

Journal papers

- * S. Roman, A. Merlo, P. Duru, F. Risso and S. Lorthois. [Going below 20 \$\mu\$ m-sized channels for studying red blood cell phase separation in microfluidic bifurcations.](https://doi.org/10.1063/1.4948955) *Biomicrofluidics* 2016 : 034103 (23p.), <http://dx.doi.org/10.1063/1.4948955>.
- * PM. Rasmussen , AF. Smith , S. Sakadžić , DA. Boas , AR. Pries , T. W. Secomb , L. Østergaard. [Model based inference from microvascular measurements: Combining experimental measurements and model predictions using a Bayesian probabilistic approach.](https://doi.org/10.1111/micc.12343) *Microcirculation* 2017 : 24, e12343, <https://doi.org/10.1111/micc.12343>.
- * M. Peyrounette, Y. Davit, M. Quintard and S. Lorthois. [Multiscale modelling of blood flow in cerebral microcirculation: Details at capillary scale control accuracy at the level of the cortex.](https://doi.org/10.1371/journal.pone.0189474) *PLOS ONE* 2018 : 13, e0189474 (35p). <https://doi.org/10.1371/journal.pone.0189474>
- * JC. Cruz Hernández, O. Bracko, CJ. Kersbergen, V. Muse, M. Haft-Javaherian, M. Berg, L. Park, LK. Vinarcsik, I. Ivasyk, Y. Kang, M. Cortes-Canteli, M. Peyrounette, V. Doyeux, A. Smith, J. Zhou, G. Otte, JD. Beverly, E. Davenport, Y. Davit, S. Strickland, C. Iadecola, S. Lorthois, N. Nishimura, and CB. Schaffer. [Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer's disease mouse models.](https://doi.org/10.1038/s41593-018-0329-4) *Nature Neuroscience* 2019 : 22, 413–420. <https://doi.org/10.1038/s41593-018-0329-4>.
- * M. Haft-Javaherian , L. Fang , V. Muse , CB. Schaffer , N. Nishimura , MR. Sabuncu. Deep convolutional neural networks for segmenting 3D in vivo multiphoton images of vasculature in Alzheimer disease mouse models. *PLOS ONE* 2019 <https://doi.org/10.1371/journal.pone.0213539>
- * A F. Smith, V. Doyeux, M. Berg, M. Peyrounette, M. Haft Javaherian, A.E. Larue, J.H. Slater, F. Lauwers, P. Blinder, D. Kleinfeld, C.B. Schaffer, N. Nishimura, Y. Davit and S. Lorthois. [Brain capillary networks across species: a few simple organizational requirements are sufficient to reproduce both structure and function.](https://doi.org/10.3389/fphys.2019.00233) *Frontiers in Physiology* 2019. <https://doi.org/10.3389/fphys.2019.00233>.