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DR EVA ROG-ZIELINSKA

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Research Associate

SUMMARY

I obtained my Biotechnology Master's degree from the Nicolaus Copernicus University in Torun, Poland, where I worked mainly on molecular mechanisms of human melanoma progression.

I was awarded a 4-year BHF PhD studentship at The University of Edinburgh in 2008, having completed a second Master's degree in Cardiovascular Sciences there. I joined Professor Karen Chapman's group to undertake my PhD investigating late gestation development of the heart.

I am currently working with Professor Peter Kohl and Professor Sian Harding to elucidate the impact of mechanical activity on cardiac T-tubular system. I am also interested in the mechanisms of mechanosensing and the properties of myocardial infarction scars. My overall focus is on developing models and tools to study the relationships that exist between molecular events and the structure and function of the heart during development, and in response to pathological stimuli.

Recently I have been awarded a 3-year BHF Immediate Post-doctoral Basic Research Fellowship.

I maintain close collaborations with University of Colorado Boulder, Bristol University, EMBL Heidelberg, and University Heart Centre Freiburg-Bad Krozingen.

PEER-REVIEWED PUBLICATIONS

<http://www.ncbi.nlm.nih.gov/pubmed/?term=rog-zielinska>

C.S. Wyrwoll, J. Noble, A. Thomson, D. Tesic, M.R. Miller, **E.A. Rog-Zielinska**, C.M. Moran, J.R. Seckl, K.E. Chapman, M.C. Holmes. "Pravastatin ameliorates placental vascular defects, fetal growth, and cardiac function in a model of glucocorticoid excess" *PNAS* 2016, 113(22), 6265-6279

E.A. Rog-Zielinska, C.M. Johnston, E.T. O'Toole, M. Morphew, A. Hoenger, P. Kohl. "Electron tomography of rabbit cardiomyocyte three-dimensional ultrastructure" *Progress In Biophysics And Molecular Biology* 2016, doi: 10.1016/j.pbiomolbio.2016.05.005. [Epub ahead of print]

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CONTACT

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LOCATION

Sir Alexander Fleming Building
South Kensington Campus

E.A. Rog-Zielinska, R.A. Norris, P. Kohl, R. Markwald. "The Living Scar - Cardiac Fibroblasts and the Injured Heart" *Trends in Molecular Medicine* 2016, 22(2):99-114

D.E. Livingstone, P. Barat, E. Di Rollo, G. Rees, B. Weldin, **E.A. Rog-Zielinska**, D. McFarlane, B.R. Walker, R. Andrew. "5 α -Reductase type 1 deficiency or inhibition predisposes to insulin resistance, hepatic steatosis and liver fibrosis in rodents" *Diabetes* 2015, 64(2), 447-458

E.A. Rog-Zielinska, M-A Craig, J. Manning, R.V. Richardson, G. Gowans, D. Dunbar, K. Gharbi, C. Kenyon, M. Holmes, D. Hardie, G. Smith, K.E. Chapman. "Glucocorticoids promote structural and functional maturation of foetal cardiomyocytes: a role for PGC-1 α " *Cell Death and Differentiation* 2015, 22(7), 1106-1116

E.A. Rog-Zielinska, R.V. Richardson, M.A. Denvir, K.E. Chapman. "Glucocorticoids and fetal heart maturation; implications for prematurity and fetal programming" *Journal of Molecular Endocrinology* 2014, 52(2), 125-135

C.L. Esteves, M. Verma, **E.A. Rog-Zielinska**, V. Kelly, A. Breton, F.X. Donadeu, J.R. Seckl, K.E. Chapman. "Pro-inflammatory cytokine up-regulation of 11 β -Hydroxysteroid Dehydrogenase Type 1 (11 β -HSD1) P2 promoter is mediated by p38 MAPK, C/EBP β and NF- κ B/RelA" *PLoS One* 2013, 8 (9), e75874

E.A. Rog-Zielinska, A. Thomson, C.J. Kenyon, D.G. Brownstein, C. Moran, D. Szumska, Z. Michailidou, J. Richardson, A. Watt, H. Morrison, L. Forrester, S. Bhattacharya, M.C. Holmes, K.E. Chapman. "Glucocorticoid receptor is required for fetal heart maturation" *Human Molecular Genetics* 2013, 22(16), 3269-3282

C. Moran, A. Thomson, **E. A. Rog-Zielinska**, G. Gray. "High resolution echocardiography in the assessment of cardiac physiology and disease in preclinical models of cardiac disease" *Experimental Physiology* 2013, 98, 629-644

PUBLICATIONS

Wyrwoll CS, Noble J, Thomson A, [et al.](#), 2016, Pravastatin ameliorates placental vascular defects, fetal growth, and cardiac function in a model of glucocorticoid excess., *Proc Natl Acad Sci U S A*, Vol:113, Pages:6265-6270

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Rog-Zielinska EA, Johnston CM, O'Toole ET, [et al.](#), 2016, Electron tomography of rabbit cardiomyocyte three-dimensional ultrastructure, *Progress In Biophysics & Molecular Biology*, Vol:121, ISSN:0079-6107, Pages:77-84

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