1. Tissue Injury/Inflammation

2. Inflammatory cytokines/Monocyte chemotactic cytokines

A

1. Macrophage infiltration & secretion of Wnt5a

2. Wnt5a signaling upregulates pro-angiogenic cytokines and Tie-2 expression in EC and macrophages

B

3 Wnt5a and cytokines induce endothelial sprouting, proliferation and migration

C

1. EC and pericyte-derived Ang2 induce a pro-angiogenic TEM phenotype.

2. TEMs upregulate proangiogenic proteins (VEGF, proteases).

D

1. Proangiogenic TEMS aid in vessel maturation and anastomosis.