|  |  |  |  |
| --- | --- | --- | --- |
| **Regulator** | **Function** | **Secreted by** | **References** |
| VEGF | Induce Vascular leak and permeability, cell migration & proliferation; ECM degradation; tube formation & survival | BM-MSCs, myofibroblasts, pericytes | [[136-140](#_ENREF_136" \o "Ferrara, 1999 #146)] |
| FGF2 | Induce VEGF expression in endothelial cells during capillary formation; cell migration & proliferation; ECM remodelling | BM-MSCs, myofibroblasts, pericytes | [[137](#_ENREF_137" \o "Seghezzi, 1998 #148), [138](#_ENREF_138" \o "Bronckaers, 2014 #149), [140](#_ENREF_140" \o "Carmeliet, 2011 #152)] |
| ANG1 | Vascular remodeling subsequent to vessel formation; branching and vessel stability (Mural coverage and basement membrane deposition) | BM-MSCs | [[138](#_ENREF_138" \o "Bronckaers, 2014 #149), [140-142](#_ENREF_140" \o "Carmeliet, 2011 #152)] |
| ANG2 | Antagonist of ANG1, EC migration & sprouting | BM-MSCs  | [[138](#_ENREF_138" \o "Bronckaers, 2014 #149), [140](#_ENREF_140" \o "Carmeliet, 2011 #152), [141](#_ENREF_141" \o "Suri, 1996 #154)] |
| SDF1 | Acts on CXCR-4 on endothelail cells; Synergize with VEGF to induce angiogenesis; recruitment of endothelial cells | Fibroblasts | [[114](#_ENREF_114" \o "Mirshahi, 2000 #157), [143](#_ENREF_143" \o "Salcedo, 2003 #162)] |
| PDGF | Vessel maturation; stimulates proliferation of myofibroblasts; mf-derived endothelial cell growth factor; mural cell differentiation | Platelets;  | [[144-146](#_ENREF_144" \o "Sato, 1993 #158)] |
| IL6 | Induce endothelial proliferation & migration | BM-MSCs | [[138](#_ENREF_138" \o "Bronckaers, 2014 #149)] |

**Table 1:** Summary of various growth factors and cytokines secreted by support cells to promote capillary formation, stabilization and maturation.