Soluble VEGFR1 signaling guides vascular patterns into dense branching morphologies

Dóra Lakatos, Ellák Somfai, Elöd Méhes, András Czirók

PII: S0022-5193(18)30375-8
DOI: https://doi.org/10.1016/j.jtbi.2018.08.005
Reference: YJTBI 9570

To appear in: *Journal of Theoretical Biology*

Received date: 17 January 2018
Revised date: 1 August 2018
Accepted date: 3 August 2018

Please cite this article as: Dóra Lakatos, Ellák Somfai, Elöd Méhes, András Czirók, Soluble VEGFR1 signaling guides vascular patterns into dense branching morphologies, *Journal of Theoretical Biology* (2018), doi: https://doi.org/10.1016/j.jtbi.2018.08.005

Highlights

- Pattern formation guided by an autocrine inhibitor through a reaction-diffusion process
- Connected molecular parameters to statistical characteristics of the vasculature
- Specific model predictions tested by experiments