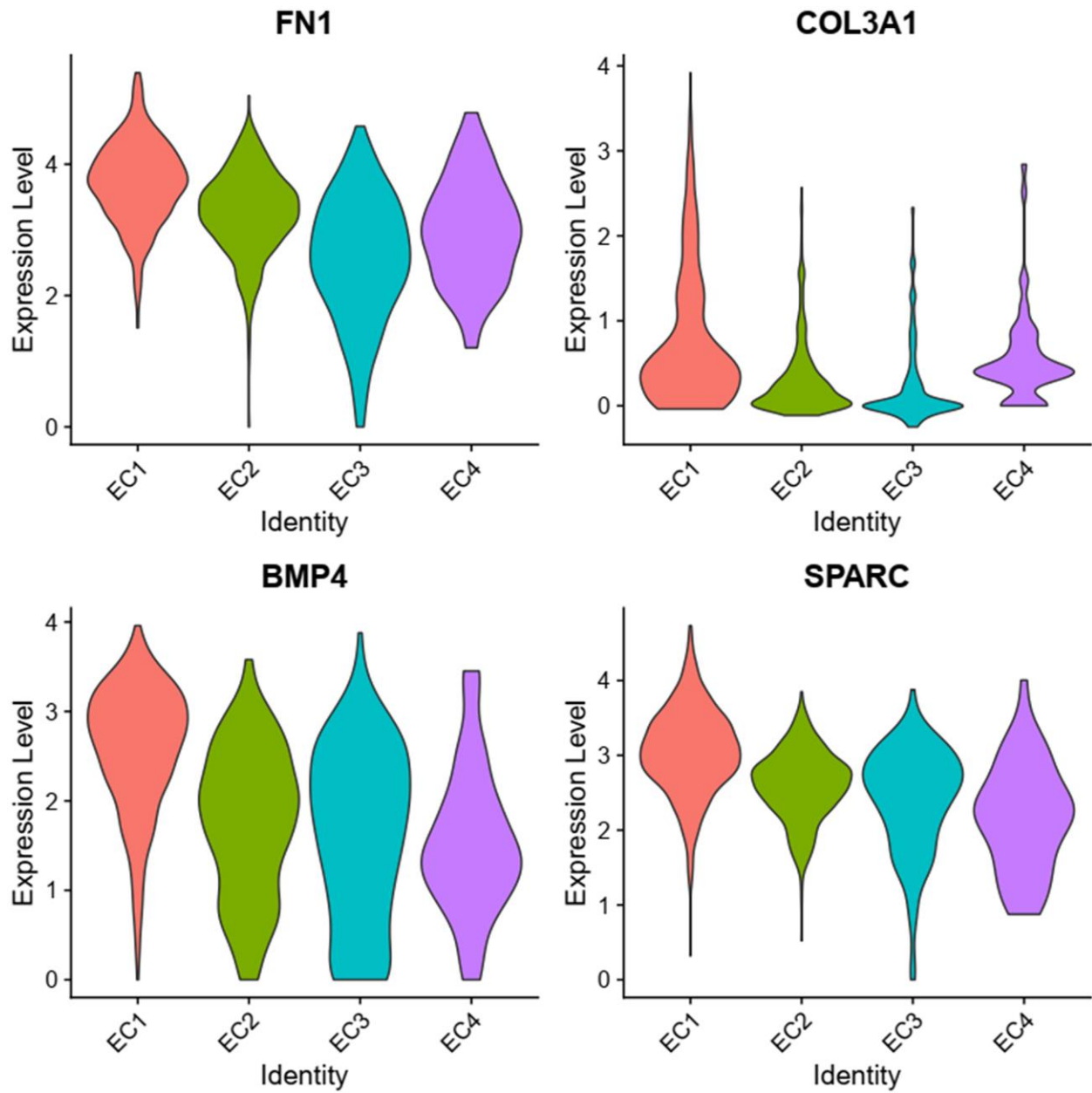
