# NATO SPS PROJECT:

## "A Field Detector for Genotoxicity from CBRN and Explosive Devices"

**Partner Presentation:**

**Prof. Tatjana Ruskovska**

**Faculty of Medical Sciences**

**Goce Delcev University, Stip, Republic of Macedonia**

**Kick-off meeting**
**Sofia, 15-16. 05. 2017**

# GOCE DELCEV UNIVERSITY

**27 March 2007 - Established by the Assembly of the Republic of Macedonia**
**28 June 2007 - The first Constitutive Assembly of the University Senate**

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Specialization

*Int. J. Mol. Sci.* **2013**, *14*, 6106-6115; doi:10.3390/ijms14036106

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International Journal of

**Molecular Sciences**

**ISSN 1422-0067**

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*Article*

# Comparative Analysis of Serum (Anti)oxidative Status Parameters in Healthy Persons

**Eugène HJM Jansen [1,*] and Tatjana Ruskovska [2]**

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[2] Faculty of Medical Sciences, Goce Delcev University, Stip 2000, Macedonia; E-Mail: tatjana.ruskovska@ugd.edu.mk

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**Abstract:** Five antioxidant and two oxidative stress assays were applied to serum samples of 43 healthy males. The antioxidant tests showed different inter-assay correlations. A very good correlation of 0.807 was observed between the ferric reducing ability of plasma (FRAP) and total antioxidant status (TAS) assay and also a fair correlation of 0.501

Hindawi Publishing Corporation
BioMed Research International
Volume 2014, Article ID 843157, 8 pages
http://dx.doi.org/10.1155/2014/843157

*Research Article*

# Evaluation of Assays for Measurement of Serum (Anti)oxidants in Hemodialysis Patients

**Tatjana Ruskovska,[1] Eugene H. J. M. Jansen,[2] and Risto Antarorov[3]**

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Molecular Biomarkers & Diagnosis

Jansen, et al., J Mol Biomark Diagn 2014, 5:6
http://dx.doi.org/10.4172/2155-9929.1000207

Research Article Open Access

# The Effect of Smoking on Biomarkers of (Anti)oxidant Status

**Eugène HJM Jansen[1*], Piet Beekhof[1] and Tatjana Ruskovska[2]**

[1]*Centre for Health Protection, National Institute for Public Health and the Environment, Bilthoven, the Netherlands*

[2]*Faculty of Medical Sciences, Goce Delcev University, Stip, Republic of Macedonia*

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**Rec date:** Nov 07, 2014; **Acc date:** Dec 22, 2014; **Pub date:** Dec 28, 2014



International Journal of *Molecular Sciences*

MDPI

*Review*

# Serum Biomarkers of (Anti)Oxidant Status for Epidemiological Studies

Eugène Jansen [1,†,*] and Tatjana Ruskovska [2,†]

Received: 19 September 2015 ; Accepted: 2 November 2015 ; Published: 16 November 2015
Academic Editor: Guido R. M. M. Haenen

PLOS ONE

RESEARCH ARTICLE

# Diurnal Variation of Hormonal and Lipid Biomarkers in a Molecular Epidemiology-Like Setting

**Linda W. M. van Kerkhof[1☯], Kirsten C. G. Van Dycke[1,2☯], Eugene H. J. M. Jansen[1], Piet K. Beekhof[1], Conny T. M. van Oostrom[1], Tatjana Ruskovska[3], Nevenka Velickova[3], Nikola Kamcev[3], Jeroen L. A. Pennings[1], Harry van Steeg[1,4], Wendy Rodenburg[1]***

**1** Centre for Health Protection, National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands, **2** Department of Genetics, Center for Biomedical Genetics, Erasmus University Medical Center, Rotterdam, The Netherlands, **3** Faculty of Medical Sciences, Goce Delcev University, Stip, Republic of Macedonia, **4** Department of Human Genetics, Leiden University Medical Center, Leiden, The Netherlands

☯ These authors contributed equally to this work.
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## Abstract

cost

EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

# Chemistry of non-enzymatic protein modification - modulation of protein structure and function

*Free Radical Research*, 2014; Early Online: 1–11

ISSN 1071-5762 print/ISSN 1029-2470 online
DOI: 10.3109/10715762.2014.991725

informa
healthcare

ORIGINAL ARTICLE

## Ankyrin is the major oxidised protein in erythrocyte membranes from end-stage renal disease patients on chronic haemodialysis and oxidation is decreased by dialysis and vitamin C supplementation

