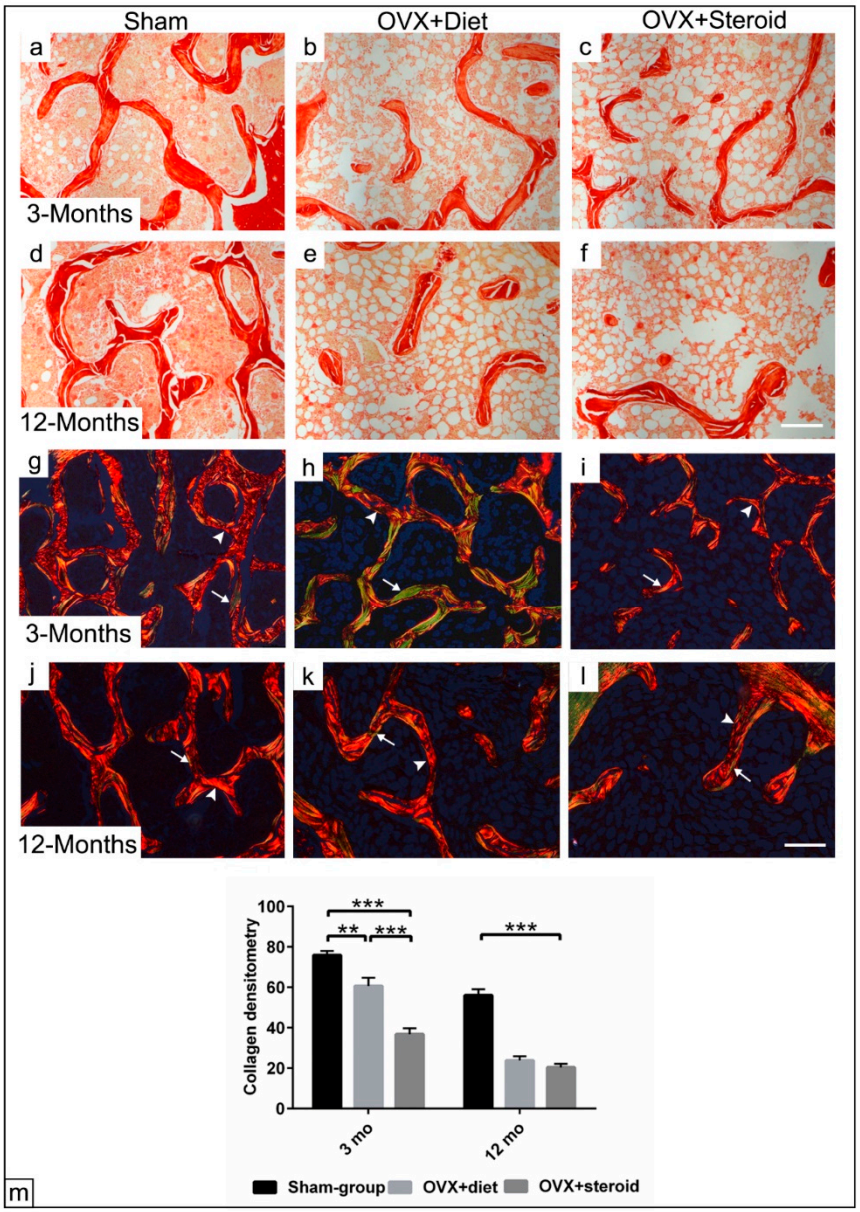
anatomia

Supplementary Materials:

Morphological and Immunohistochemical Characterization of Bone Structure and Cell–Cell Communication in a Rat Osteoporosis Model



Suuplementary Figure S1. (**a**—**l**) Micrographs show collagen staining of rat lumber 4 (L4) trabeculae of sham, OVX+diet, and OVX+steroid after 3 and 12 months post osteoporosis induction ($n = 6$ per time point). Non-calcified L4 bodies were processed for paraffin embedding and 10 µm sections were stained with Picrosirrus red staining for one hour. (**a**—**f**) Light microscope micrographs show collagen stained (red) trabeculae. (**g**—**l**) Polarized microscope micrographs demonstrate the distribution of collagen type I (red, arrow head) and collagen type III (green, arrow). (**m**) Quantification of collagen densities show marked reduction of the collagen density in OVX+diet, and OVX+steroid compared to sham-group at 3 and 12 months. All data are presented as the mean ± SD. Scale bar = 100 µm. **= $p < 0.01$ and *** = $p < 0.001$.