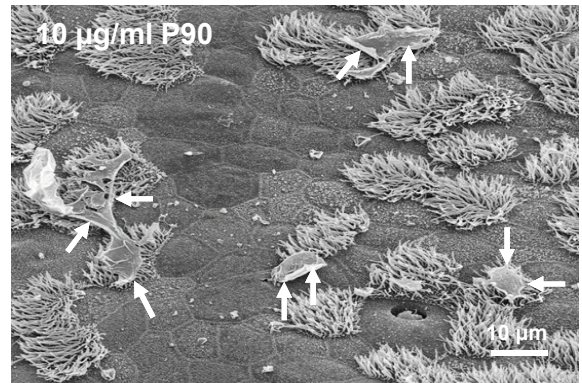
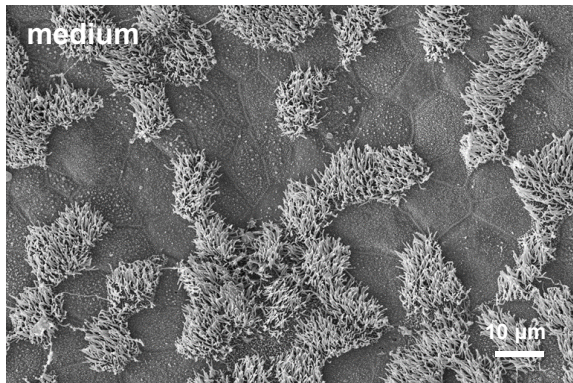
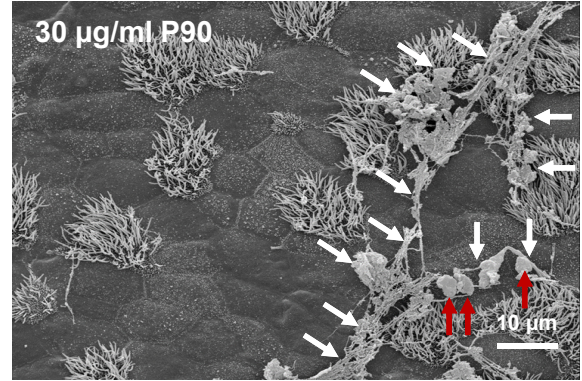
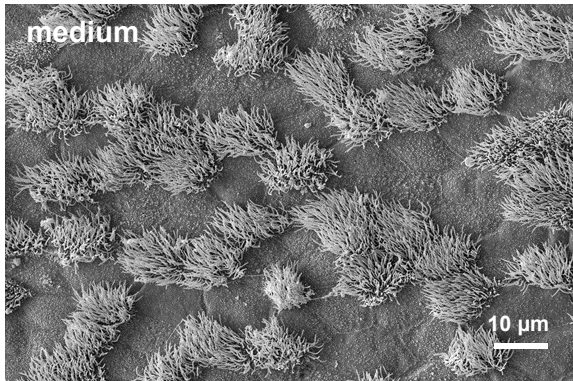


## Additional file 18

**A**



**B**



### **P90 induced mucus release.**

Representative images of scanning electron microscope analysis of tracheal epithelium after exposure to 10  $\mu\text{g/ml}$  and 30  $\mu\text{g/ml}$  P90 compared to medium control. White arrows indicate mucus structures, red arrows indicate cell debris.