

Supplementary Materials: Environmental Risk Assessment of Vehicle Exhaust Particles on Aquatic Organisms of Different Trophic Levels

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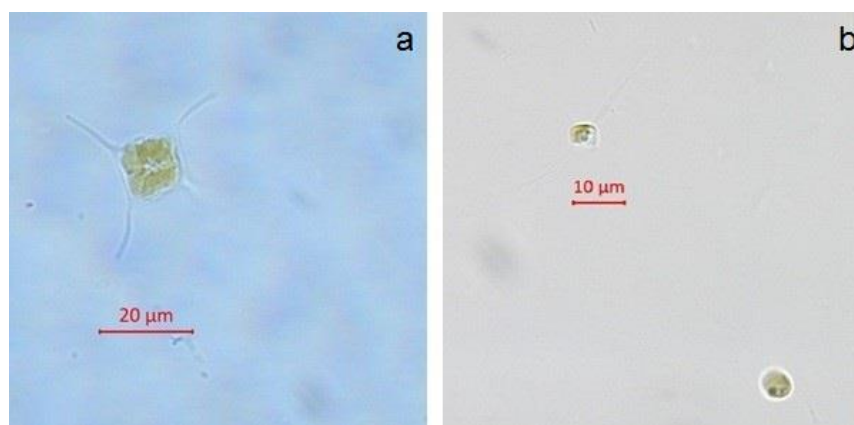


Figure S1. Microalgae cultures used in the experiment: (a) *A. ussuriensis*; (b) *C. muelleri*.

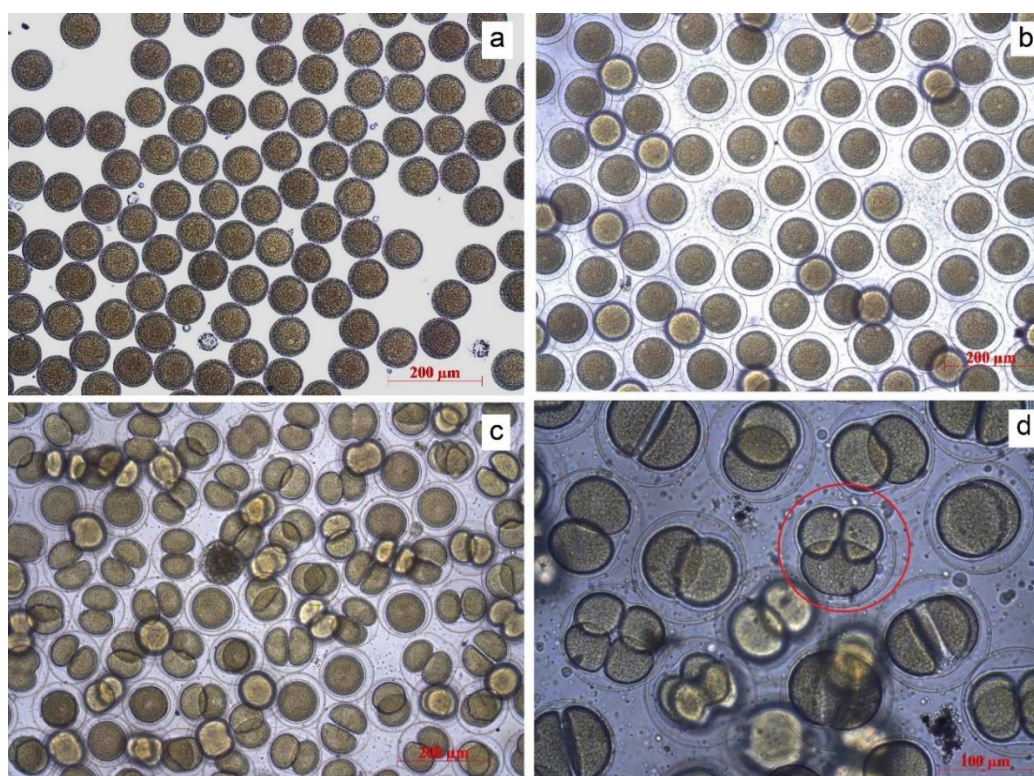


Figure S2. The eggs of sea urchin *S. intermedius*: (a) Sterile eggs; (b) Fertilized eggs; (c) Normal development stage of the embryos; (d) An example of abnormality embryo development.

