









Mediator	Roles in immunosuppression	Roles in angiogenesis
PGE2	<ul> <li>Decreases DC maturation, co-stimulatory molecule expression, IL-12 production and CD8<sup>+</sup>T cell cross-priming by tumours</li> <li>Increases tolerogenic DC and T<sub>Reg</sub> cells numbers, arginase 1 expression and the suppressive activity of MDSCs</li> </ul>	<ul> <li>Induces VEGFA production</li> <li>Activates the RAC and nitric oxide-cGMP pathways</li> <li>Stimulates migration and survival of endothelial cells</li> <li>Directly promotes tube formation and proliferation</li> </ul>
TGFβ	$\bullet$ Decreases T cell and macrophage functions $\bullet$ Drives the proliferation of $T_{Reg}$ cells	<ul> <li>Stabilizes angiogenic endothelium</li> <li>Can promote the proliferation and migration of endothelial cells</li> </ul>
IL-6	• Decreases T <sub>H</sub> 1 cell differentiation	Increases VEGFA production
VEGFA	<ul> <li>Impairs DC maturation</li> <li>Increases PDL1 expression by DCs</li> <li>Blocks T cell activation</li> </ul>	<ul> <li>Increases the proliferation, migration, activation, recruitment and survival of endothelial cells</li> </ul>
IDO	• Inhibits T cell activation through tryptophan depletion	<ul> <li>Kynurenine (a tryptophan metabolite produced by IDO) may promote endothelial tube formation and angiogenesis</li> </ul>
Angiopoietin 1	<ul> <li>Has roles in the recruitment of TAMs and MDSCs</li> </ul>	<ul> <li>Has direct effects on endothelial cells</li> </ul>
PDGF	<ul> <li>Has roles in the recruitment of TAMs and MDSCs</li> </ul>	<ul> <li>Has direct effects on endothelial cells</li> </ul>
PLGF	<ul> <li>Can impair DC functions</li> <li>Recruits immunosuppressive cells</li> </ul>	• Has indirect and direct effects on angiogenesis



















mmune phenotypes and growth patterns of CRC liver metastas				
80 patients with	resection of CRC liver metas desmoplastic (n=51; 100%)	stases after bevacizumab-chem replacement (n=29; 100%)		
inflamed	32 (63%)	5 (17%)		
excluded	16 (31%)	8 (28%)		
desert	3 (6%)	16 (55%)		
		Chi Sq. p-value < 0.001		
HistoGene'	K GZA S	dging Histology and Molecular		



