

Marie-Ann Ewart PhD

Business, research and management experience:

- 2016-2017:**Research and Development Manager**, AvantiCell Science Ltd, Ayr, KA6 5HW.
- 2015-2016:**International Business Manager**, AvantiCell Science Ltd, Ayr, KA6 5HW.
- 2013-2015:**Course coordinator**, MVLS, University of Glasgow (GU), G12 8QQ.
- 2011-2013:**Principal Investigator**, Vascular Pathophysiology & Therapy. IC&MS, GU, G12 8QQ.
- 2007-2011:**Postdoctoral Associate**, Integrative & Systems Biology, GU & SIPBS, G4 0NR.
- 2003-2007:**Postdoctoral Research Assistant**, Sir Henry Wellcome Cell Biology Lab, Glasgow.
- 2001-2003:**Research Assistant**, Biochemistry & Molecular Biology, GU, G12 8QQ.

Education:

- **Ph.D.** Biochemistry, University of Glasgow, 2001
- **M.Sc.**(Distinction), Biomedical Science Glasgow Caledonian University, 1997
- **B.Sc.**(Hons), Medical Biochemistry, University of Glasgow, 1996

Summary of key research techniques and capabilities:

- Expertise in the physiological, cellular, biochemical and molecular techniques involved in the preparation and analysis of cardiovascular and neurological cells and tissue – including; isolation and manipulation of primary cells, fluorescence microscopy, flow cytometry, immunocytochemistry, single cell Ca²⁺ imaging, kinase assays, PCR, cloning, transfection, RNA isolation/manipulation, quantitative immuno/western blotting, nitric oxide analysis, and signalling pathway analysis.

Past Management responsibilities:

- Project Manager/Principal Investigator.
- Physiology and Neuroscience course coordinator, Respiration option organiser.
- Planning, supervision and assessment of summer, honours and postgraduate research projects.
- Delivering a range of teaching, course support and assessment.
- Adviser of Studies – academic and pastoral support of undergraduate and postgraduate students.

Recent Selected Publications (35 total publications):

EWART, M-A; UGUSMAN, A; VISHWANATH, A. *et al* (2017) Changes in IP3 receptor expression and function in aortic smooth muscle. *Journal of vascular research* 54 (2), 68-78

EWART, M-A., WRIGHT, A.F., MAIR, K.M. *et al* (2015) Estrogen Receptor alpha (ER α) in pulmonary hypertension. *Cardiovascular research*, 106 (2), 206-216

EWART, M-A., KENNEDY, S., MACMILLAN, D. *et al* (2014) Altered vascular smooth muscle function in the ApoE knockout mouse during the progression of atherosclerosis. *Atherosclerosis*, 234(1), 154-161

Recent business, conference and seminar participation:

EuroNeurotrophin Kick Off meeting, Athens, Greece, **January 2018.**

PANDORA annual meeting, Cardiff, UK, **December 2017.**

RegMed Forum 2017, Berlin, Germany, **December 2017.**

World Preclinical Congress Europe, Lisbon, Portugal, **November 2017.**

Innovation Sessions - Japanese delegation, Centre for regenerative medicine, Edinburgh, UK, **May 2017.**

Chromatin3D 2nd Annual meeting, Stockholm, Sweden, **March 2017.**

PANDORA Fellows KO meeting, Barcelona, Spain, **February 2017.**

CENSUS KO meeting, Ayr, UK, **November 2016.**

SME Instrument Innovator's Summit, Brussels, Belgium, **October 2016.**

Chromatin3D 1st Annual Meeting, Heraklion, Crete, **September 2016.**

NC3Rs Workshop, Pathways-based approaches, London, UK, **April 2016.**