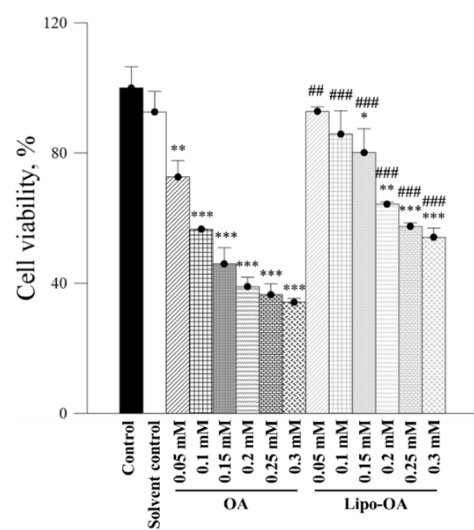
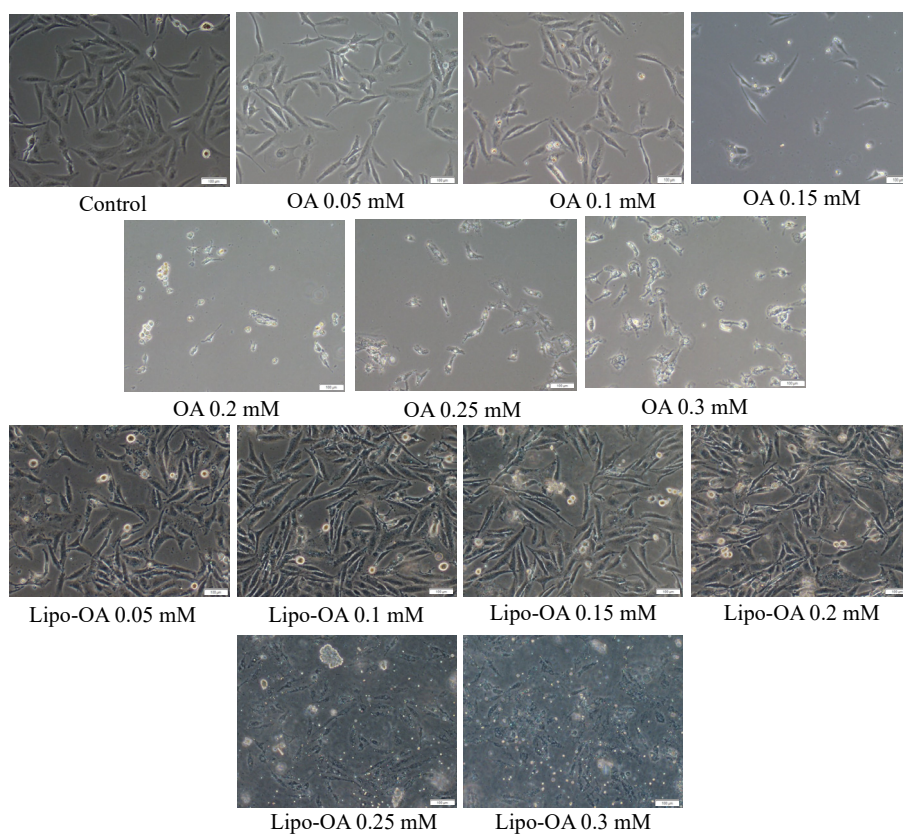


