**Video Legends**

**Supplementary Video 1. Cellular morphogenesis of internalized *A. fumigatus* by epithelial cells**. 3D-rendering of GFP *A. fumigatus* within A549 epithelial cells at 18 h post infection. Epithelial monolayer (magenta) was stained with Cell Mask. Note that despite the extension of internalized *A. fumigatus*, the integrity of the monolayer is significantly unaffected.

**Supplementary Video 2. *A. fumigatus* morphogenesis is impaired upon intracellular infection of 16HBE bronchial cells**. 16HBE monolayers were challenged with *A. fumigatus* constitutively expressing cytoplasmic GFP in MEM at 37 °C, 5% CO2 for 18 h. Epithelia monolayer was stained with cell mask deep red (magenta). Note that despite the extension of internalized *A. fumigatus*, the integrity of the monolayers is significantly unaffected.

**Supplementary Video 3. Host plasma membrane surrounds internalized *A. fumigatus* upon escape.** 16HBE bronchial monolayers were transfected with a plasma membrane marker (GFP-myristolyation/palmitoylation) and *A. fumigatus* constitutively expressing cytoplasmic RFP and cultured in MEM at 37 °C, 5% CO2 for 18 h.