**Table S1:** Association between PM exposure and different classes of EV, stratifying subjects by their *Moraxell*a genus relative abundance into Mor- (≤25%) and Mor+ (>25%) group. All the multivariable linear regression models were adjusted for age, gender, smoking behavior (Never smoker, Former smoker, Current smoker), and BMI.

| | | MOR-<br>(n = 30) | | | MOR+<br>(n = 10) | | | *p for interaction* |
|---|---|---|---|---|---|---|---|---|
| | | GMR | (95% CI) | *p* | GMR | (95% CI) | *p* | |
| **PM$_{2.5}$ exposure** | | | | | | | | |
| **EV count$^A$** | Total EV | 1.92 | (1.12-3.30) | 0.02 | 0.78 | (0.40-1.52) | 0.36 | 0.05 |
| (10$^6$/ml PL) | Exosomes | 1.11 | (0.35-3.54) | 0.85 | 0.14 | (0.001-7.458) | 0.26 | 0.02 |
| | CD61+ (platelets) | 2.98 | (0.51-17.3) | 0.21 | 0.81 | (0.004-183) | 0.92 | 0.58 |
| | CD66+ (neutrophils) | 2.63 | (0.51-13.5) | 0.23 | 0.004 | (0.001-0.14) | 0.01 | 0.17 |
| **EV subtypes$^B$** (10$^3$/ ml PL) | EpCAM+ (epithelium) | 2.68 | (0.91-7.93) | 0.07 | 0.005 | (0.001-0.11) | 0.01 | 0.10 |
| | CD105+ (endothelium) | 4.39 | (1.27-15.1) | 0.02 | 0.1 | (0.002-4.30) | 0.17 | 0.47 |
| | CD14+ (macr./monoc.) | 5.34 | (1.09-26.1) | 0.04 | 0.04 | (0.003-0.49) | 0.02 | 0.24 |
| **PM$_{10}$ exposure** | | | | | | | | |
| **EV count$^A$** | Total EV | 1.94 | (1.09-3.43) | 0.02 | 0.81 | (0.37-1.74) | 0.49 | 0.04 |
| (10$^6$/ml PL) | Exosomes | 1.23 | (0.36-4.12) | 0.73 | 0.1 | (0.001-7.45) | 0.21 | 0.02 |
| | CD61+ (platelets) | 3.54 | (0.57-22.1) | 0.17 | 0.48 | (0.001-164.7) | 0.75 | 0.78 |
| | CD66+ (neutrophils) | 2.89 | (0.53-15.9) | 0.21 | 0.002 | (0.00007-0.05) | 0.01 | 0.10 |
| **EV subtypes$^B$** (10$^3$/ ml PL) | EpCAM+ (epithelium) | 3.27 | (1.08-9.91) | 0.04 | 0.003 | (0.00009-0.11) | 0.01 | 0.04 |
| | CD105+ (endothelium) | 5.38 | (1.51-19.1) | 0.01 | 0.06 | (0.001-2.71) | 0.11 | 0.26 |
| | CD14+ (macr./monoc.) | 5.42 | (1.02-28.9) | 0.05 | 0.02 | (0.003-8.83) | 0.01 | 0.16 |

GMR, Geometric Mean Ratio

$^A$ Counts of EV fractions obtained by Nanosight analysis

$^B$ Counts of EV fractions obtained by Flow-cytometry