Supplement figures

a



b



c

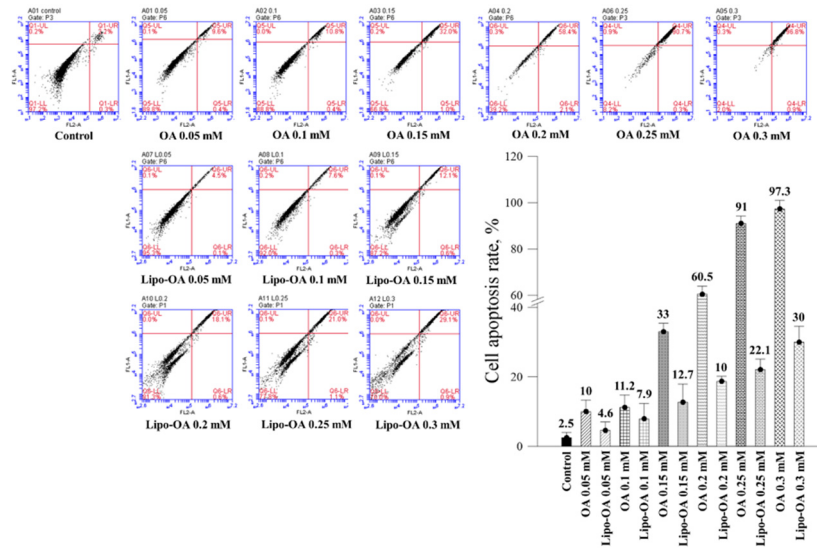


Figure S1. (a) MTT assay for OA and Lipo-OAs cytotoxicity. (b) Effects on LX-2 cell morphology monitored through light microscopy (magnification, 100×). (c) Flow cytometry assay for apoptosis in LX-2 cells treated with OA and Lipo-OAs at various concentrations. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ compared with control group. ## $p < 0.01$, ### $p < 0.001$ compared with OA. Solvent control: DMSO solution that used to dissolve OA.

