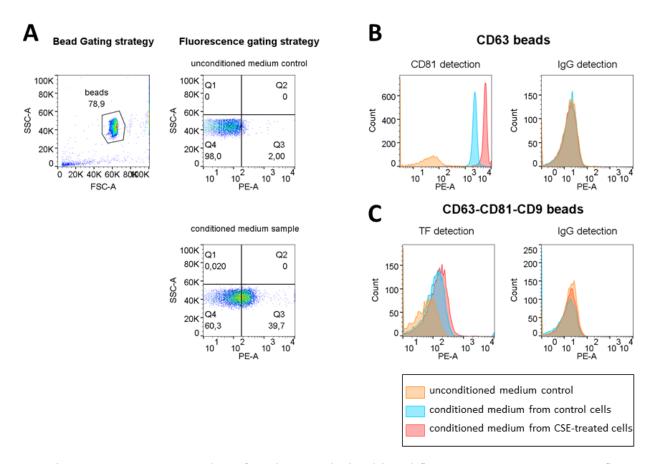
Product	Provider	Catalogue number
BEAS-2B cells	ATCC	CRL-909
MRC-5 cells	ATCC	CCL-171
HEL-299 cells	ATCC	CCL-171 CCL-137
		TIB-202
THP-1 cells	ATCC	11B-202
HPMEC-ST1.6R cells	Dr. C.J. Kirkpatrick lab, Institute for Pathology, University of Mainz, Germany	-
MycoAlert <sup>TM</sup> Mycoplasma Detection Kit	Lonza	LT07-118
Minimal Essential Medium (MEM), no glutamine	Gibco	21090
Minimal Essential Medium Non- Essential Amino Acids (100X Solution)	MP Biomedicals LLC	1681049
L-Glutamine (200mM)	Thermo Fisher Scientific	25030081
Fetal calf serum (FCS)	Biowest	S181G
RPMI 1640	Gibco	52400
β-mercaptoethanol	Sigma-Aldrich	M3148
Sodium pyruvate (100 mM)	Thermo Fisher Scientific	11360070
Glucose		
	Sigma-Aldrich	G7021
MCDB 131 medium, no glutamine Hydrocortisone	Thermo Fisher Scientific Sigma-Aldrich	10372019 H0396
human recombinant epidermal growth factor	Sigma-Aldrich	1137645400
Penicillin-Streptomycin (10,000 U/mL)	Gibco	15140122
Gelatin from bovine skin Type B	Sigma-Aldrich	G9391
24-well plates	Corning	35 <del>2</del> 4
12-well plates	Corning	3513
Phorbol 12-myristate 13-acetate (PMA)	Sigma-Aldrich	P8139
DMEM/F-12, HEPES, no phenol red	Gibco	11039
Bacitracin	Sigma-Aldrich	11702
N-acetyl-L-cysteine	Sigma-Aldrich	, A9165
research reference cigarette	University of Kentucky	3R4F
Dichloromethane	Sigma-Aldrich	270997
PBS	Gibco	
		10010023
Silica nanoparticles Thiazolyl Blue Tetrazolium Bromide	C&E Mineral Corp, King of Prussia, PA Sigma-Aldrich	- M2128
98% (MTT) 4 µm aldehyde/sulphate latex beads	Thermo Fisher Scientific	A37304
4% (w/v)		
mouse anti-human CD81 Clone JS-81	BD Biosciences	555675
mouse anti-human CD63 clone H5C6	BD Biosciences	556019
mouse anti-human CD9 clone M-L13	<b>BD</b> Biosciences	555370
MES buffer	Sigma-Aldrich	M1317
phycoerythrin (PE)-labelled mouse anti-human TF/CD142 antibody	<b>BD</b> Biosciences	550312
phycoerythrin (PE)-labelled mouse anti-human CD81 antibody	<b>BD</b> Biosciences	555676
phycoerythrin (PE)-labelled mouse IgG1-k isotype control	<b>BD</b> Biosciences	555749
Ethylenediaminetetraacetic acid disodium salt (EDTA) dihydrate	Sigma-Aldrich	E5134
Alexa-Fluopr 488 maleimide 5,5-Dimethyl-1-pyrroline N-oxide	Thermo Fisher Scientific	A10254
(DMPO)	Sigma-Aldrich	D5766
Ascorbate	Sigma-Aldrich	11140

Supplementary table 1 Overview of materials with the respective providers and catalogue numbers



**Supplementary Figure 1** Raw data of EV detection by bead-based flow cytometry. Representative flow cytometry plots are shown for an unconditioned medium control and conditioned media samples of unexposed and CSE-exposed BEAS-2B cells. (A) Shows the gating strategy for the bead population. (B) Shows the specificity of fluorescence signal for the detection of the total EV population stained by anti-CD63 coated beads and a PE-labelled anti-CD81 detection antibody, compared to a PE-labelled isotype control. (C) Shows the specificity of the fluorescence signal for the detection of the TF-positive EV population stained by beads coated with a mixture of anti-CD63, anti-CD81 and anti-CD9 antibodies and a PE-labelled anti-TF detection antibody, compared to a PE-labelled isotype control.

**Supplementary table 2** Table for unit conversion for the PM exposure. PM samples were collected at 3 different locations with different levels of air pollution. To reflect the real life exposure at these locations, PM exposure was standardized per volume of filtered air rather than per weight of PM.

PM sample	µg PM/m³	cm² cell surface area / ml of culture medium	1 m <sup>3</sup> /ml in µg/cm <sup>2</sup>	1.5 m <sup>3</sup> /ml in μg/cm²
PM2.5 n1	50.3	3.4	13.2	19.8
PM2.5 n2	30.4		8.0	12.0
PM2.5 n3	30.8		8.1	12.2
PM10 n1	118.1		31.1	46.6
PM10 n2	71.25		18.8	28.1
PM10 n3	77.1		20.3	30.4