

Supplementary Figures

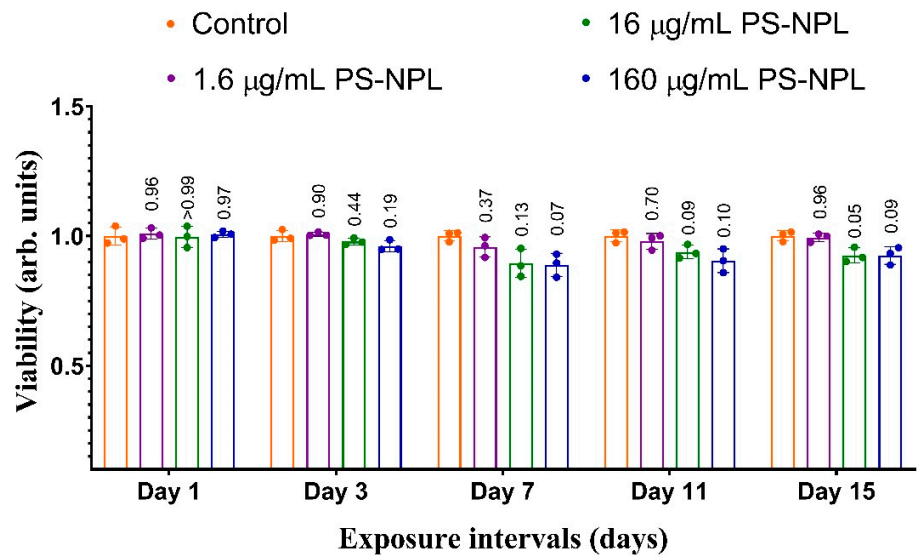


Figure S1. Quantification of cell viability assessed by Trypan Blue exclusion assay after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact *p*-values are provided in the figure.

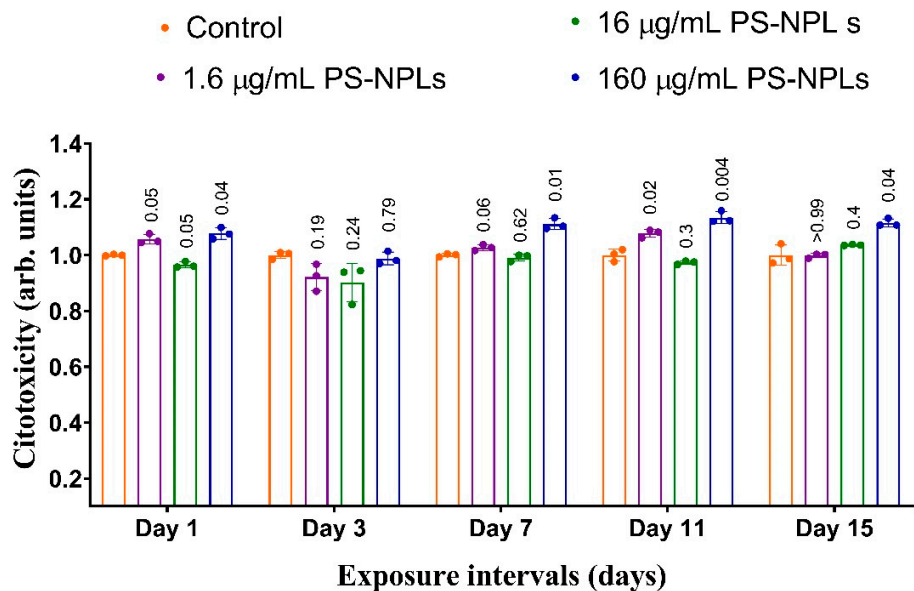


Figure S2. Quantification of cytotoxicity assessed by lactate dehydrogenase (LDH) release in the cell culture supernatant after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact *p*-values are provided in the figure.

