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Modelling and simulating the dynamics of in-stent restenosis in porcine coronary arteries

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Publications

Journal Papers:

- *Tahir H, Hoekstra AG, Lorenz E, Lawford PV, Hose DR, Gunn J, Evans DJW (2011) Multi-scale simulations of the dynamics of in-stent restenosis: impact of stent deployment and design. Interface Focus 1: 365-373*
- *Tahir H, Bona-Casas C, Hoekstra AG (2013) Modelling the effect of a functional endothelium on the development of in-stent restenosis. PloS one 8: e66138.*
- *Tahir H, Bona-Casas C, Narracott A, Gunn J, Lawford PV, Hoekstra AG Endothelial repair process and its relevance to longitudinal neointimal tissue patterns: Comparing histology with in-silico modelling. (Submitted to cardiovascular research, 2013)*
- *Amartruda CM, Bona-Casas C, Keller B, Tahir H, Dubini G, Hoekstra AG, Hose DR, Lawford PV, Migliavacca F, Narracott AJ, Gunn J. From histology and imaging data to models for in-stent restenosis. International journal of artificial organs (IJAo). (Submitted)*
- *Tahir H, Niculescu I, Bona-Casas, C, Hoekstra AG, Merks R.M.H. Modelling smooth muscle cells migration and proliferation after vascular injury: A Cellular Potts Model of in-stent restenosis. (To be submitted)*
- *3D ISR work (To be submitted)*

Conference Abstracts:

- *Tahir H, Hoekstra AG, Lorenz E, Lawford PV, Hose DR, Gunn J, Evans DJW. Simulating the dynamics of in-stent restenosis: a multiscale modelling study, 6th international symposium on Biomechanics in Vascular Biology and Cardiovascular Disease, Rotterdam, The Netherlands, April 2011.*
- *Tahir, H, Bona-Casas, C, Hoekstra, A. G. Modelling the influence of re-endothelialization on in-stent restenosis. VPH Conference 2012, London, UK.*

- *Tahir, H, Bona-Casas, C, Hoekstra, AG. Modelling In-Stent Restenosis: morphological differences in the tissue patterns based on the origin of endothelium recovery , 8th international symposium on Biomechanics in Vascular Biology and Cardiovascular Disease, Rotterdam, The Netherlands, April 2013.*
- *Bona-Casas C, Borgdorff J, Tahir H, Hoekstra, AG., An off-lattice 3D model for in-stent restenosis. 8th international symposium on Biomechanics in Vascular Biology and Cardiovascular Disease, Rotterdam, The Netherlands, April 2013.*
- *Tahir, H, Bona-Casas, C, Hoekstra, AG. In-stent restenosis patterns based on the origin of endothelium recovery. European Society of Biomechanics (ESB), Patras, Greece, August 2013.*
- *Bona-Casas C, Borgdorff J, Tahir H, Hoekstra, AG., First results on a 3D model for in-stent restenosis. European Society of Biomechanics (ESB), Patras, Greece, August 2013.*