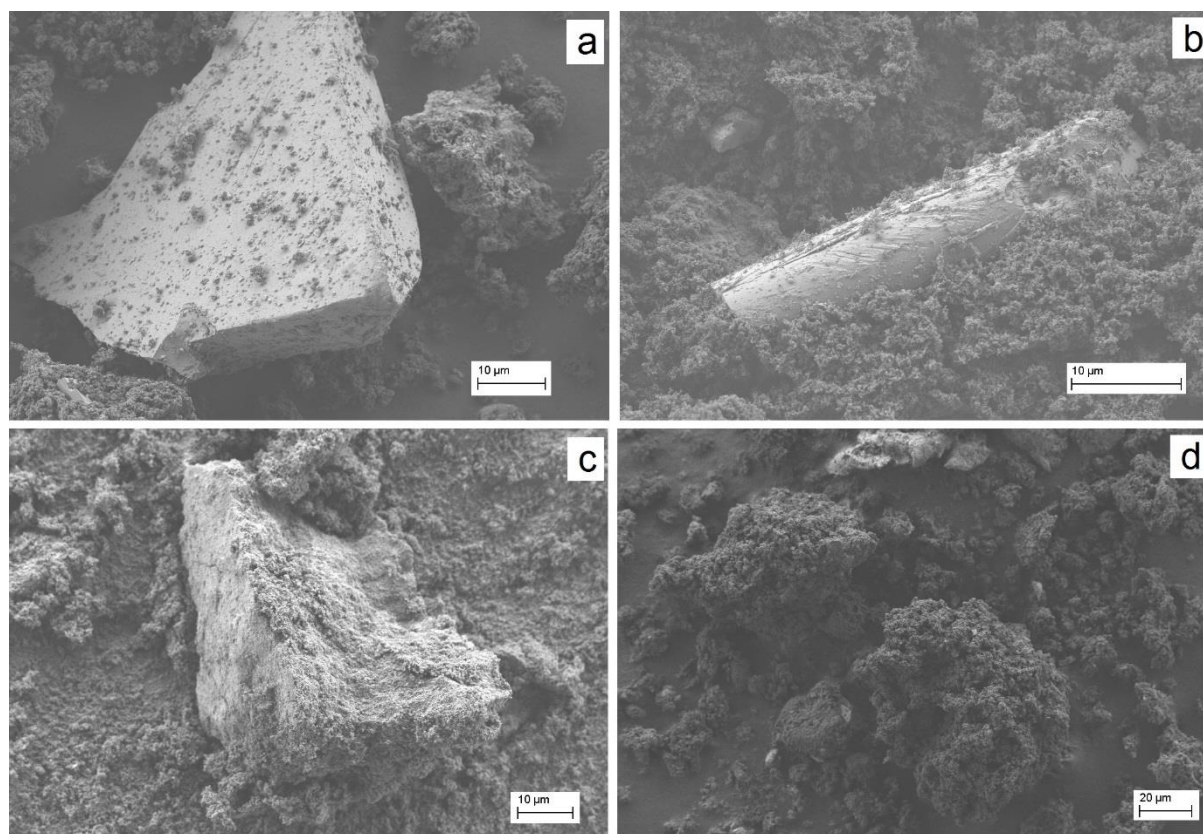


Figure S3. Scanning electron microscopy pictures of the particles emitted by gasoline driven vehicles: (a) HusTE; (b) HonVT; (c) TMar2; (d) MiPaj.