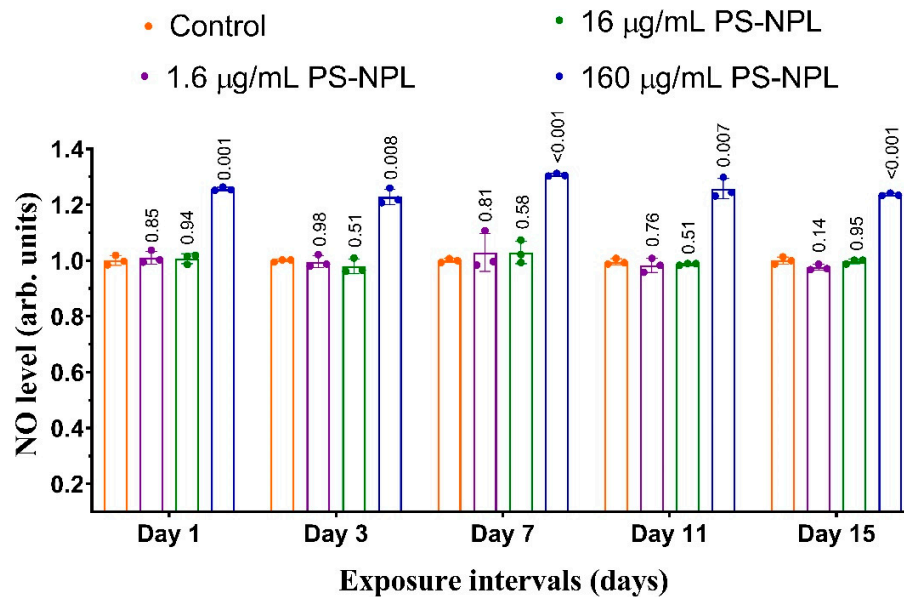


Figure S3. Quantification of nitrite levels as an indicator of nitric oxide (NO) production after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact p-values are provided in the figure.

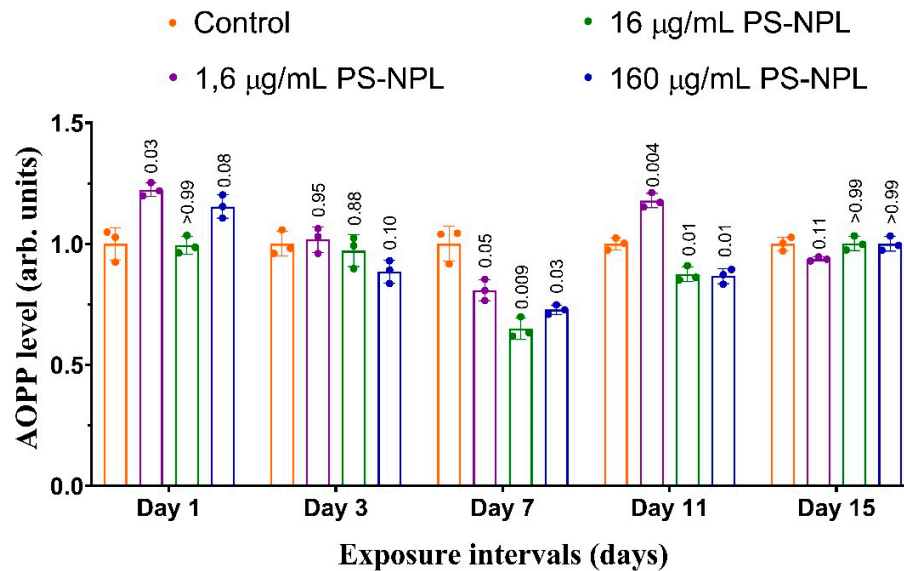


Figure S4. Quantification of advanced oxidation protein products (AOPP) after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact p-values are provided in the figure.

