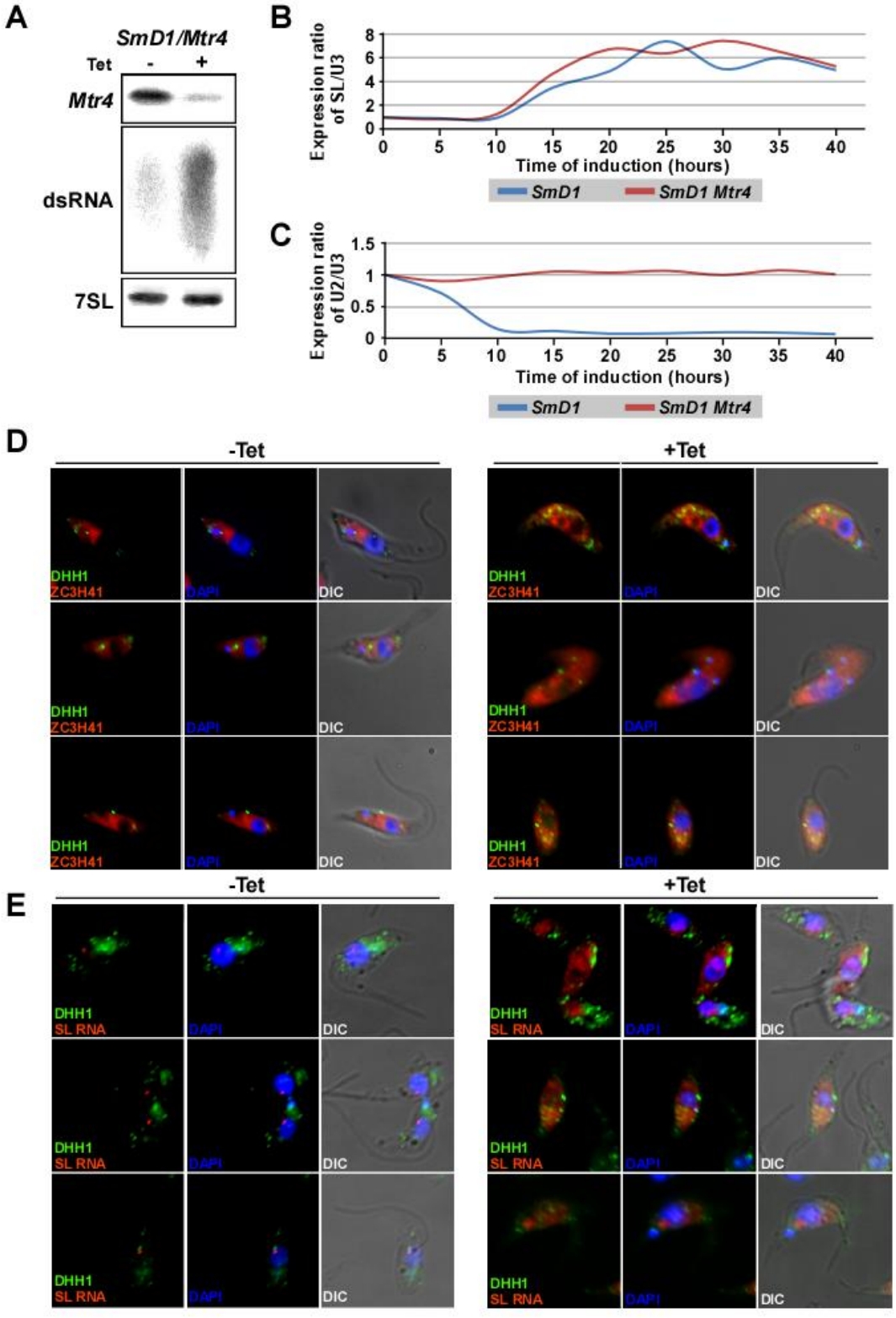
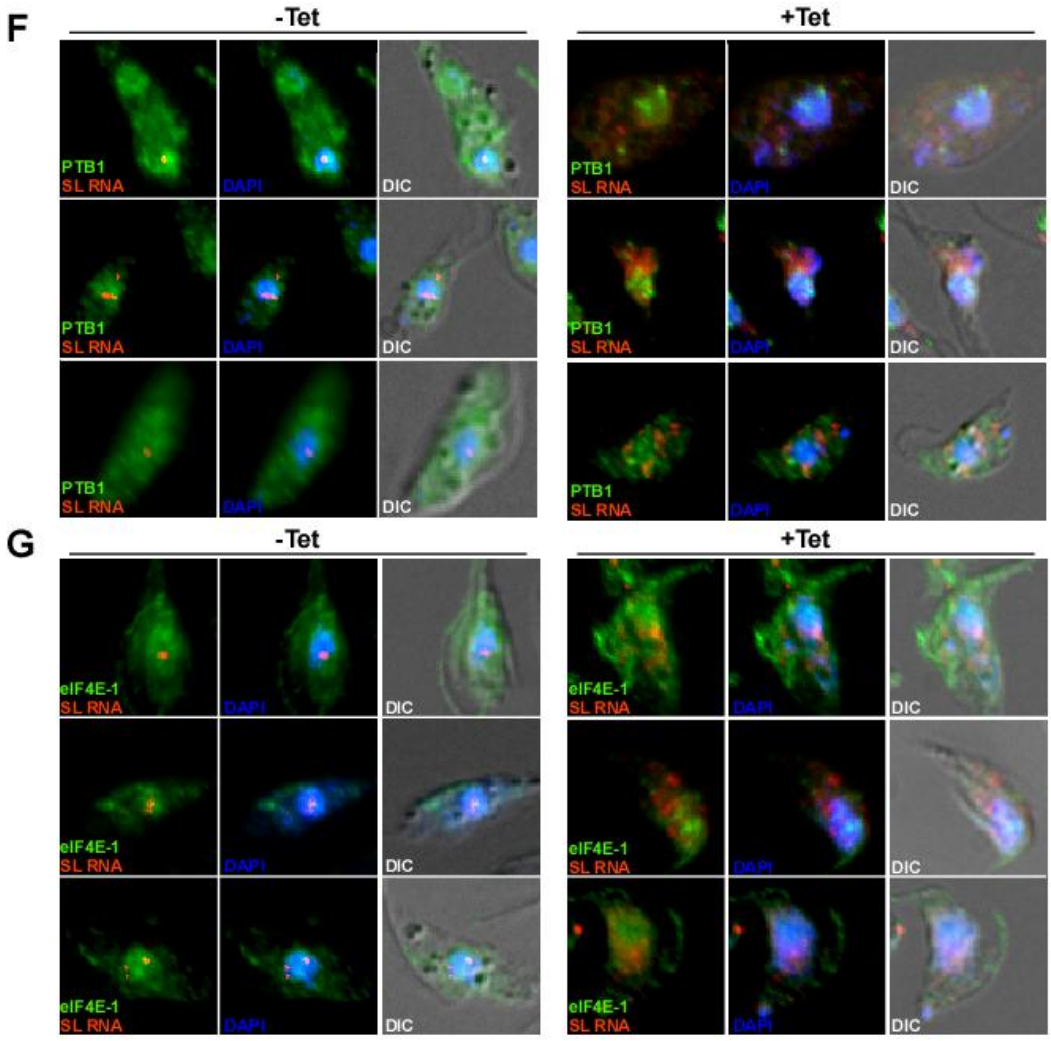

