Author's Accepted Manuscript

A robust and versatile mass spectrometry platform for comprehensive assessment of the thiol redox metabolome

T.R. Sutton, M. Minnion, F. Barbarino, G. Koster, B.O. Fernandez, A.F. Cumpstey, P. Wischmann, M. Madhani, M.P. Frenneaux, A.D. Postle, M.M. Cortese-Krott, M. Feelisch



www.elsevier.com/locate/redox

PII: S2213-2317(17)30939-4

DOI: https://doi.org/10.1016/j.redox.2018.02.012

Reference: REDOX862

To appear in: Redox Biology

Received date: 20 December 2017 Revised date: 25 January 2018 Accepted date: 13 February 2018

Cite this article as: T.R. Sutton, M. Minnion, F. Barbarino, G. Koster, B.O. Fernandez, A.F. Cumpstey, P. Wischmann, M. Madhani, M.P. Frenneaux, A.D. Postle, M.M. Cortese-Krott and M. Feelisch, A robust and versatile mass spectrometry platform for comprehensive assessment of the thiol redox metabolome, *Redox Biology*, https://doi.org/10.1016/j.redox.2018.02.012

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 galley proof before it is published in its final citable 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.

ACCEPTED MANUSCRIPT

A robust and versatile mass spectrometry platform for comprehensive assessment of the thiol redox metabolome

Sutton TR*1, Minnion M*1, Barbarino F^{2,3}, Koster G¹, Fernandez BO¹, Cumpstey AF¹, Wischmann P^{2,3}, Madhani M⁴, Frenneaux MP⁵, Postle AD¹, Cortese-Krott MM^{2,3}, Feelisch M^{1,#}

¹Clinical and Experimental Sciences, Faculty of Medicine, University of Southampton; NIHR Southampton Biomedical Research Centre, University of Southampton and University Hospital Southampton NHS Foundation Trust, Southampton, UK

²Cardiovascular Research Laboratory, Division of Cardiology, Pneumology & Vascular Medicine, and ³CARID, Cardiovascular Research Institute Düsseldorf, Medical Faculty, Heinrich Heine University, Düsseldorf, Germany

⁴Institute of Cardiovascular Sciences, University of Birmingham, Birmingham, UK

⁵Norwich Medical School, University of East Anglia, Norwich, UK

*these authors contributed equally

#correspondence should be addressed to m.feelisch@soton.ac.uk

Running title: Determination of sulfide and thiols by LC-MS/MS

Word count: 15,509

5 Figures, 3 Tables

Corresponding author:

Prof. Martin Feelisch

Clinical and Experimental Sciences

Faculty of Medicine, University of Southampton

Southampton General Hospital, South Academic Block, Level F, Mailpoint 810

Tremona Road, Southampton, SO16 6YD, UK

Phone: +44 2381 206891

e-Mail: m.feelisch@soton.ac.uk

Download English Version:

https://daneshyari.com/en/article/8286622

Download Persian Version:

https://daneshyari.com/article/8286622

<u>Daneshyari.com</u>