

Lista lucrărilor științifice - (co)autor

2016

1. **A. Lungu**, MR image based measurement, modelling and diagnostic interpretation of pressure and flow in the pulmonary arteries: applications in pulmonary hypertension (PhD thesis), <http://etheses.whiterose.ac.uk/12138/>
2. **A. Lungu**, A. Swift, D. Capener, D. Kielly, D.R. Hose, J. Wild, Diagnosis of Pulmonary Hypertension from MR image based computational models and decision tree analysis, **Pulmonary Circulation**, v. 6, p. 181-190, 2016
3. L. Luong , H. Duckles , T. Schenkel , M. Mahmoud , J. L. Lopez-Tremoleda , M. Wylezinska-Arridge, M. Ali , N. P. Bowden, M. Villa-Uriol, K. van der Heiden, R. Xing, F. J. Gijssen, J. Wentzel, A. Lawrie, S. Feng, N. Arnold, W. Gsell, **A. Lungu**, R. Hose, T. Spencer, I. Halliday, V. Ridger , P. C. Evans, Heart rate reduction with ivabradine promotes shear stress-dependent anti-inflammatory mechanisms in arteries, **Thrombosis and Haemostasis**, v. 116, 2016.

2015

4. **A. Lungu**, A. Swift, D. Capener, D. Kielly, D.R. Hose, J. Wild, Diagnosis of pulmonary hypertension from MR image based computational models of pulmonary vascular haemodynamics and decision tree analysis, **European Respiratory Journal**, v 46 (suppl 59), 2015.
5. A. Swift, **A. Lungu**, H.Walker, D. Capener, C. Hammerton, C.Elliot, R. Condliffe, D.Kiely, J.Wild, Improved diagnostic accuracy of MRI in patients with suspected pulmonary hypertension with combined right ventricle and pulmonary artery metrics, **European Respiratory Journal**, 46 (suppl 59), 2015.
6. P. Morris, A. Narracott, H. von Tengg-Kobligk, D.A Silva Soto, S. Hsiao, **A. Lungu**, P. Evans, N. W Bressloff, P. Lawford, D.R Hose, J.P Gunn, Computational Fluid Dynamics Modelling in Cardiovascular Medicine, **Heart**, v. 102, 2015, pp 18-28

2014

7. **A. Lungu**, J. Wild, A. Swift, D.Capener, D. Kielly, D.R. Hose, MRI model-based non-invasive differential diagnosis in pulmonary hypertension, **Journal of Biomechanics**, v. 47, Issue 12, 2014, pp 2941-2947.
8. **A. Lungu**, J. Wild, A. Swift, D. Capener, D. Kielly , D.R. Hose, Automatic, simultaneous, non-invasive measurements of flow and area in the human pulmonary arteries from MRI images, **IFMBE Proceedings v. 44**, 2014, pp 259-264.
9. J. Peters, **A. Lungu**, F.M.Weber, I.Waechter-Stehle, D.R. Hose, J. Weese, Comparison of CFD-Based and Bernoulli-Based Pressure Drop Estimates across the Aortic Valve Enabled by Shape-Constrained Deformable Segmentation of Cardiac CT Images **Lectures Notes in Computer Science**, v. 8789, 2014, pp 211-219.
10. Le Luong, H. Duckles, T. Schenkel, N. Arnold, W. Gsell. **A. Lungu**, T. Spencer, D.R. Hose, I. Halliday, P. C. Evans, A pharmacological approach to promote shear stress-dependent anti-inflammatory mechanisms in arteries- **Arteriosclerosis, Thrombosis, and Vascular Biology**, 2014. 34(Suppl 1): p. A258-A258

