Scientific Program

METABOLIC STRESS AND REDOX REGULATION

Radisson Blu Hotel, Berlin, June 21-23, 2017 | Room Saphir

08:30–10:30	**SFRR-E EXECUTIVE COMMITTEE MEETING**
10:30–12:30	**SFRR-E COUNCIL MEETING**
10:00–13:00	**REGISTRATION**
13:00–13:30	**WELCOME** Tilman Grune *(Organizer)* Helmut Sies *(Organizer)* Dean P. Jones *(OCC President)* Josiane Cillard *(SFRR-Europe President)*
13:30–14:15	**SFRR-E BASIC SCIENCE AWARD LECTURE** *Chairs:* Josianne Cillard, Tilman Grune **Mechanisms of Redox Signal Propagation** (L 01) Tobias Dick Division of Redox Regulation, German Cancer Research Center, Heidelberg, Germany
14:15–15:00	**SFRR-E CATHERINE PASQUIER AWARD LECTURE** *Chairs:* Michael J. Davies, Regina Brigelius Flohé, Giuseppe Poli **Selenium and Selenoproteins in Redox Signaling** (L 02) Anna Kipp Friedrich Schiller University Jena, Germany **The Silver Lining of Cerebrosterol in Alzheimer's Disease: the Involvement of Sirtuin 1 in Neuroprotection** (L 03) Paola Gamba Department of Clinical and Biological Sciences, University of Turin, Orbassano, Turin, Italy
15:00–15:30	**COFFEE/DRINKS**

SESSION I AGING AND REDOX SIGNALS

Chairs: Annika Höhn, Malcolm Jackson

15:30–15:50	**Treatment of Sarcopenia by Targeting Akt- and Muscle-specific Ubiquitin Ligases. Evidence from Mice and from a Clinical Trial** (OP 01) José Viña Department of Physiology, University of Valencia, Valencia, Spain
15:50–16:10	**Reactive Oxygen Species in Tissue Repair and its Disorders** (OP 02) Karin Scharffetter-Kochanek Department of Dermatology and Allergic Diseases, University of Ulm, Ulm, Germany
16:10–16:30	**Modulation of Parkin-dependent Mitophagy, and Mitochondrial Health** (OP 03) Antonio Zorzano Institute for Research in Biomedicine (IRB Barcelona), Barcelona Institute for Science and Technology, Barcelona, Spain
16:30–16:50	**Redox Signals in Healthspan and Metabolic Disease** (OP 04) Michael Ristow Energy Metabolism Laboratory, Swiss Federal Institute of Technology, Zurich, Switzerland
16:50–17:20	**COFFEE/DRINKS**

SESSION II REDOX SIGNALING AND TRANSCRIPTION

Chairs: Hüveyda Başağa, Helen Griffiths

17:20–17:40	**Mitochondrial Network Responses in Oxidative Physiology and Disease** (OP 05) Dean P. Jones Department of Medicine, Emory University, Atlanta, Georgia
17:40–18:00	**Redox Regulation of FOXO Transcription Factors – Role of Glutathione** (OP 06) Lars-Oliver Klotz Institute of Nutrition, Department of Nutrigenomics, Friedrich-Schiller University Jena, Jena, Germany
18:00–18:20	**Delayed Antioxidant Enzyme Increases Induced by Nanoparticles are Mediated by NF-kappa B** (OP 07) Henry J. Forman School of Gerontology, University of Southern California, Los Angeles, CA, USA
18:20–18:40	**Recapitulating Physiological Normoxia *in vitro* to Discriminate Nrf2 Regulated Gene Transcription** (OP 08) Giovanni E. Mann Cardiovascular Division, BHF Centre of Research Excellence, Faculty of Life and Health Sciences, King's College London, London, UK
19:00–21:00	**WELCOME RECEPTION, POSTERS, AND EXHIBITION**

07:45–08:30 **EARLY MORNING SCHOOL**

Chair: Tilman Grune

Measurement of Reactive Sulfur: Chemical, Biological, and Clinical Implications (L 04)

Christopher Kevil

Department of Pathology, Louisiana State University Health Sciences Center, Shreveport, LA, USA

08:30–09:15 **SFRR-E ANNUAL AWARD LECTURE**

Chairs: Juan Sastre, Cesar Fraga

Protein Oxidation: Beyond the Cell (L 05)

