

Research

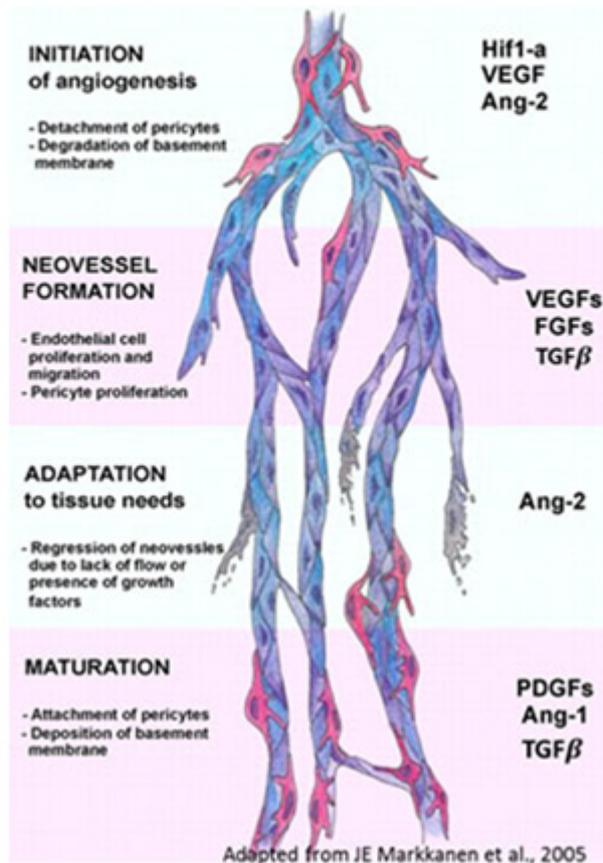
Vascular Biology Lab

A healthy, intact vasculature is central to normal organ and tissue function. Abnormal quantity and quality of blood vessels will cause severe complications. The focus of the Wang lab is to gain novel insights into the molecular and cellular mechanisms that modulate, inhibit and promote blood vessel formation. The goal is to develop novel therapeutic approaches targeting angiogenesis, a key feature shared by over 70 major health conditions affecting more than one billion people worldwide.

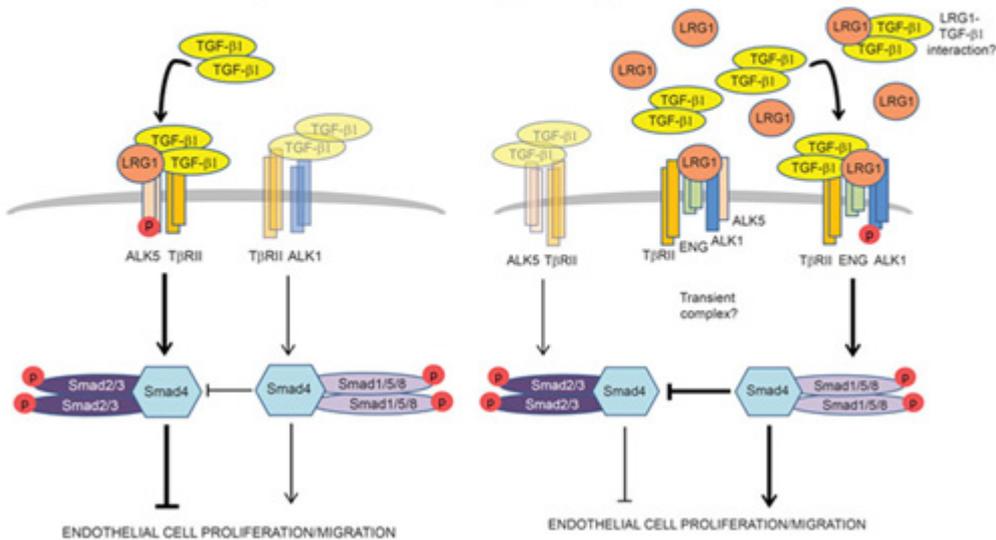
Research in the Wang lab is focused on the following aspects:

- 1) Unravel the basic cellular principles and the molecular control of differential angiogenic responses in diabetic vascular complications.
- 2) Investigate the impact of LRG1 regulated TGF β signalling in different types of diabetic vascular complications as well as in other angiogenesis-related diseases.
- 3) Develop novel therapeutic approaches targeting angiogenesis for the treatment of angiogenesis-related diseases.
- 4) Study the role of LRG1 in TGF β regulated fibrotic diseases.

Angiogenesis



LRG1 regulated TGF β signalling in endothelial cells



Angiogenesis assays