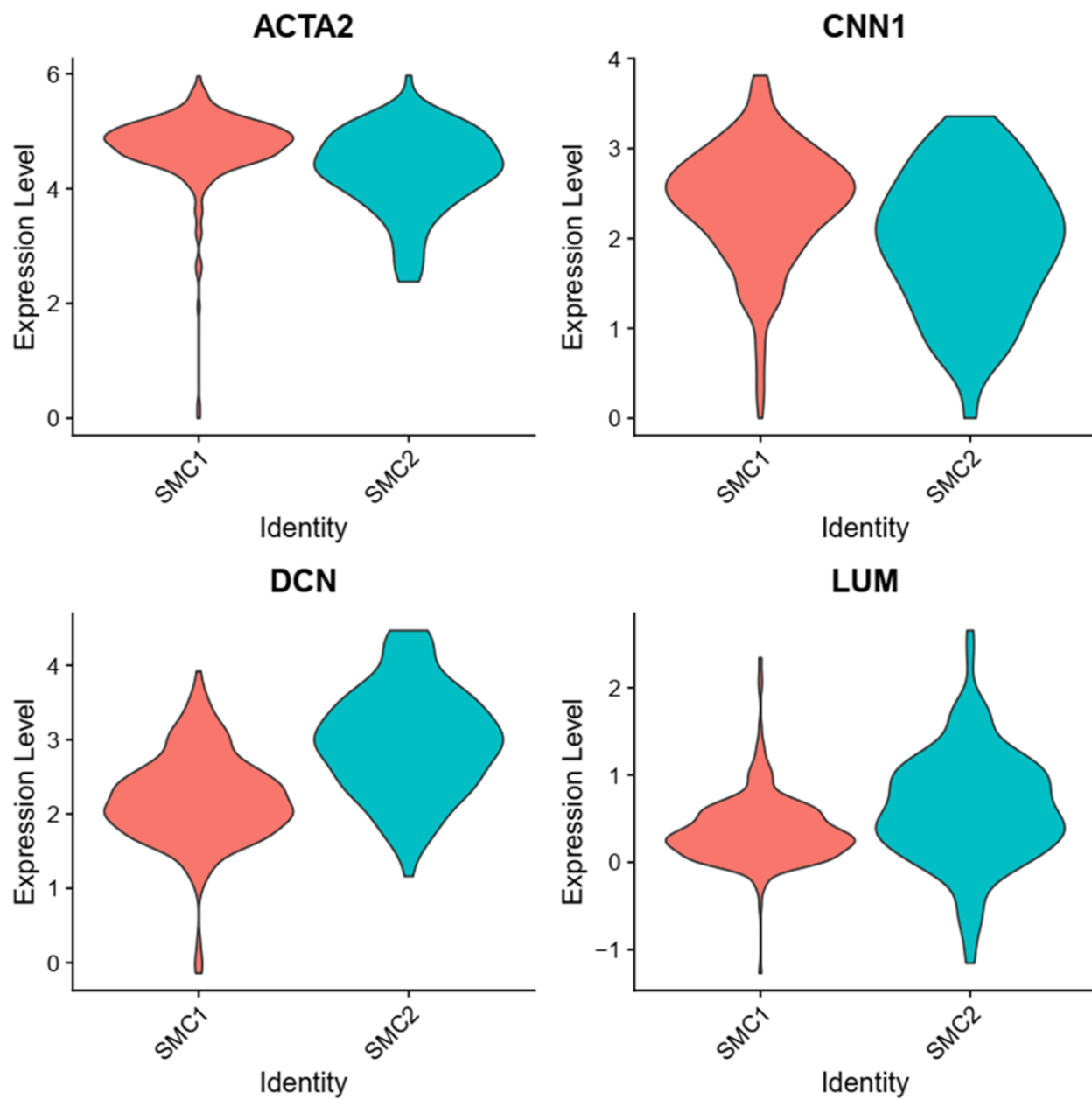