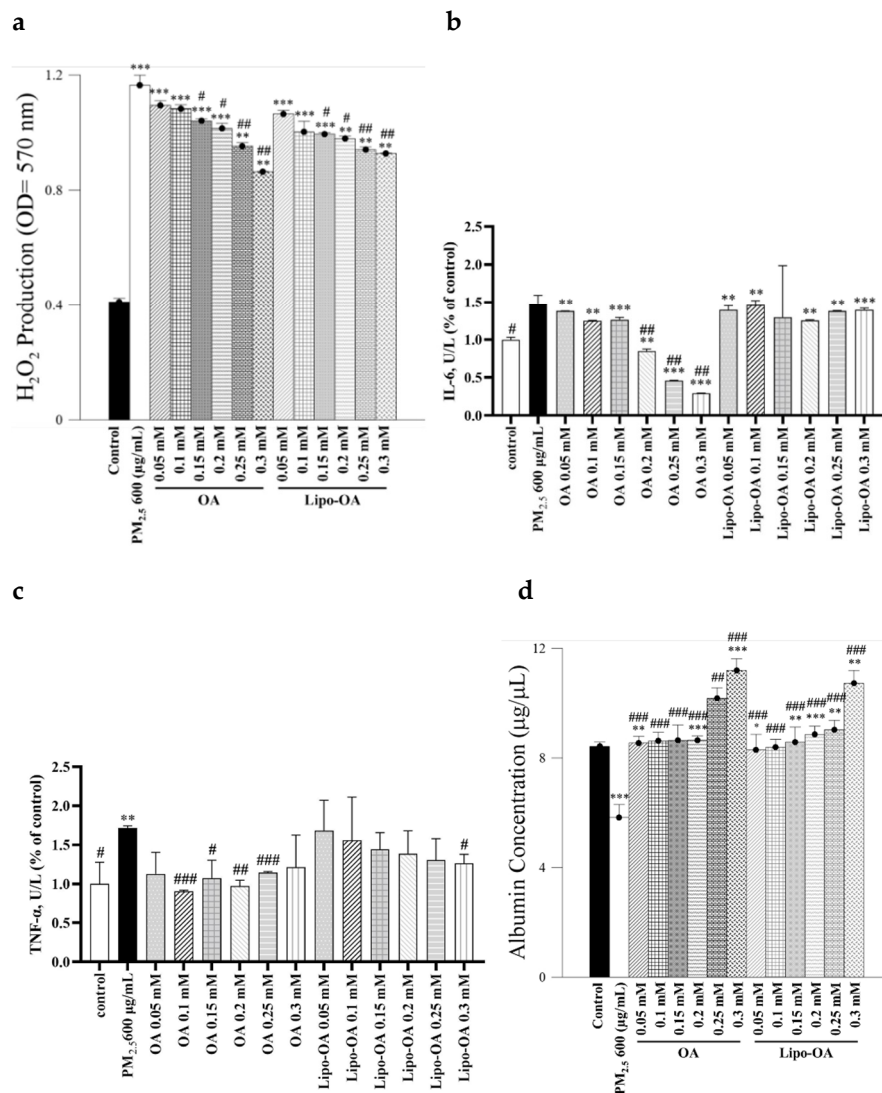
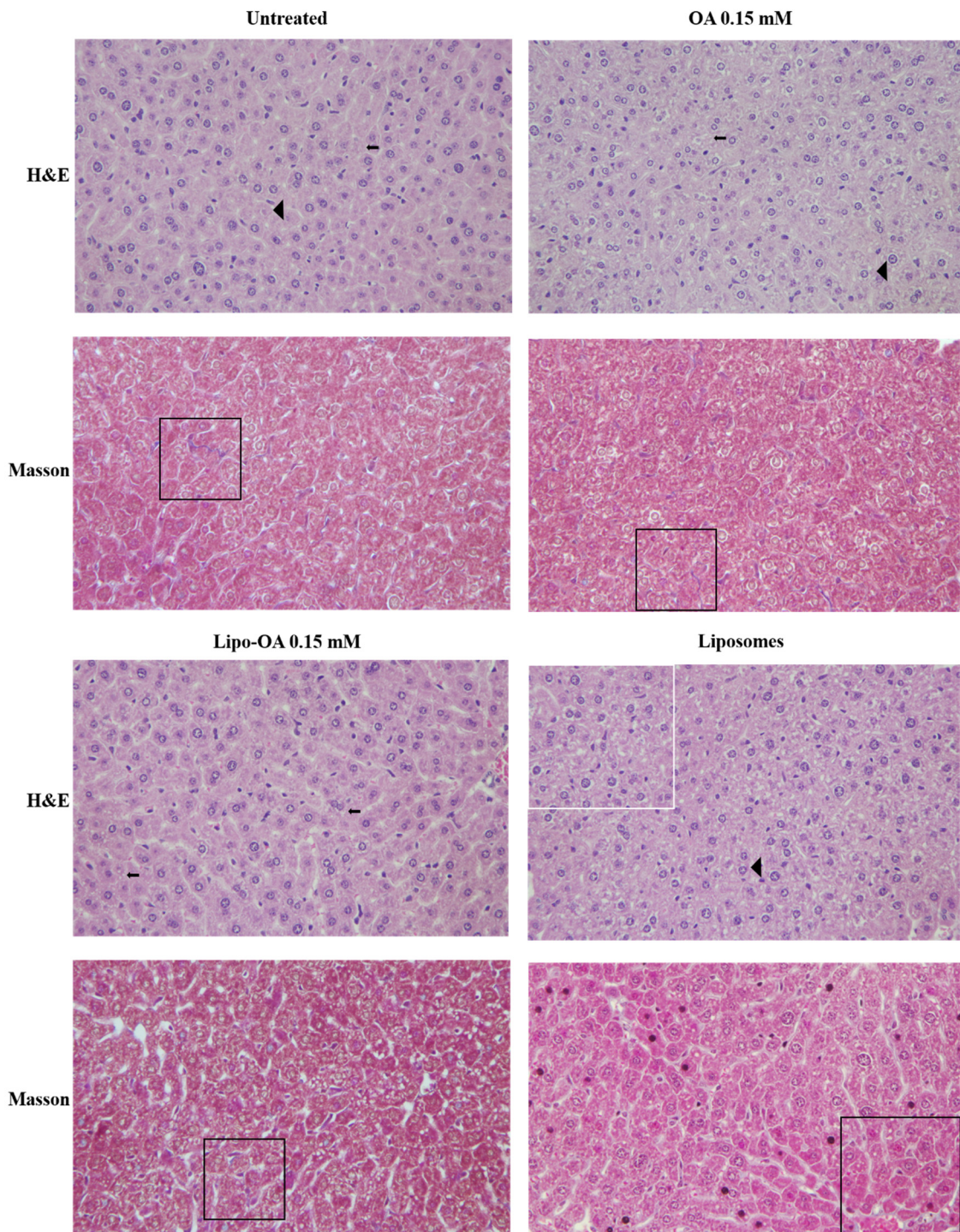


Figure S2. (a) Assessment of H₂O₂ scavenging activity. (b) IL-6 and (c) TNF-α response of LX-2 cells treated with PM_{2.5} at various concentrations. (d) Albumin secretion by LX-2 cells with PM_{2.5}-induced inflammation after treatment with OA and Lipo-OAs at various concentrations. *p<0.05, **p<0.01, p***<0.001 compared with control group; # p<0.05, ##p<0.01, ###p<0.001 compared with PM_{2.5} 600 μg/mL group.