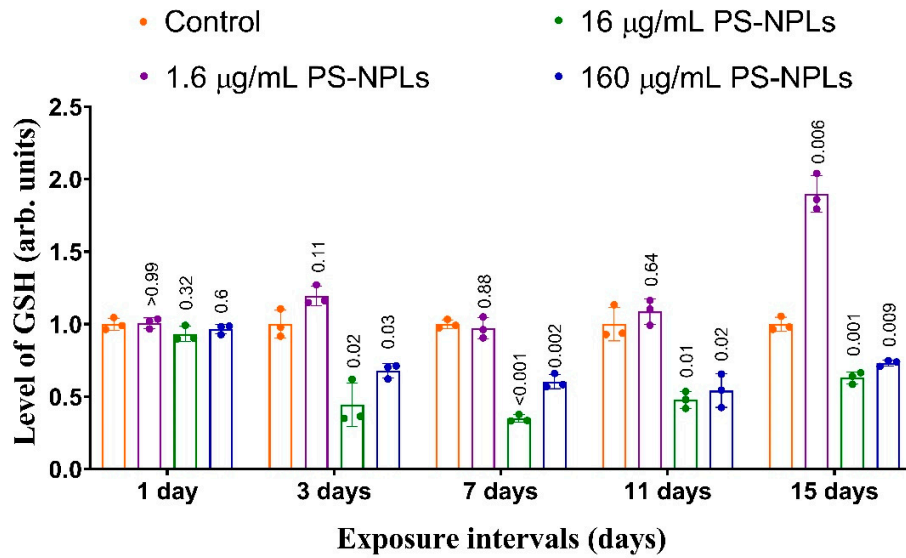


Figure S5. Quantification of reduced glutathione (GSH) levels after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact p-values are provided in the figure.

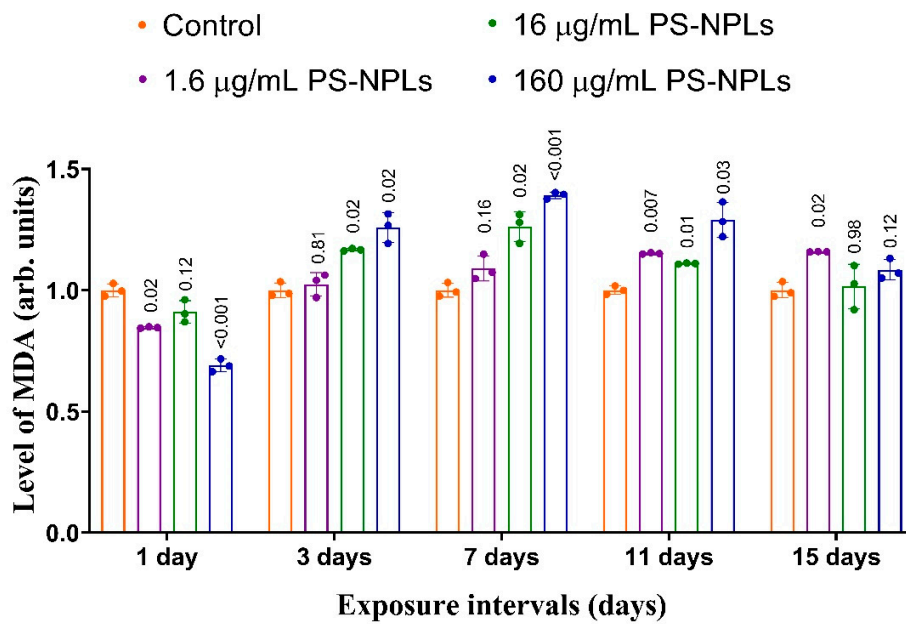


Figure S6. Quantification of malondialdehyde (MDA) levels after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 µg/mL PS-NPLs for 1, 3, 7, 11, and 15 days. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact p-values are provided in the figure.