SUPPLEMENTARY FIGURES

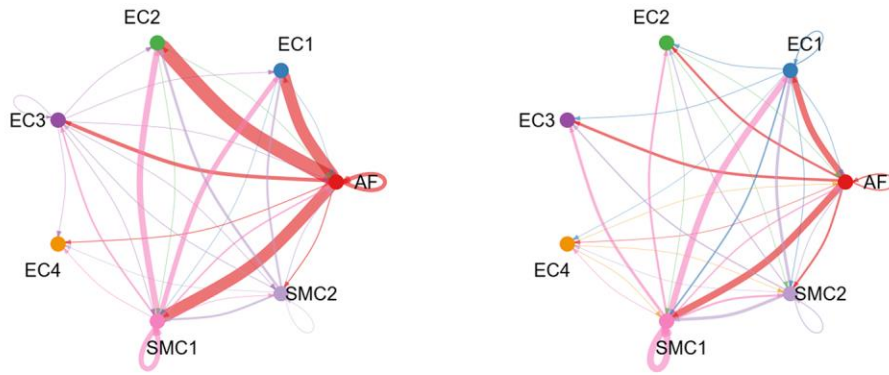


Supplementary Figure 1. The expression of FN1, COL3A1, BMP4 and SPARC in EC subpopulations.



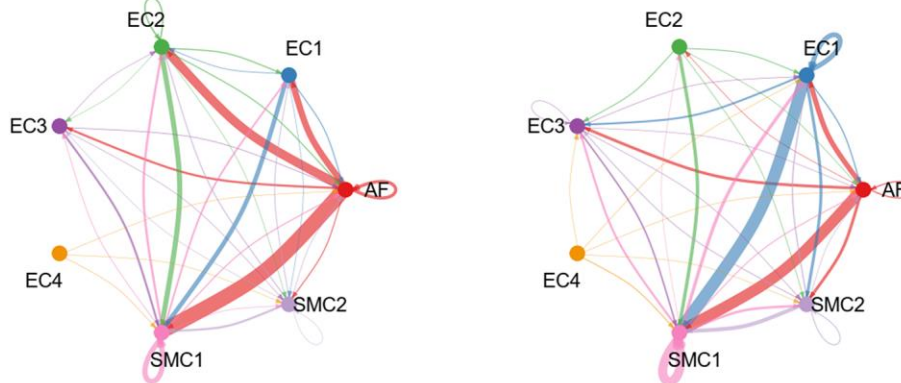
Supplementary Figure 2. The expression of ACTA2, CNN1, DCN and LUM in SMC subpopulations.