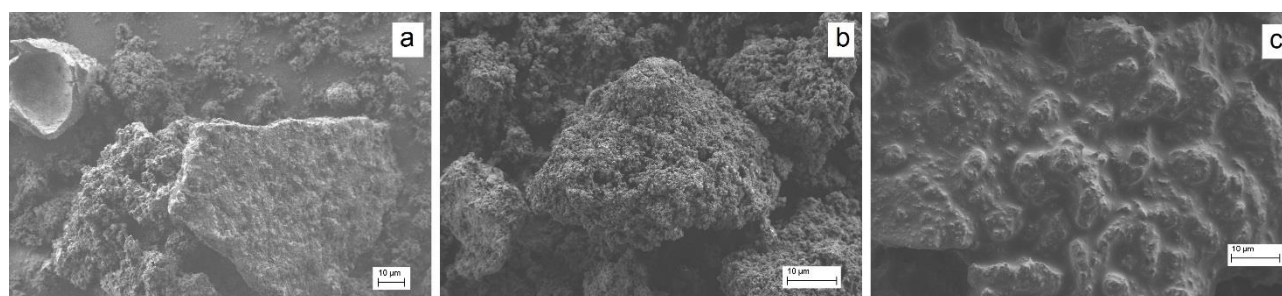


Figure S4. Scanning electron microscopy pictures of the particles emitted by diesel driven vehicles: (a) THi; (b) TLC80; (c) KomPC.

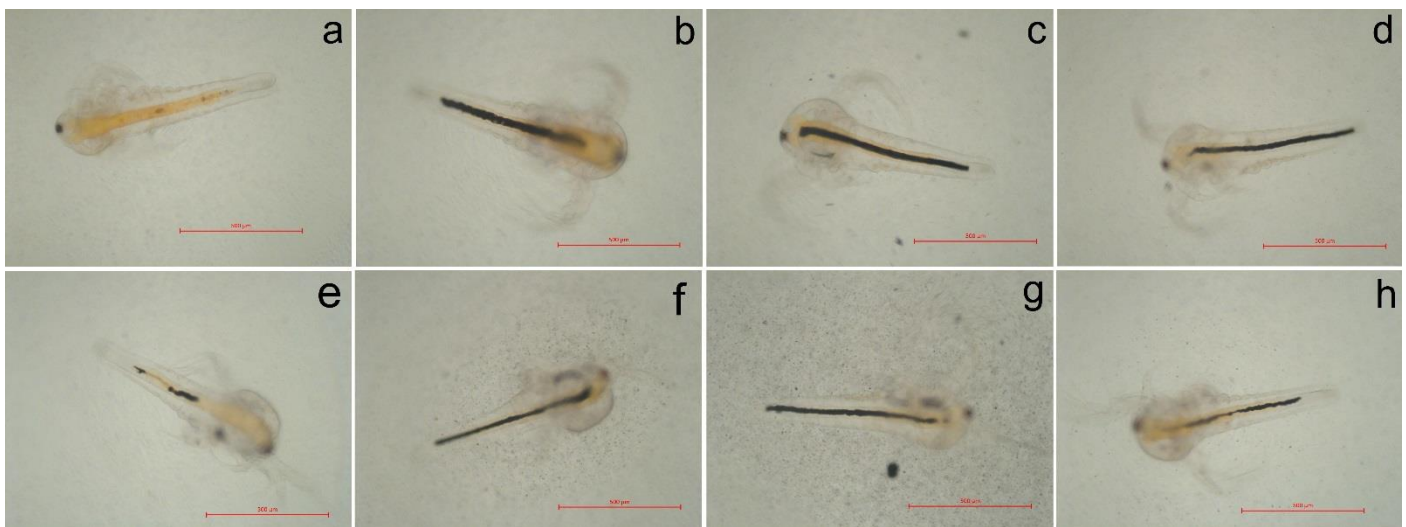


Figure S5. The nauplii of *A. salina* after 96 h of the exposure to the VEPs: (a) control; (b) HusTE; (c) HonVT; (d) TMar2; (e) MiPaj; (f) THi; (g) TLC80; (h) KomPC.

