

## Professor Janice Marshall BSc, PhD, DSc

Professor Of Cardiovascular Science

Cardiovascular and Respiratory Sciences

### Contact details

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### About

Janice Marshall was an undergraduate at the University of Birmingham and studied for her PhD in the Medical School. She was appointed to a Lectureship in Physiology, and then to Senior Lectureship, Readership and in 1995, to a Personal Chair in Cardiovascular Science. In 2002, she became Head of the Division of Medical Sciences in the School of Medicine and held this post until 2008. At the time of the University's re-structuring in August 2008, she became Director of Education for the College of Medical & Dental Sciences

### Teaching

- Co-ordinator for 3rd year BMedSc Module: Cardiovascular Science: Integrative Mechanisms.
- Co-ordinator for Module in Cardiovascular and Respiratory Systems in BDS Programme
- Contributes to cardiovascular and respiratory teaching to MBChB, 1st, 2nd year and 3rd year BMedSc.

### Research

Janice's research interests lie in the neural and local regulation of tissue blood flow in health and disease with particular focus on the physiological consequences of systemic hypoxia and exercise. She has published over 120 papers and reviews and has edited 3 books. She is a Fellow of the Institute of Biology and of the Academy of Medical Sciences. In addition to her research activities, Janice has always maintained a strong interest and involvement in teaching and education. She has served on several Editorial Boards for international research journals and on several national advisory and professional committees concerned with education and research.

### Other activities

- Janice joined Senate in August 2008 and was elected to Council by the academic members of Senate.
- She is a member of the Strategy, Planning and Resources Committee.
- Currently supervises 5 PhD students.
- Editorial Board of 3 Journals
- University Representative for The Physiological Society

### Publications

Ray CJ & Marshall JM. (2009) 'Elucidation in the rat of the role of adenosine and A2A-receptors in the hyperaemia of twitch and tetanic contractions'. *J Physiol* 587, 1565–1578

Ray CJ & Marshall JM (2009) 'Nitric oxide (NO) does not contribute to the generation or action of adenosine during exercise hyperaemia in rat hindlimb'. *J Physiol* 587, 1579–1591

Coney AM & Marshall, JM (2007) 'Contribution of  $\alpha_2$  adrenoceptors and NPY Y1 receptors to the blunting of sympathetic vasoconstriction induced by systemic hypoxia in the rat'. *J Physiol* 582, 1349–1359.

Johnson, CD, Hudson S & Marshall JM (2007). Responses evoked in single sympathetic nerve fibres of the rat tail artery by systemic hypoxia are dependent on core temperature'. *J Physiol*. 2007, 584;221-233

Walsh MP, Marshall JM. (2006) 'The early effects of chronic hypoxia on the cardiovascular system in the rat : role of nitric oxide'. *J.Physiol* 575, 263-275.

Walsh MP, & Marshall JM. 'The role of adenosine in the early respiratory and cardiovascular changes evoked by chronic hypoxia in the rat'. (2006) *J Physiol*. 575, 277-289.

Cooke JP, Marshall JM. 'Mechanisms of Raynaud's disease'. *Vasc Med*. 2005 Nov;10(4):293-307.

Ray CJ, & Marshall JM. 'The cellular mechanisms by which adenosine evokes release of nitric oxide from rat aortic endothelium'. *J Physiol*. 2006 Jan 1;570(Pt 1):85-96.