a



b

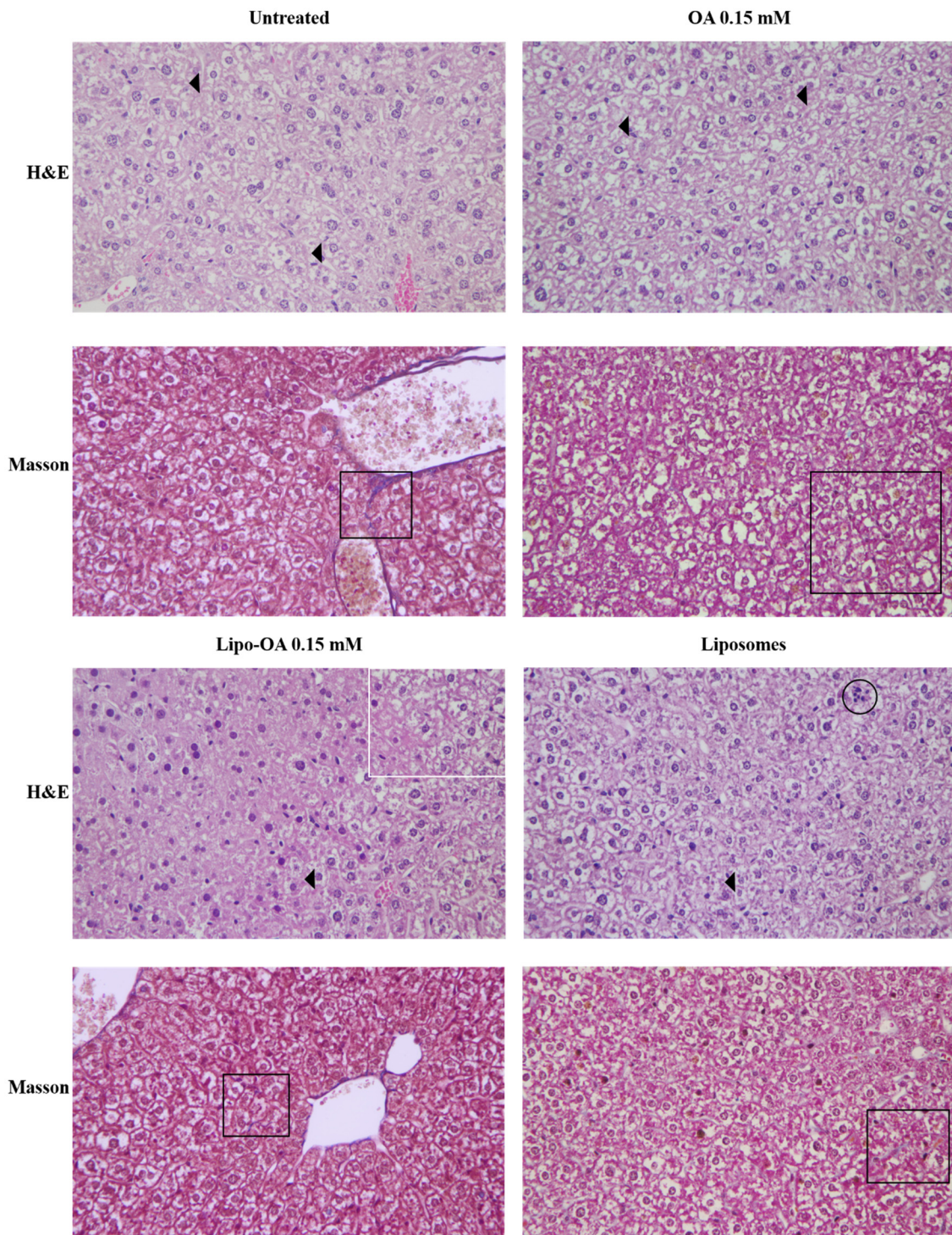
