Regulation of pH in early endosomes and interferon-inducible transmembrane proteins modulate avian retrovirus fusion

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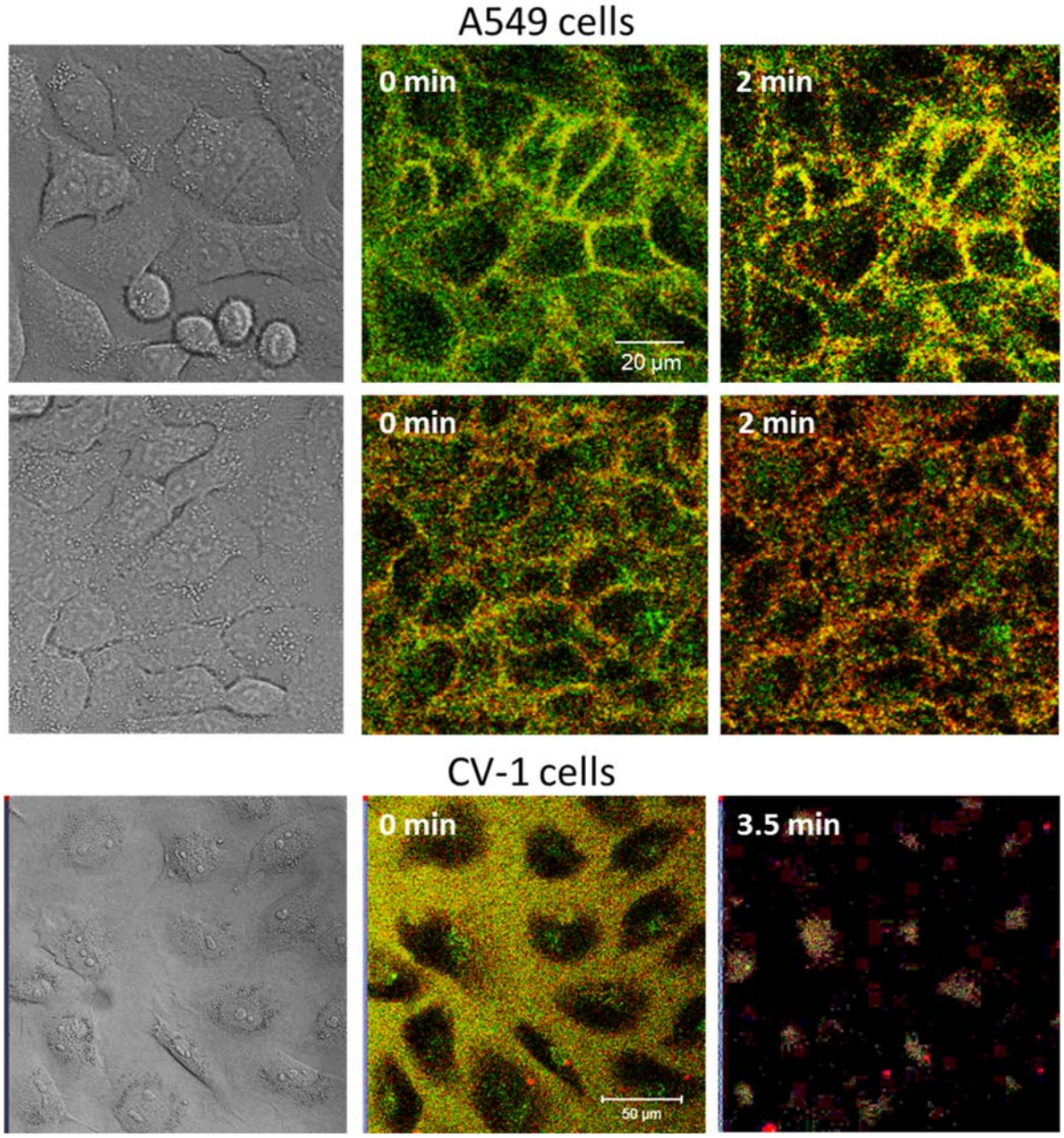
Supplemental Data

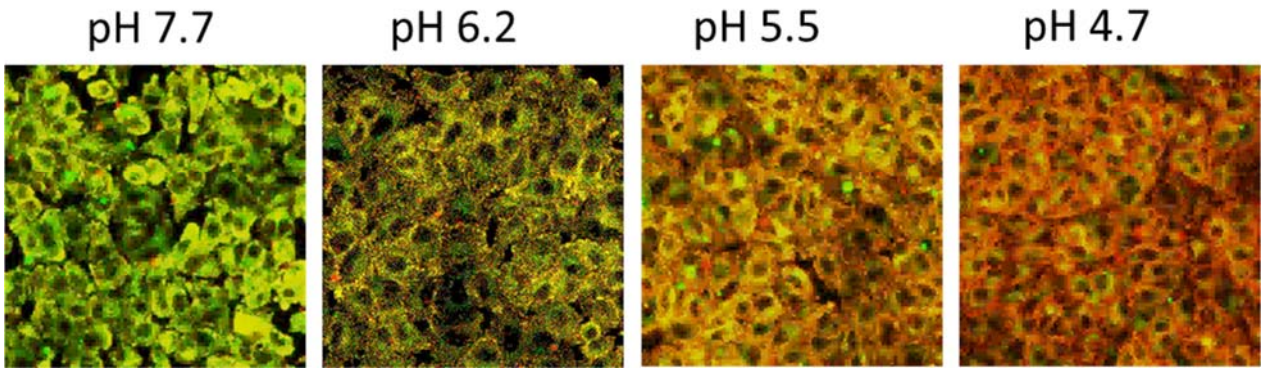
List of attached files:

Supplemental Figure 1 and legend

Supplemental Figure 2 and legend



Supplementary Figure S1. Visualization of endosomal acidification in A549 and CV-1 cells using a mixture of two fluorescent transferrins. *Top and middle panels*: A549/TVA950 cells bathed in DMEM or LIB, as indicated, were allowed to internalize a mixture of FITC-transferrin (green) and AF594 transferrin (red) at 37°C, and time-lapse confocal images were taken. Shown are the 0 min (before uptake) and 2 min time points. DIC images are shown on the left. Lower panel: transferrin uptake by CV-1/TVA950 cells bathed in LIB. Conditions experimental were identical to those employed in top and middle panels.



Supplementary Figure S2. Calibration of endosomal pH using a mixture of fluorescent transferrins. A549/TVA950 cells were allowed to internalize a mixture of FITC-transferrin (green) and AF594 transferrin (red) for 15 min at 37°C, as described in Experimental Procedures. Cells were then exposed to solutions buffered at indicated pH and supplemented with monensin/nigericin in order to equilibrate extracellular and endosomal pH.