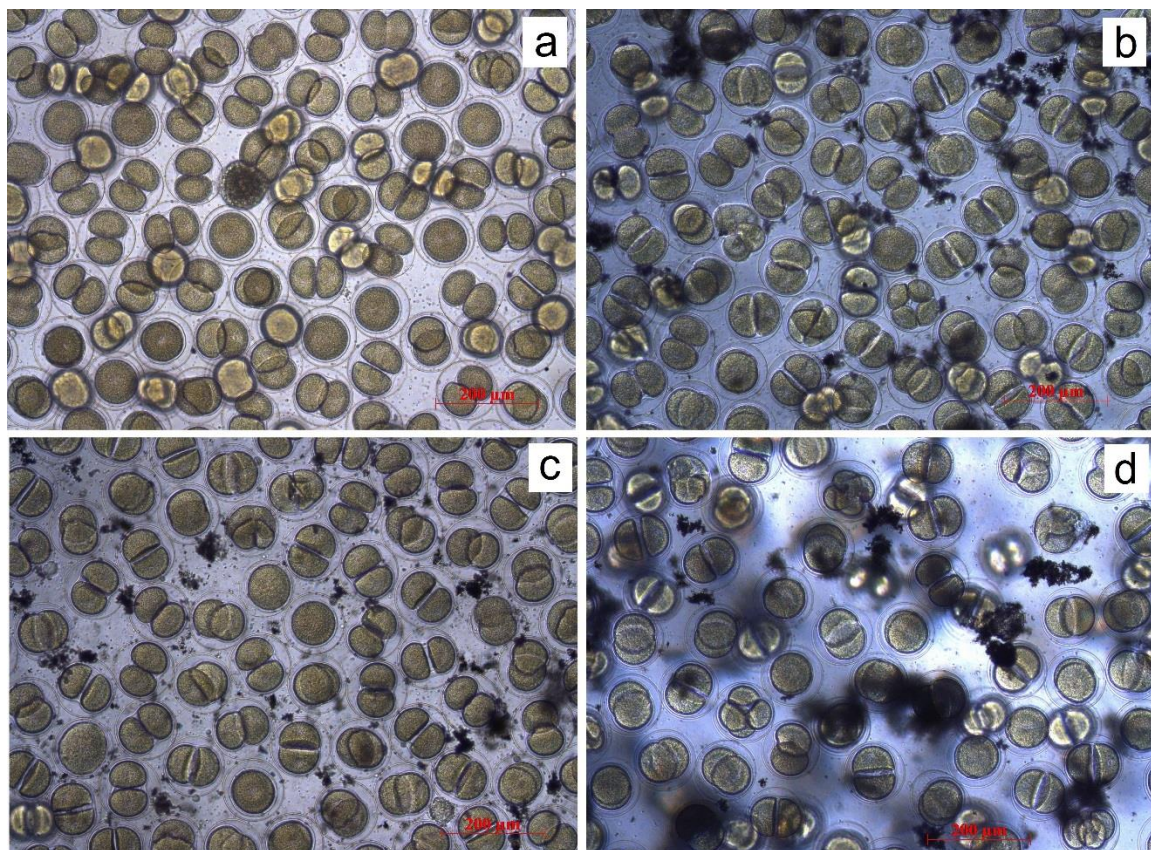


Figure S6. The embryos after the exposure of the eggs of the sea urchin *S. intermedius* to the VEPs: (a) control; (b) THi; (c) TLC80, (d) KomPC.

Table S1. Mean calculated EC50 values of microalgae growth-rate inhibition, mg/L.

Sample	Exposure time		
	24 h	96 h	7 days
<i>A. ussuriensis</i>			
HusTE	n/a	n/a	n/a
HonVT	n/a	n/a	ns
TMar2	325.1 (130.7–554.0)	n/a	ns
MiPaj	n/a	n/a	n/a
THi	59.9 (25.3–75.1)	n/a	n/a
TLC80	ns	ns	21.1 (0.9–76.6)
KomPC	57.0 (24.15–80.34)	43.5 (29.6–57.0)	18.0 (1.2–91.8)
<i>C. muelleri</i>			
HusTE	n/a	n/a	ns
HonVT	n/a	n/a	n/a
TMar2	130.2 (105.0–143.7)	n/a	n/a
MiPaj	n/a	ns	ns
THi	n/a	n/a	n/a
TLC80	n/a	n/a	n/a
KomPC	58.66 (37.4–102.0)	61.8 (30.9–86.8)	39.3 (15.1–54.2)

95% confidence intervals presented in the parentheses; n/a, the growth rate inhibition was registered at the low level, which did not allow to compute the EC50 values; ns, the tested sample had no significant effect on the growth rate of microalgae ($p > 0.05$).