Table S4. Chemical retrieved from the Comparative Toxicogenomics Database (CTD, URL: http://ctdbase.org/, Davis et al. 2014) and interacting with the two genes (ATP8A1 and ABCA1)

In this table are indicated the LMW agents/irritants/cleaning products or disinfectants evaluated by job specific questionnaires (see Table E1) or exposures known to contain compounds with irritant properties (air pollutants and vehicle emissions).

Chemical Name	Gene Symbol	Interactions	Organism	Reference
Tobacco smoke pollution	ATP8A1	Tobacco Smoke Pollution results in decreased expression of ATP8A1 mRNA	Homo sapiens	Anthérieu S, et al. Comparison of cellular and transcriptomic effects between electronic cigarette vapor and cigarette smoke in human bronchial epithelial cells. Toxicol In Vitro. 2017 Dec;45(Pt 3):417-425.
Tobacco smoke pollution	ATP8A1	Tobacco Smoke Pollution results in increased expression of ATP8A1 mRNA	Mus musculus	Szostak J, et al. Aerosol from Tobacco Heating System 2.2 has reduced impact on mouse heart gene expression compared with cigarette smoke. Food Chem Toxicol. 2017 Mar;101:157-167.
Soot	ATP8A1	Soot results in decreased expression of ATP8A1 mRNA	Mus musculus	Husain M, et al. Carbon black nanoparticles induce biphasic gene expression changes associated with inflammatory responses in the lungs of C57BL/6 mice following a single intratracheal instillation. Toxicol Appl Pharmacol. 2015 Dec 15;289(3):573-88.
Soot	ABCA1	Soot results in decreased expression of ABCA1 mRNA	Mus musculus	Bourdon JA, et al. Hepatic and pulmonary toxicogenomic profiles in mice intratracheally instilled with carbon black nanoparticles reveal pulmonary inflammation, acute phase response, and alterations in lipid homeostasis. Toxicol Sci. 2012 Jun;127(2):474-84.
Air Pollutants	ABCA1	Air Pollutants analog results in decreased expression of ABCA1 mRNA	Homo sapiens	Rager JE, et al. A toxicogenomic comparison of primary and photochemically altered air pollutant mixtures. Environ Health Perspect. 2011 Nov;119(11):1583-9.