COLLAGEN young signaling pathway network COLLAGEN old signaling pathway network



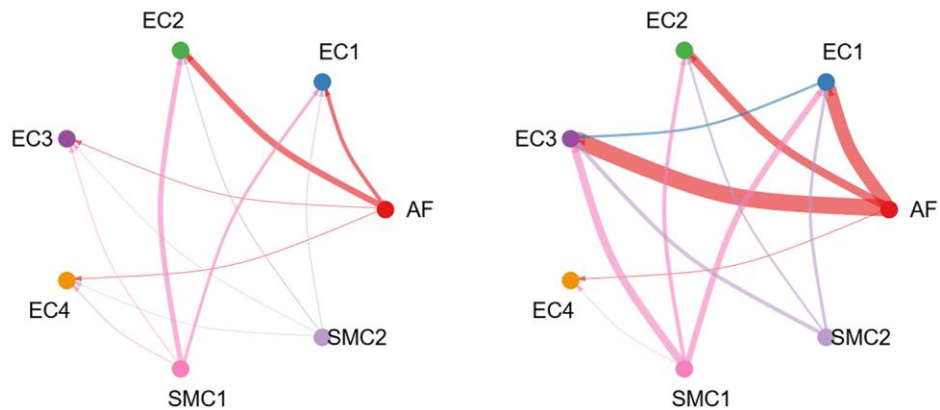
LAMININ young signaling pathway network

LAMININ old signaling pathway network

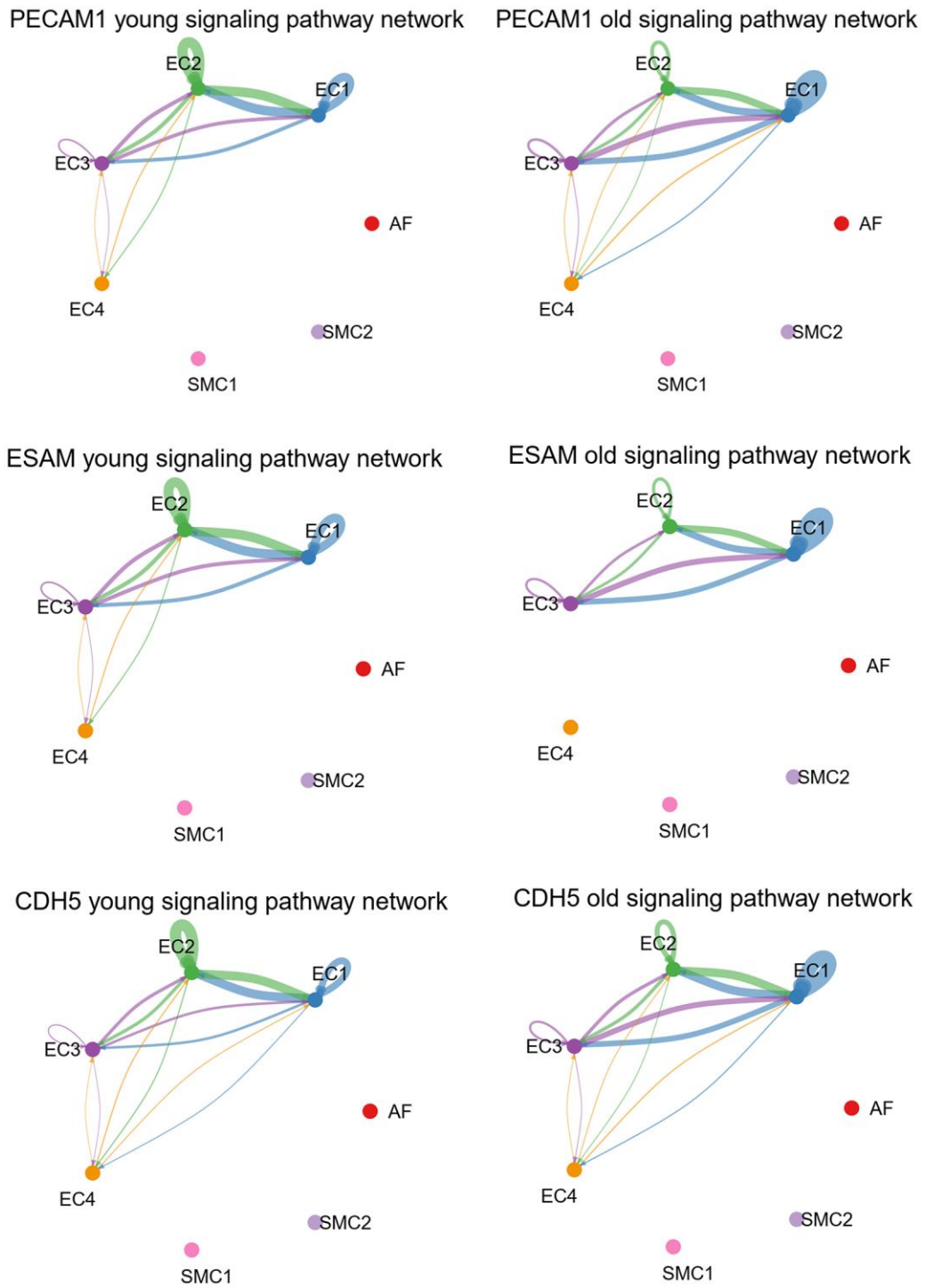


VEGF young signaling pathway network

VEGF old signaling pathway network