T. Ruskovska[1], S. J Bennett[2], C. R. Brown[2], S. Dimitrov[3], N. Kamcev[1] & H. R. Griffiths[2]

[1]*Faculty of Medical Sciences, GoceDelcev University, Stip, Republic of Macedonia,* [2]*Life and Health Sciences, Aston University, Birmingham, UK, and* [3]*Department of Haemodialysis, Clinical Hospital, Stip, Republic of Macedonia*

JOURNAL OF PROTEOMICS 92 (2013) 323–334

Available online at www.sciencedirect.com

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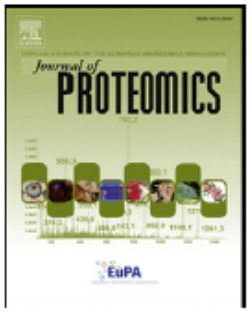


Review

# Oxidative stress and protein carbonylation in adipose tissue — Implications for insulin resistance and diabetes mellitus☆

*Tatjana Ruskovska*[a,*], *David A. Bernlohr*[b]

[a]*Faculty of Medical Sciences, Goce Delcev University, Stip, Former Yugolav Republic of Macedonia*
[b]*Department of Biochemistry, Molecular Biology and Biophysics, The University of Minnesota, Minneapolis, USA*

# EXPERIMENTAL MODEL

- **3T3L1 adipocytes**

- **Treatment with TNFα**
  - 0.1nM; 0.5nM; 1.0nM for 24h

EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

POSITIVe

# POSITIVe: Interindividual variation in response to consumption of plant food bioactives and determinants involved

Leader: Dr. Christine Morand

Working group 2

1. Subgroup: Meta-analysis
2. Subgroup: Cell and Molecular Targets

# Subgroup: Meta-analysis

*nutrients*

MDPI

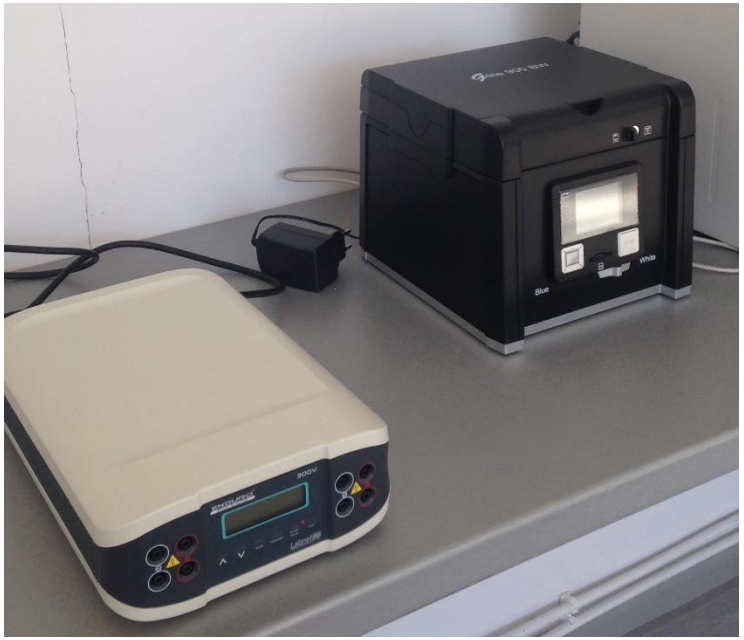
*Review*

## Impact of Flavonols on Cardiometabolic Biomarkers: A Meta-Analysis of Randomized Controlled Human Trials to Explore the Role of Inter-Individual Variability

Regina Menezes [1], Ana Rodriguez-Mateos [2], Antonia Kaltsatou [3], Antonio González-Sarrías [4], Arno Greyling [5], Christoforos Giannaki [6], Cristina Andres-Lacueva [7], Dragan Milenkovic [8], Eileen R. Gibney [9], Julie Dumont [10], Manuel Schär [11], Mar Garcia-Aloy [7], Susana Alejandra Palma-Duran [12], Tatjana Ruskovska [13], Viktorija Maksimova [13], Emilie Combet [12] and Paula Pinto [1,14,*]

1 iBET/ITQB, Molecular Nutrition & Health Laboratory, 2780-157 Oeiras, Portugal; rmenezes@ibet.pt
2 Division of Diabetes and Nutritional Sciences, Faculty of Life Sciences and Medicine, King's College London, London SE1 9NH, UK; ana.rodriguez-mateos@kcl.ac.uk
3 FAME Laboratory, School of Exercise Science, University of Thessaly, 42100 Volos, Greece; akaltsat@gmail.com
4 CEBAS-CSIC, E-30100 Murcia, Spain; agsarrias@cebas.csic.es

Subgroup analysis showed a more pronounced effect of flavonol intake in participants from Asian countries and in participants with diagnosed disease or dyslipidemia, compared to healthy and normal baseline values.

