



AB004. Regulation of retinal angiogenesis and vascular permeability by bone morphogenetic protein signaling

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Abstract: The bone morphogenetic protein (BMP) family of proteins has a multitude of roles throughout the body. It plays important roles in development and in the adult vascular endothelium, by modulating the angiogenic response. The endothelial-specific receptor BMP receptor Alk1 is of particular importance in the proper remodeling of the vasculature and its ligand BMP9 has been shown to be a potent inhibitor of neovascularization. Dysregulated BMP signaling has been linked to multiple vascular diseases and can lead to the abnormal angiogenesis. We therefore investigated the role of BMP9/Alk1 signaling in retinal angiogenesis, and its therapeutic implications for vascular pathologies of the eye.

Keywords: Retinal angiogenesis; bone morphogenetic protein (BMP); vascular permeability

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