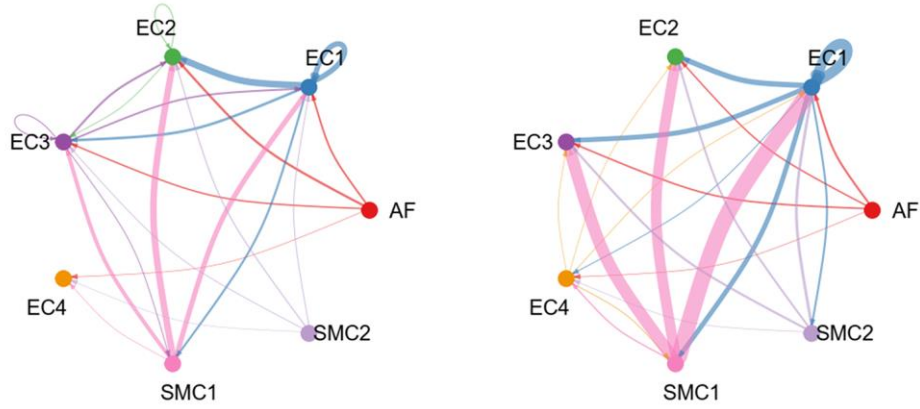


Supplementary Figure 3. Circle plot of signaling pathways that altered in AFs.

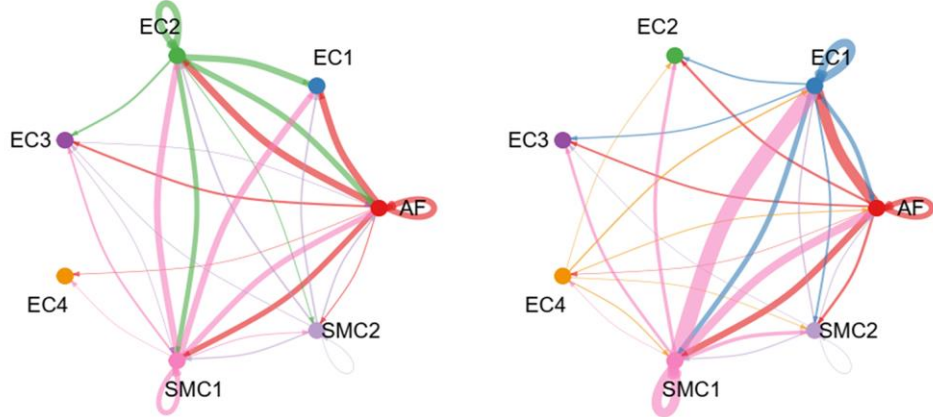


Supplementary Figure 4. Circle plot of signaling pathways that altered in ECs.

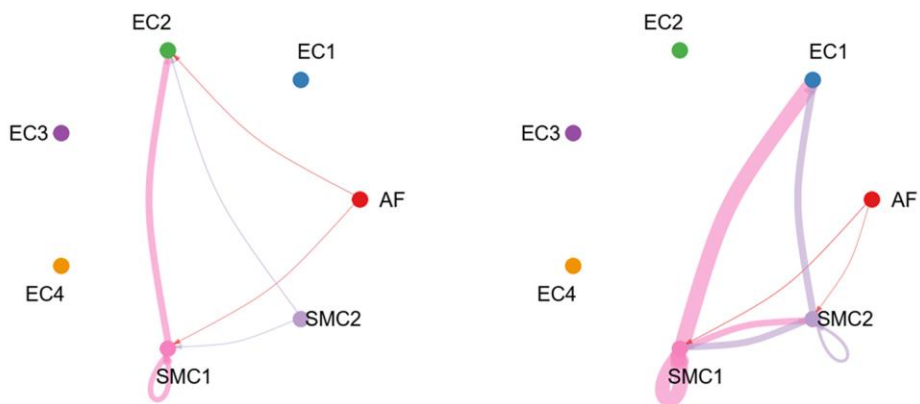
ANGPT young signaling pathway network ANGPT old signaling pathway network