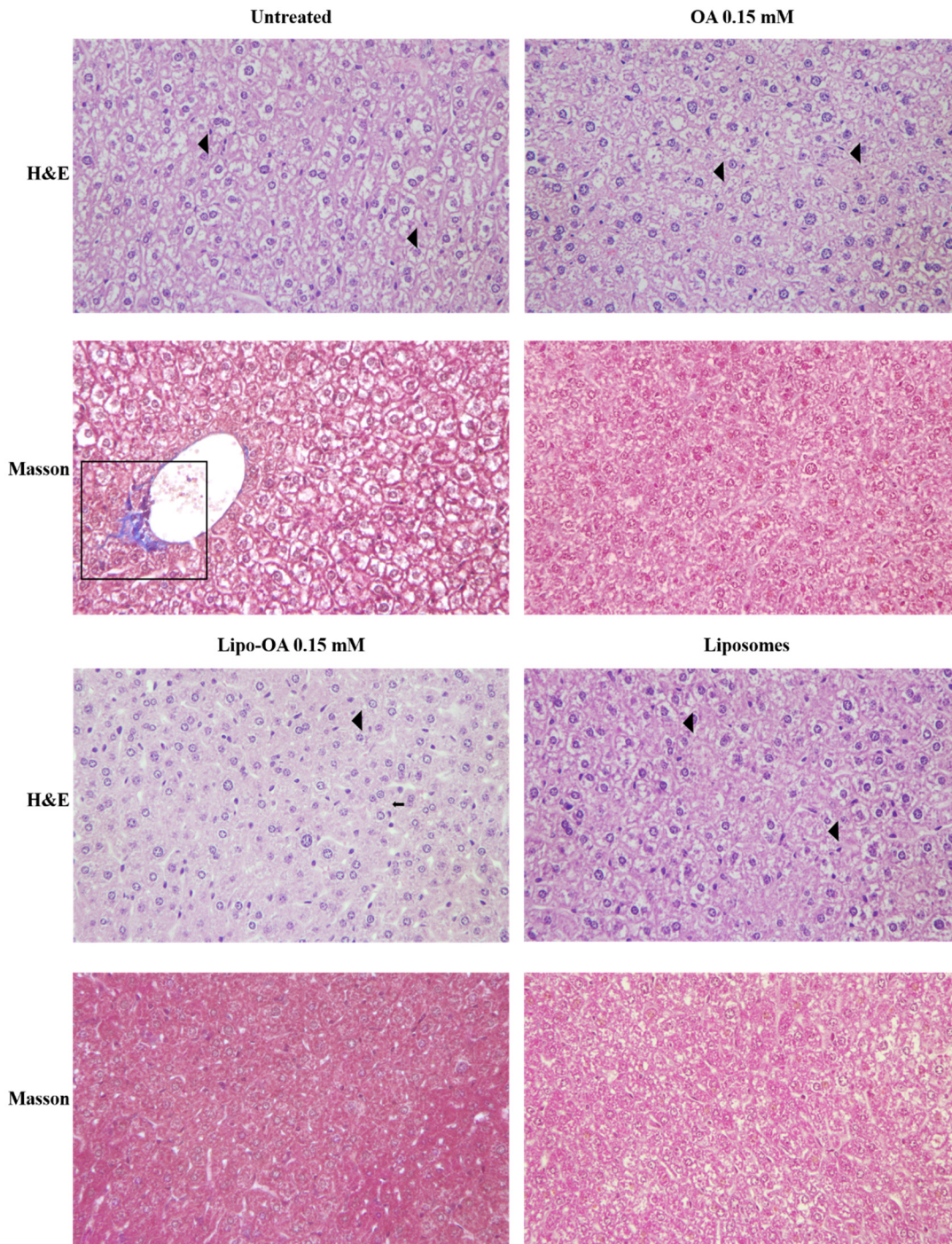


