

Figure S4. CellPhoneDB analysis of cell-cell interaction in young and old hepatic vascular niche.

- (A) Cell-cell interaction analysis between Aged EC and other ECs in the old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (B) Up-regulated cell-cell interaction between Hepatocyte and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (C) Cell-cell interaction analysis between Proinfla.EC and indicated ECs in the old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (D) Up-regulated cell-cell interaction between Capillary1 and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (E) Up-regulated cell-cell interaction between Capillary2 and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (F) Up-regulated cell-cell interaction between Vein and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (G) Up-regulated cell-cell interaction between Artery and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (H) Up-regulated cell-cell interaction between Prolife.EC and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.
- (I) Up-regulated cell-cell interaction between Angio.EC and indicated ECs in old hepatic vascular niche. Ligand–receptor pairs are labeled in x-axis. P values are indicated by the circle sizes while different colors represent different expression levels of ligands and receptors. We carried out the mRNA assay to extrapolate protein interactions.