THBS young signaling pathway network THBS old signaling pathway network

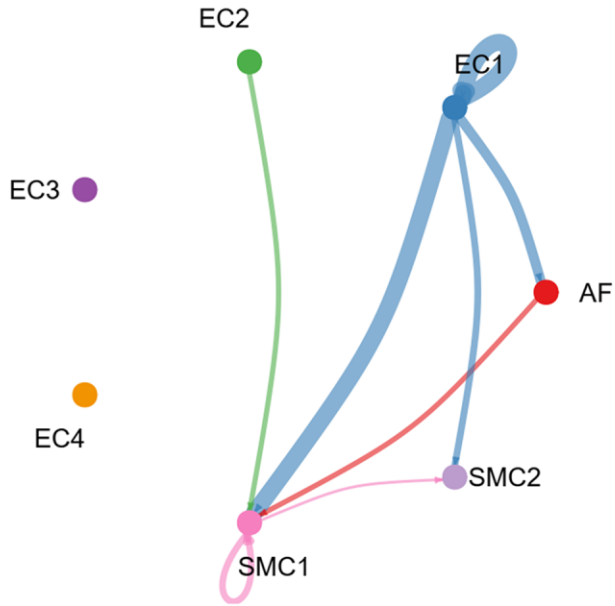


CSPG4 young signaling pathway network CSPG4 old signaling pathway network

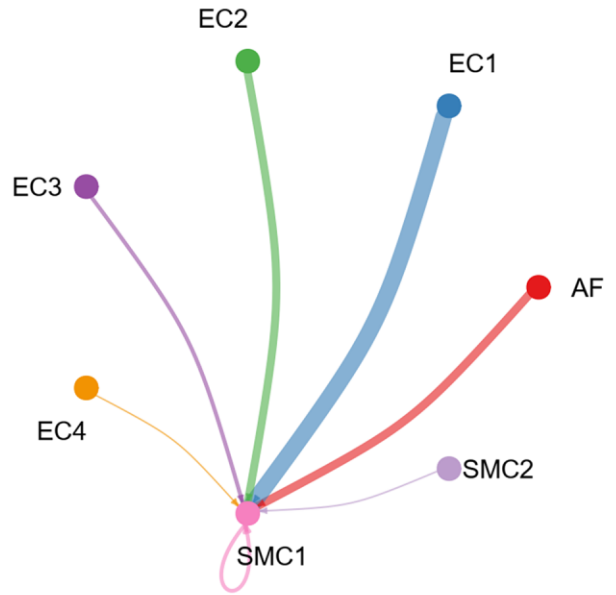


Supplementary Figure 5. Circle plot of signaling pathways that altered in SMCs.