Figure S3. Hematoxylin and eosin (H&E) staining and Masson's trichrome staining of the sections of PM_{2.5}-induced inflammation liver treated with OA, Lipo-OAs, or pure liposomes (magnification, 200×): (a) after 4 treatment weeks, and (b) after 6 treatment weeks. The geometric figure was the representative area of: Patchy steatosis (white box), steatosis (black arrow), Mallory bodies and ballooning cells (black arrowhead), necrosis (black circle), single-cell apoptosis (black triangle), and pericellular fibrosis (black box).

a



b

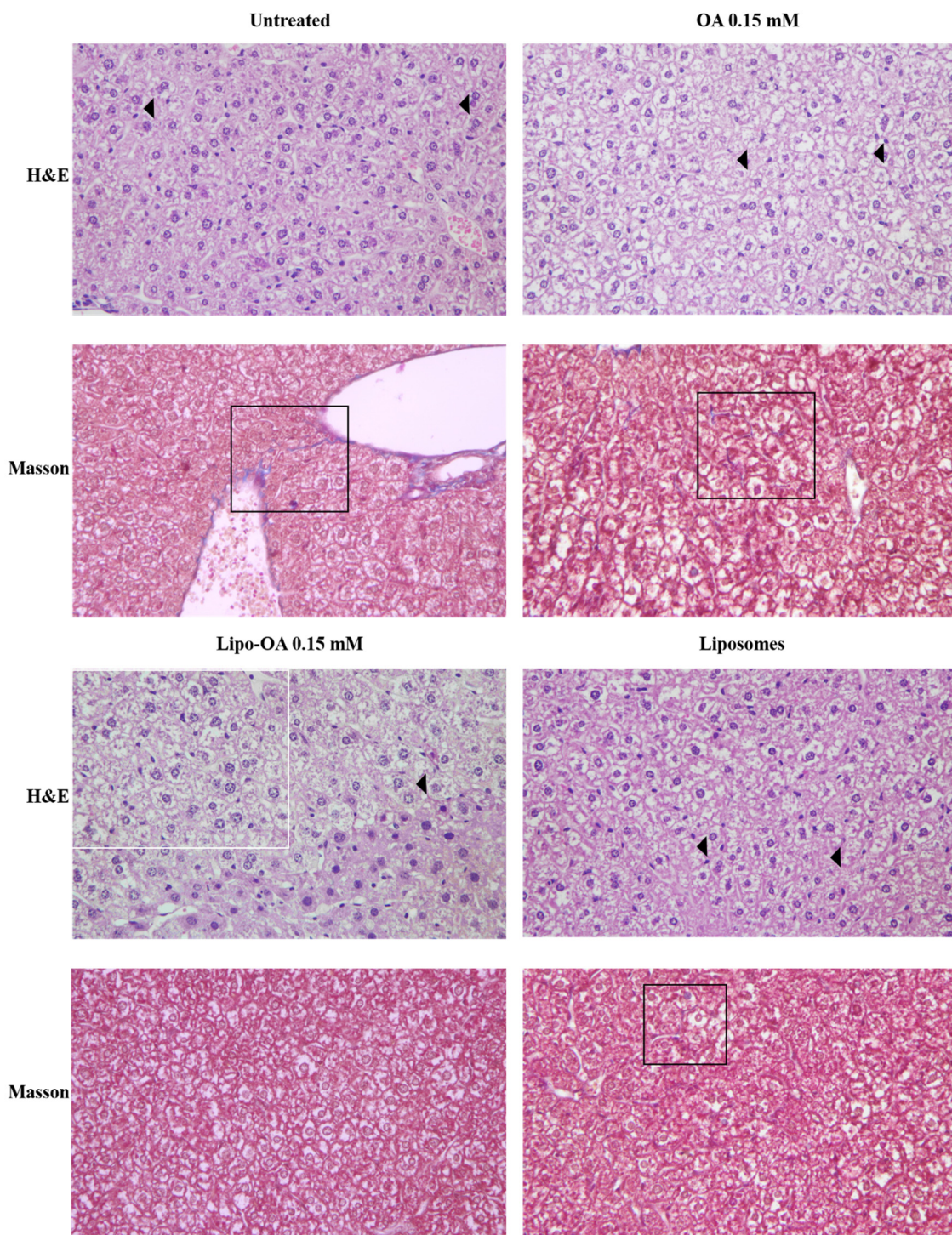


Figure S4. H&E staining and Masson's trichrome staining of the sections of PM_{2.5} and alcohol-induced inflammation liver treated with OA, Lipo-OAs, or pure liposomes (magnification, 200×): after (a) 4 and (b) 6 treatment weeks. The geometric figure was the representative area of: Patchy steatosis (white box), steatosis (black arrow), Mallory bodies and ballooning cells (black arrowhead), necrosis (black circle), single-cell apoptosis (black triangle), and pericellular fibrosis (black box).