdU-labeled nuclei in the same cell (cytokinesis) were observed. This pattern was observed after **(E)** 6 h for *T. cruzi*, and after **(J)** 1 h for *L. major*. This assay was carried out in triplicate, and in all replicates, we found a parasite containing two EdU-labeled nuclei at the same time. Error bars represent SD. The scale bars for the fluorescence images correspond to 2  $\mu\text{m}$ .