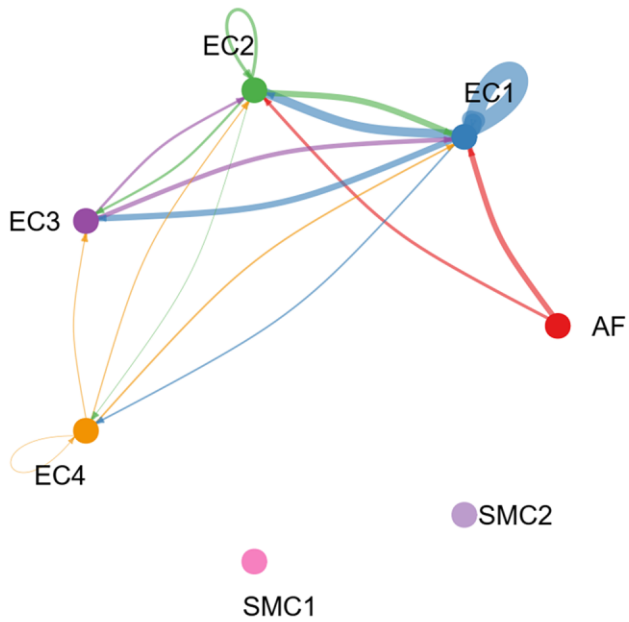
BSP signaling pathway network



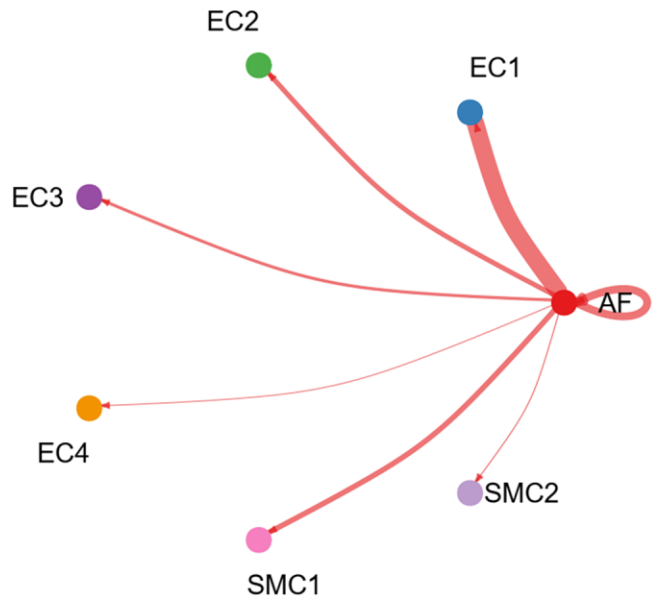
CHEMERIN signaling pathway network



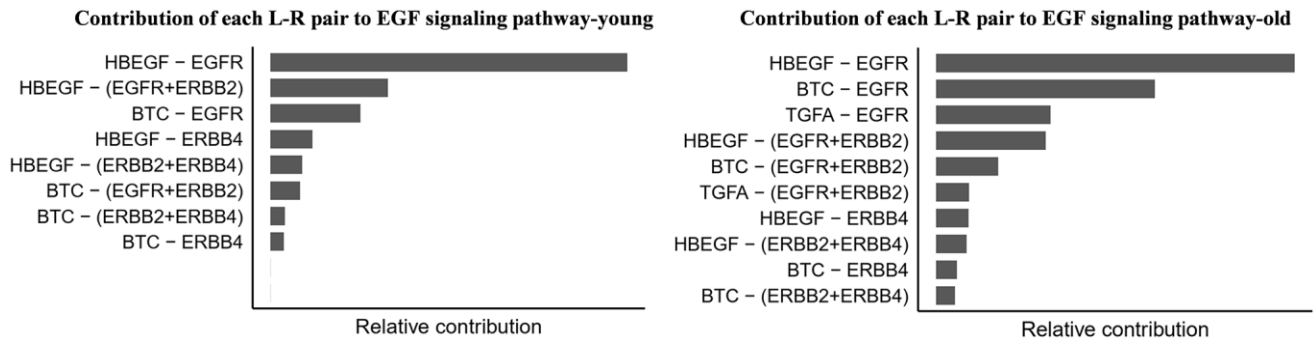
IGF signaling pathway network



WNT signaling pathway network



Supplementary Figure 6. Circle plot of signaling pathways that are unique to old group.



Supplementary Figure 7. Contribution of each L-R pair to EGF signaling pathway in young and old group.