

Cover Page



Universiteit Leiden



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# High-throughput simulation studies of angiogenesis

*Reverse engineering the role of tip cells  
and pericytes in vascular development*

Margriet Palm

**Cover:** Network formation with tip cells (ivory) and stalk cells (red). The cells are dynamically selected via lateral inhibition and respond less to a chemoattractant that is secreted by all cells. See chapter 4 for further details.

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# High-throughput simulation studies of angiogenesis

*Reverse engineering the role of tip cells  
and pericytes in vascular development*

Proefschrift

ter verkrijging van  
de graad van Doctor aan de Universiteit Leiden,  
op gezag van Rector Magnificus prof.mr. C.J.J.M. Stolker,  
volgens besluit van het College voor Promoties  
te verdedigen op dinsdag 30 september 2014  
klokke 15.00 uur

door

Margaretha Maria Palm  
geboren te Heumen  
in 1985

**Promotiecommissie:**

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*Voor mama, die mij het vertrouwen  
gaf om de grote onbekende wereld om  
mij heen te onderzoeken*



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