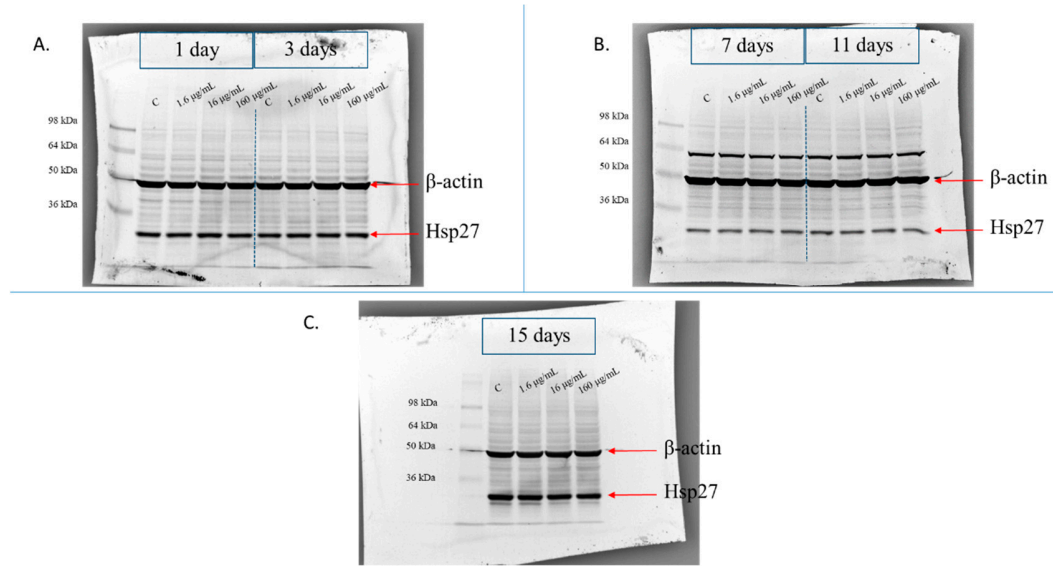


Figure S7. Full-length, uncropped Western blot membranes showing Hsp27 expression and the corresponding β -actin loading control in SVEC4-10 cells after repeated exposure to 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. (A) Representative full-length membrane showing samples collected after 1 and 3 days of exposure. (B) Representative full-length membrane showing samples collected after 7 and 11 days of exposure. (C) Representative full-length membrane showing samples collected after 15 days of exposure. The molecular weight marker is shown on the left side of each membrane. Sample lanes are indicated as C (untreated control), 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. Red arrows indicate the β -actin loading-control bands and the Hsp27 bands used for densitometric analysis.

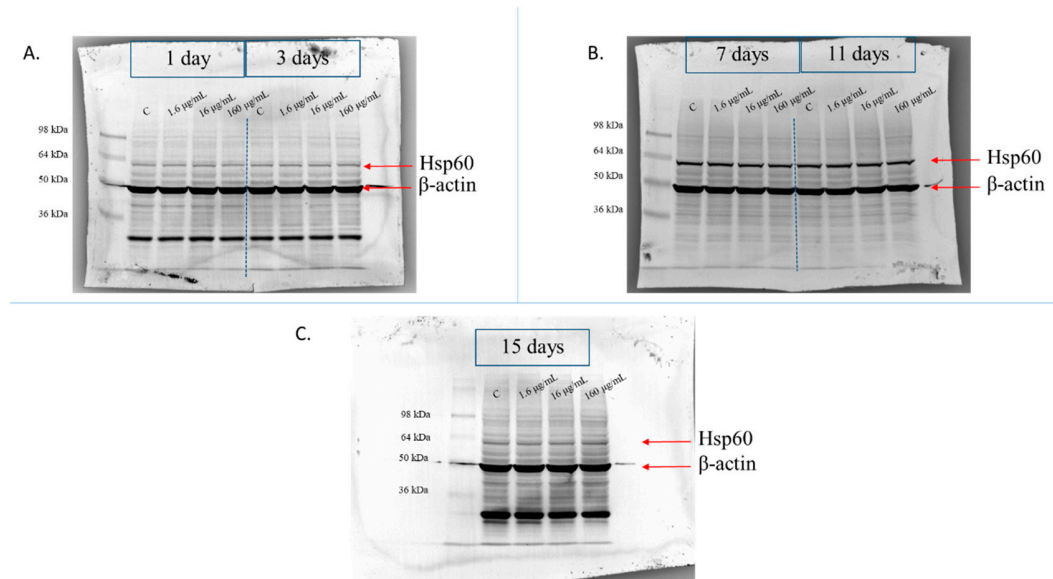


Figure S8. Full-length, uncropped Western blot membranes showing Hsp60 expression and the corresponding β -actin loading control in SVEC4-10 cells after repeated exposure to 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. (A) Representative full-length membrane showing samples collected after 1 and 3 days of exposure. (B) Representative full-length membrane showing samples collected after 7 and 11 days of exposure. (C) Representative full-length membrane showing samples collected after 15 days of exposure. The molecular weight marker is shown on the left side of each membrane. Sample lanes are indicated as C (untreated control), 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. Red arrows indicate the β -actin loading-control bands and the Hsp60 bands used for densitometric analysis.

