



**Fig. S4.** Panel A: Alcian blue PAS staining of lung tissue from WT and Par2 KO mice showing mucous cell metaplasia after exposure to HDM extract and MWCNTs in both genotypes. Red arrows indicate mucous cell metaplasia. Magnification bars = 100  $\mu$ m. Panel B: Quantitative morphometry of airway mucin in WT and Par2 KO mice.