Michael J. Davies

Cellular and Metabolic Research Section, University of Copenhagen, Denmark

09:15–10:00 **VITAMIN E FORUM**

Chairs: Juan Sastre, Cesar Fraga

Global Vitamin A and E Status – Perspectives for Nutrition (L 06)

Manfred Eggersdorfer

DSM Nutritional Products, Basel, Switzerland, and University of Groningen, Netherlands

Vitamin E Deficiency Causes a Metabolic Reprogramming Dysregulating Cellular Energy Homeostasis (L 07)

Maret G. Traber

Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

10:00–10:30 **COFFEE/DRINKS**

SESSION III REDOX REGULATION OF PROTEOSTASIS

Chairs: José Castro, Ralf Brandes

10:30–10:50	**Oxidized Protein Homeostasis: Implication of Circadian Rhythm, Oxidative Stress, and Ageing** (OP 09) Bertrand Friguet Biological Adaptation and Ageing-IBPS, Sorbonne Université, Paris, France
10:50–11:10	**Importance of The Mitochondrial Lon Protease in Age- and Sex-Specific Adaptation to Oxidative Stress** (OP 10) Kelvin J.A. Davies School of Gerontology, University of Southern California, Los Angeles, CA, USA
11:10–11:30	**Diet Constituents as Proteasome Activators: A Promising Strategy Against Aging and Aggregation** (OP 11) Niki Chondrogianni Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece
11:30–11:50	**Thiol- and Heme-dependent Peroxide Detoxification Enzymes in Pathogens: Role in Infectivity and Virulence** (OP 12) Rafael Radi Departamento de Bioquímica, Facultad de Medicina, Universidad de la República, Montevideo, Uruguay
11:50–12:10	**The Role of Macroautophagy in Senescent Cells and Aged Tissue** (OP 13) Christiane Ott Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbrücke, Nuthetal, Germany
12:10–14:00	**POSTERS, EXHIBITION, AND LUNCH** **YOUNG INVESTIGATOR LUNCH SESSION**

12:45–13:45 **YOUNG INVESTIGATOR LUNCH SESSION**

Chairs: Daniela Caporossi, Patricia Oteizia

12:45–12:57 **Identification of Potentially Therapeutic Short Cyclic Peptides Against Protein Misfolding Diseases** (YO 01)

Dafni Chrysanthi Delivoria
Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece

12:57–13:09 **Inhibition of the Mitochondrial Thioredoxin System by three Metal-Organic Tamoxifen Derivatives Determines a Redox Imbalance inducing Apoptosis in Jurkat Cells** (YO 02)

Valeria Scalcon
University of Padova, Department of Biomedical Sciences, Padova, Italy

13:09–13:21 **Acute Pancreatitis and Cystinosis as Experimental Models of Disulfide Stress Characterized by Protein Cysteinylation** (YO 03)

Isabella Finamor
Department of Physiology, Faculty of Pharmacy, University of Valencia, Burjassot, Valencia, Spain

13:21–13:33 **Full Basal Transactivation Activity of FOXO1 Depends on its Cys612** (YO 04)

Dimitrios Tsitsipatis
Friedrich Schiller University Jena, Germany

13:33–13:45 **Long-term Contribution of Nrf2 to Behavioral Recovery Following Focal Cerebral Ischemia-Reperfusion Injury** (YO 05)

Keith Farrell-Dillon
King's College London, United Kingdom

SESSION IV REDOX CONTROL IN DISEASE

Chairs: Katrin Schröder, Corinne Spickett

14:00–14:20	**Ferroptotic Cell Death: Does the Iron Go "Wild" or Stay Enzymatically Controlled?** (OP 14) Valerian Kagan Department of Environmental and Occupational Health, University of Pittsburgh, Pittsburg, PA, USA
14:20–14:40	**Tocotrienols Induce the Expression of Specific miRNA in Breast Cancer Cells** (OP 15) Fabio Virgili National Research Institute for Food and Nutrition, Rome, Italy
14:40–15:00	**Role of Glutathione Biosynthesis in Endothelial Dysfunction and Fibrosis** (OP 16) Santiago Lamas Department of Cell Biology and Immunology, Centro de Biología Molecular "Severo Ochoa" (CBMSO), Madrid, