**ADDITIONAL FILE 2**

**Characterization of cystic fibrosis airway epithelial cell cultures at the air-liquid interface obtained by non-invasive nasal cytology brush sampling**

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| **A** | **B** |
|  |  |
| **Recording of ciliary beat by differentiated cystic fibrosis cell cultures grown at the air-liquid interface.** Representative movies of ciliary beating and mucociliary transport of cell debris of well-differentiated cystic fibrosis nasal epithelial cell cultures (A, B). Image series of beating cilia were taken serially at 300 frames per second at a 40X magnification (as described in the main manucsript) and played at 50 frames per second. |