Supplemental material for

Uptake without inactivation of human adenovirus type 2 by *Tetrahymena pyriformis* ciliates

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Running title: Interaction of human adenovirus type 2 with ciliates.

Condition	Exposure time to HAdV2	Initial <i>T. pyriformis</i> concentration (cells \times ml ⁻¹)	Initial virus titer (GC × ml ⁻¹)
А	50 minutes with respiking	1×10^{5}	$\sim 1 \times 10^9$
В	50 minutes with respiking	3×10^{5}	$\sim 1 \times 10^9$

Table S1: Experimental conditions used in samples analyzed by TEM.

Table S2: Statistical analysis between HAdV2 removal in replicated experiments using 15 hstarved *T. pyriformis* and the negative *T. pyriformis* free controls. After starvation, *T. pyriformis* were co-incubated with HAdV2 for 48 h (Figure 1B). Removal values of each individual experiments (n=3 for each) were compared to the removal values of the negative control (n=3) using unpaired t-tests.

Replicated experiments comparison	Unpaired t-test results
1 vs. control	t(4) = 11.36, p-value = 0.0003
2 vs. control	t(4)=16.63, p-value < 0.0001
3 vs. control	t(4)=35.09, p-value < 0.0001

Table S3: **Statistical analysis of the variability of HAdV2 removal in replicated experiments using 15 h-starved** *T. pyriformis.* After starvation, *T. pyriformis* were co-incubated with HAdV2 for 48 h (Figure 1B). Removal values among individual experiments (n=3 for each) were compared by ordinary one-way ANOVA with Tukey's multiple comparisons test under the assumption of normal distribution, homogeneity in variances and independent observations.

Replicated experiments comparison	Mean difference	95% confidence interval	p-value
1 vs. 2	-0.56	-1.28 to 0.16	0.136
1 vs. 3	-0.74	-1.46 to -0.02	0.045
2 vs. 3	-0.18	-0.90 to 0.54	0.859

Table S4: **qPCR results from experiment with formalin-killed versus live** *T. pyriformis* **co-incubated with HAdV2.** Corresponding infectivity data is shown in Figure 2. Statistics indicate a significant difference under the assumption of equal variances (unpaired two-tailed t-test: t(2) = 22.24, p-value = 0.002). The apparent gain in genome copies in formalin-killed *T. pyriformis* samples after 48 h can be attributed to artefact in the qPCR assay.

	Live T. pyriformis	Formal	in-killed <i>T. py</i>	riformis
$Log_{10}(N_{exp}/N_0)$	-1.8	0.7	0.8	0.8

Table S5: Statistical analysis of digestion experiment (Figure 5B). Virus concentration at different times post transfer to virus-free solution were complared by one-way ANOVA Tukey's multiple comparisons under the assumptions of normal distribution, homogeneity in variances and independent observations.

Tukey's multiple comparisons test	Mean Difference	95,00% CI of difference	Adjusted P Value
0 h vs. 12 h	0,015	-1,181 to 1,211	0,990
0 h vs. 24 h	-0,47	-7,749 to 6,819	0,661
0 h vs. 48 h	-0,77	-2,292 to 0,7521	0,105
12 h vs. 24 h	-0,48	-6,568 to 5,608	0,575
12 h vs. 48 h	-0,78	-1,111 to -0,4588	0,021
24 h vs. 48 h	-0,30	-6,067 to 5,457	0,735