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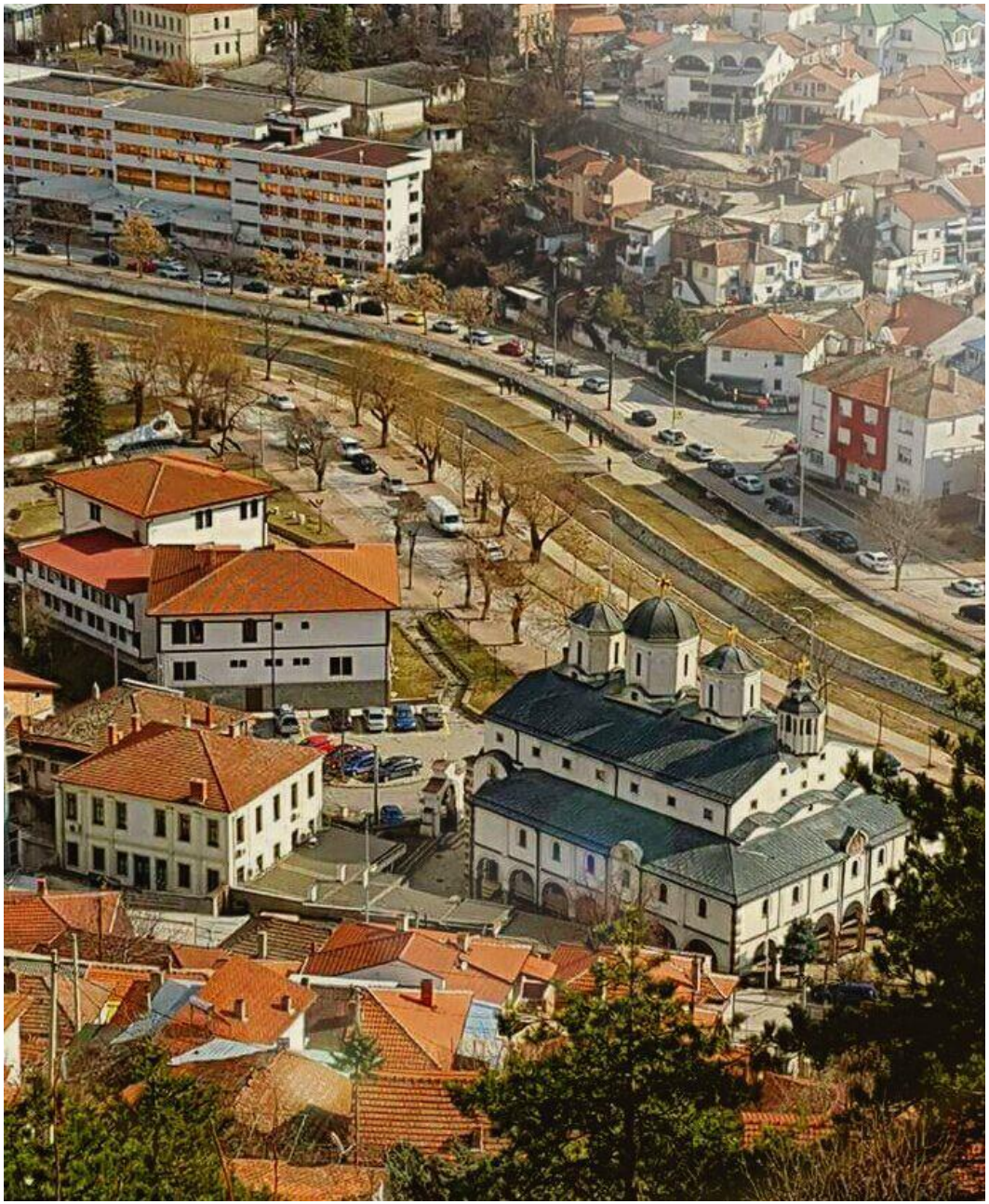

# Thank you for your attention!