At the top Histological cuts of abdominal aorta, Hematoxilin-eosin stain (400x) (A and B) EPA:DHA 1:1 in Wistar rat and SHROB rat respectively. We can observe the wall of aorta with the muscular cells nucleus and intuit elastic bands. As we can see SHROB rats presents a nuclei hypertrophy of aortic muscle cells than Wistar rats aortic muscle cells. When there was a nuclear hypertrophy of aortic muscle cells, the size of the cells increased and, consequently, the density decreased and the elastic layers were less wrinkled. This indicates a decreased health status.

At the bottom four graphics (C) The different treatments did not affect the thickness of the aortic wall in either Wistar or SHROB rats. The same letters in different strains mean significant statistical differences. p = 0.023*, p<0.001*. (D) In aortic lumen area there were no differences between Wistar and SHROB for any treatment or among treatments in each strain. This indicates that the portion of aorta was taken from the same zone, which enables results to be compared. (F) Wrinkling was significantly higher in Wistar than SHROB for the EPA:DHA 2:1, EPA:DHA 1:2 treatments (p=0.002* and p=0.002* respectively). The same letters mean significant statistical differences in different strains. (G) SHROB rats showed less density than Wistar without significant differences. In SHROB rats group the best value was given by EPA:DHA 1:1 treatment.