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### Publications

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#### PUBLICATIONS

- **Elevated uptake of plasma macromolecules by regions of arterial wall predisposed to plaque instability in a mouse model.** *PloS one*  
Mohri, Z., Rowland, E. M., Clarke, L. A., De Luca, A., Peiffer, V., Krams, R., Sherwin, S. J., Weinberg, P. D.  
2014; 9 (12): e115728
- **Computation in the rabbit aorta of a new metric - the transverse wall shear stress - to quantify the multidirectional character of disturbed blood flow.** *Journal of biomechanics*  
Peiffer, V., Sherwin, S. J., Weinberg, P. D.  
2013; 46 (15): 2651-8
- **Does low and oscillatory wall shear stress correlate spatially with early atherosclerosis? A systematic review.** *Cardiovascular research*  
Peiffer, V., Sherwin, S. J., Weinberg, P. D.  
2013; 99 (2): 242-50
- **Variability of computational fluid dynamics solutions for pressure and flow in a giant aneurysm: the ASME 2012 Summer Bioengineering Conference CFD Challenge.** *Journal of biomechanical engineering*  
Steinman, D. A., Hoi, Y., Fahy, P., Morris, L., Walsh, M. T., Aristokleous, N., Anayiotos, A. S., Papaharilaou, Y., Arzani, A., Shadden, S. C., Berg, P., Janiga, G., Bols, et al  
2013; 135 (2): 021016-?
- **A novel method for quantifying spatial correlations between patterns of atherosclerosis and hemodynamic factors.** *Journal of biomechanical engineering*  
Peiffer, V., Bharath, A. A., Sherwin, S. J., Weinberg, P. D.  
2013; 135 (2): 021023
- **Effect of aortic taper on patterns of blood flow and wall shear stress in rabbits: association with age.** *Atherosclerosis*  
Peiffer, V., Rowland, E. M., Cremers, S. G., Weinberg, P. D., Sherwin, S. J.  
2012; 223 (1): 114-21
- **Reducing the data: Analysis of the role of vascular geometry on blood flow patterns in curved vessels** *PHYSICS OF FLUIDS*  
Alastruey, J., Siggers, J. H., Peiffer, V., Doorly, D. J., Sherwin, S. J.  
2012; 24 (3)
- **A hybrid bioregulatory model of angiogenesis during bone fracture healing.** *Biomechanics and modeling in mechanobiology*  
Peiffer, V., Gerisch, A., Vandepitte, D., Van Oosterwyck, H., Geris, L.  
2011; 10 (3): 383-95