

ESI 1: Cytotoxicity of tested particles to A549 cells

Table S1: Overview of EC20 and confidence interval for dose calculation.

Test material	EC20 Exponential model $\mu\text{g/mL}$	Confidence interval $\mu\text{g/mL}$	EC20 Hill model $\mu\text{g/mL}$	Confidence interval $\mu\text{g/mL}$	Selected Dose ² $\mu\text{g/mL}$
CeO ₂ NP-A	n.d. ¹		n.d.		128
CeO ₂ NP-C	n.d.		n.d.		128
CeO ₂ NP-E	n.d.		n.d.		128
CeO ₂ NP-NM212	n.d.		n.d.		128
ZnO NP-NM110	29.4	22.4-37.3	33.9	29.2-38.9	31.6
ZnO NP-NM111	23.3	16.9-30.6	42.6	37.9-51.4	32.9
ZnO MP	57.6	54.9-61.6	57	54.3-61.1	57.3
ZnCl ₂	19.7	14.2- 26.1	29.4	27.7-31.4	24.5
Ag NP-NM300K	37.9	33.5 – 50.1	39.3	34.0-49.7	38.6
Ag MP	n.d.		n.d.		128
AgNO ₃	9.6	2.6 – 12.8	10.1	5.2 – 11.3	9.8

¹ n.d. = dose could not be determined, highest dose (i.e. 128 $\mu\text{g/mL}$) was used for the omics experiments.

² Selected Dose = the highest concentration tested or the average of the EC20s of the Exponential and Hill model

Supplementary material of:

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