A
SmD1/Mtr4
Tet - +
Mtr4
dsRNA
7SL
B
Expression ratio of SL/U3
Time of induction (hours)
SmD1
SmD1 Mtr4
C
Expression ratio of U2/U3
Time of induction (hours)
SmD1
SmD1 Mtr4
D
-Tet
+Tet
DHH1
ZC3H41
DAPI
DIC
E
-Tet
+Tet
DHH1
SL RNA
DAPI
DIC



S5 Fig. MTR4 silencing (A) Northern blot analysis of cells carrying the silencing construct for *SmD1/Mtr4*. RNA was prepared from un-induced cells (-Tet) and cells after 2 days of induction (+Tet). Total RNA (20 µg) was subjected to Northern analysis with anti-sense RNA probe to *Mtr4* (Tb927.10.7440). The mRNA transcripts, dsRNA, as well as 7SL RNA are indicated. **(B)** Quantification of changes in SL and U3 snRNA. The ratio between SL RNA and U3 was calculated for each time point that is presented in Figure 2A (*SmD1* silenced cells) and in Figure 2B (*SmD1/VPS36* silenced cells). **(C)** As in **(B)** but showing the ratio between U3 and U3 snRNAs. **(D)** ZC3H41 is present mostly outside of P-bodies. ZC3H41 localization was determined with respect to P-bodies labeled with DHH1. Cells carrying the *SmD1* silencing construct and the YFP-DHH1 construct were silenced for 2 days and subjected to IFA using ZC3H41 and YFP antibodies (red and green, respectively). The nucleus was stained with DAPI. **(E)** Cytoplasmic SL RNA is not found in P-bodies. Cells carrying

the *SmD1* silencing construct and expressing YFP-DHH1 were induced for 2 days and subjected to *in situ* hybridization with SL RNA (red), and immunofluorescence using YFP antibody for YFP-DHH1 (green). The nucleus was stained with DAPI. **(F)** SL RNA granules are distinct from stress granules. Cells were silenced for 2 days and stained by IFA using PTB1 antibodies (green stain) and subjected to *in situ* hybridization with SL RNA (red). The nucleus was stained with DAPI. **(G)** As in **F** but using antibodies to eIF4E-1. The merge was performed between DAPI staining, IFA and *in situ* hybridization.