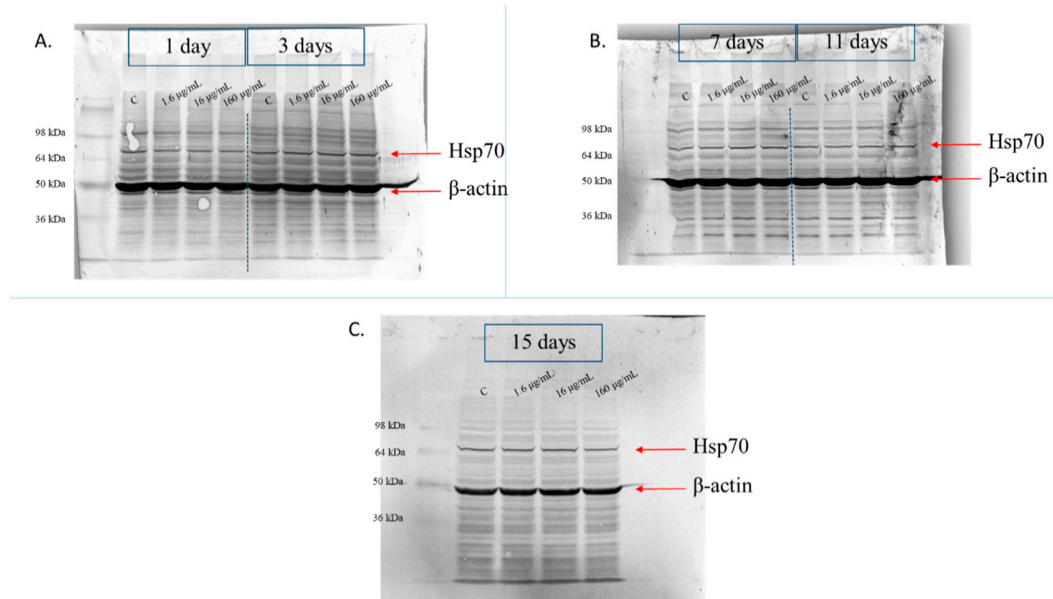


Figure S9. Full-length, uncropped Western blot membranes showing Hsp70 expression and the corresponding β -actin loading control in SVEC4-10 cells after repeated exposure to 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. (A) Representative full-length membrane showing samples collected after 1 and 3 days of exposure. (B) Representative full-length membrane showing samples collected after 7 and 11 days of exposure. (C) Representative full-length membrane showing samples collected after 15 days of exposure. The molecular weight marker is shown on the left side of each membrane. Sample lanes are indicated as C (untreated control), 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. Red arrows indicate the β -actin loading-control bands and the Hsp70 bands used for densitometric analysis.

