



# Oxidative Medicine and Cellular Longevity

## Special Issue on **Exercise, Free Radical Metabolism, and Aging: Cellular and Molecular Processes**

# CALL FOR PAPERS

The human aging process is associated with a gradual and cumulative decline in the normal functioning of all major bodily systems. While life expectancy is increasing at an exponential rate, the length of time spent in good health across the lifespan (health-span) is in decline. Exercise and physical activity are widely regarded as important interventions to increase longevity and promote healthy aging and well-being. While all physiological systems appear responsive to the beneficial effects of exercise, further research is required to understand the relationship between free radical metabolism in cellular and molecular processes affected by exercise in the context of human aging. This special issue aims to reflect the current state of basic and applied research in free radical metabolism, exercise, and human aging. We invite both empirical papers and systematic reviews that stimulate and contribute to a deeper understanding of free radical biochemistry and cellular and molecular processes affected by exercise to facilitate healthy aging. Articles that focus on the mediating effects of exercise across multiple physiological systems at the cellular and molecular level are welcomed.

Potential topics include, but are not limited to:

- ▶ Aging and the stress response
- ▶ Cellular responses to exercise
- ▶ Exercise and its impact on the aging process
- ▶ Disease states, oxidative stress, and changed response with exercise

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/omcl/efrm/>.

### **Lead Guest Editor**

Geraint D. Florida-James, Edinburgh Napier University, Edinburgh, UK  
*g.florida-james@napier.ac.uk*

### **Guest Editors**

Rickie Simpson, University of Houston, Houston, USA  
*rjsimpso@Central.uh.edu*

Gareth Davison, Ulster University, Newtownabbey, UK  
*gw.davison@ulster.ac.uk*

Graeme Close, Liverpool John Moores University, Liverpool, UK  
*g.l.close@ljmu.ac.uk*

### **Manuscript Due**

Friday, 14 August 2015

### **First Round of Reviews**

Friday, 6 November 2015

### **Publication Date**

Friday, 1 January 2016