

## Accepted Manuscript

Title: Exercise-intensity dependent alterations in plasma redox status do not reflect skeletal muscle redox-sensitive protein signaling

Authors: Lewan Parker, Adam Trewin, Itamar Levinger, Christopher S. Shaw, Nigel K. Stepto



PII: S1440-2440(17)30934-9  
DOI: <http://dx.doi.org/doi:10.1016/j.jsams.2017.06.017>  
Reference: JSAMS 1556

To appear in: *Journal of Science and Medicine in Sport*

Received date: 12-3-2017  
Revised date: 15-5-2017  
Accepted date: 21-6-2017

Please cite this article as: Parker Lewan, Trewin Adam, Levinger Itamar, Shaw Christopher S, Stepto Nigel K. Exercise-intensity dependent alterations in plasma redox status do not reflect skeletal muscle redox-sensitive protein signaling. *Journal of Science and Medicine in Sport* <http://dx.doi.org/10.1016/j.jsams.2017.06.017>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Full Title:** Exercise-intensity dependent alterations in plasma redox status do not reflect skeletal muscle redox-sensitive protein signaling

Short Title: Exercise-intensity and systemic redox status.

Authors: Lewan Parkera, Adam Trewina, Itamar Levingera,b, Christopher S Shawa,c, Nigel K Steptoa,b,d

a Institute of Sport, Exercise and Active Living (ISEAL), College of Sport and Exercise Science, Victoria University, Melbourne, Australia.

b Australian Institute for Musculoskeletal Science (AIMSS), St. Albans, Australia

c Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Deakin University, Geelong, Australia.

d Monash Centre for Health Research and Implementation (MCHRI), School of Public Health and Preventative Medicine, Monash University and Monash Health, Clayton, Australia.

Address for correspondence:

Dr. Lewan Parker

Institute of Sport, Exercise and Active Living (ISEAL),

Victoria University, Melbourne.

PO Box 14428, Melbourne, VIC 8001, Australia.

Tel: +61403276153, E-mail: lewan.parker@vu.edu.au, lewan.parker@gmail.com

## **Abstract.**

**Objectives:** Redox homeostasis and redox-sensitive protein signaling play a role in exercise-induced adaptation. The effects of sprint-interval exercise (SIE), high-intensity interval exercise (HIIE) and continuous moderate-intensity exercise (CMIE), on post-exercise plasma redox status are unclear. Furthermore, whether post-exercise plasma redox status reflects skeletal muscle redox-sensitive protein signaling is unknown. **Design:** In a randomized

Download English Version:

<https://daneshyari.com/en/article/8592898>

Download Persian Version:

<https://daneshyari.com/article/8592898>

[Daneshyari.com](https://daneshyari.com)