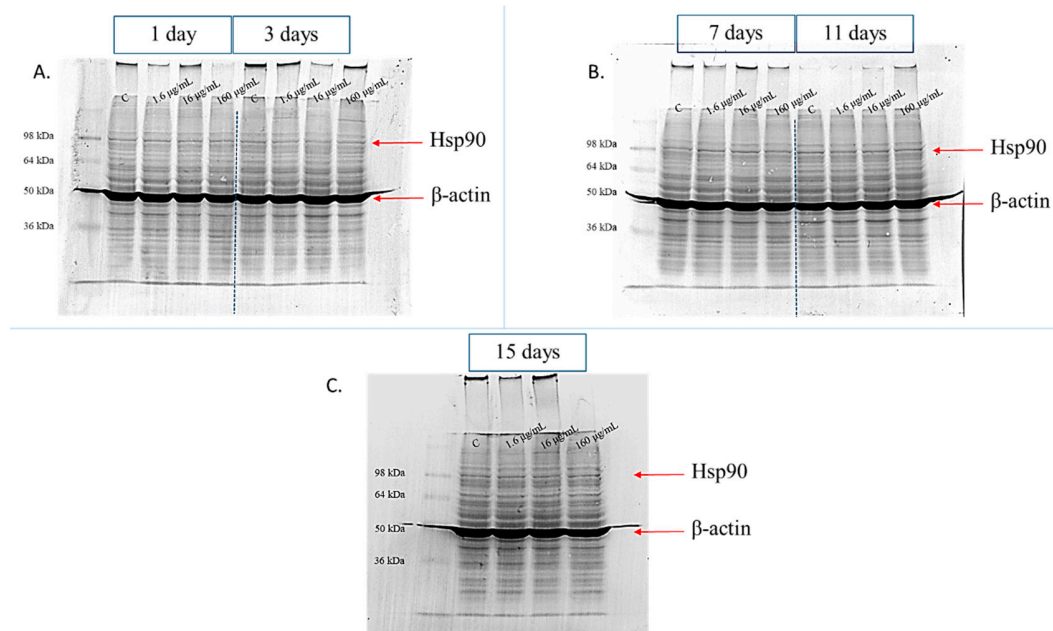


Figure S10. Full-length, uncropped Western blot membranes showing Hsp90 expression and the corresponding β -actin loading control in SVEC4-10 cells after repeated exposure to 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. (A) Representative full-length membrane showing samples collected after 1 and 3 days of exposure. (B) Representative full-length membrane showing samples collected after 7 and 11 days of exposure. (C) Representative

full-length membrane showing samples collected after 15 days of exposure. The molecular weight marker is shown on the left side of each membrane. Sample lanes are indicated as C (untreated control), 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs. Red arrows indicate the β -actin loading-control bands and the Hsp90 bands used for densitometric analysis.

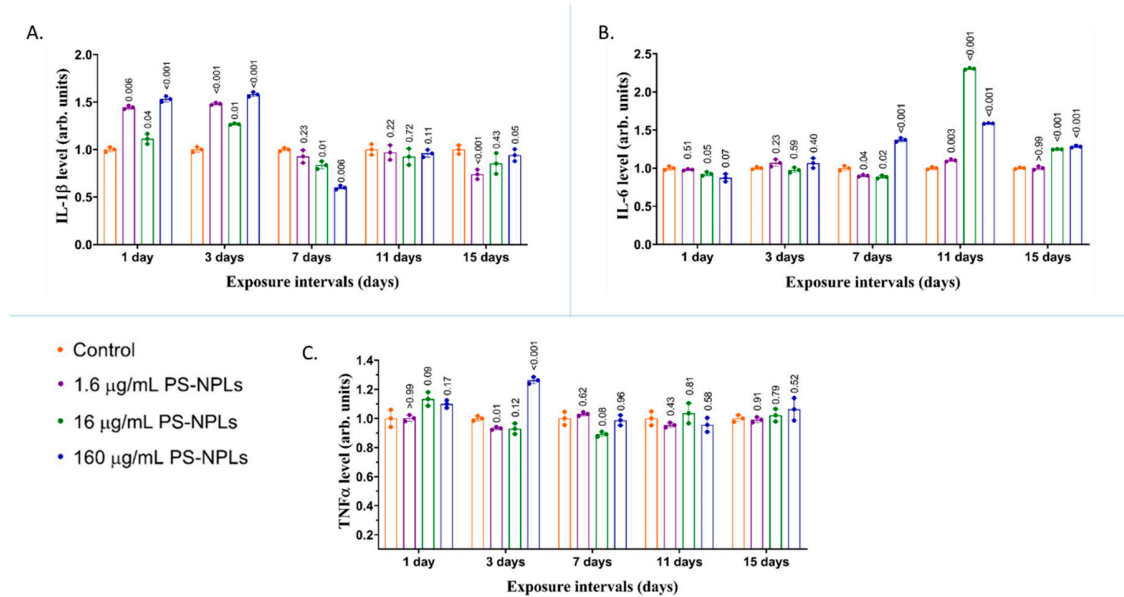


Figure S11. Quantification of inflammatory cytokines after repeated exposure of SVEC4-10 cells to 1.6, 16, and 160 $\mu\text{g/mL}$ PS-NPLs for 1, 3, 7, 11, and 15 days. (A) Interleukin-1 β (IL-1 β), (B) interleukin-6 (IL-6), and (C) tumor necrosis factor- α (TNF- α) levels measured by ELISA in the cell culture supernatants. Data are presented as absolute values, with individual data points and mean $\pm$ standard deviation (SD). Statistical comparisons were performed between each PS-NPL treatment concentration and the corresponding untreated control at each experimental time point. Exact p-values are provided in the figure.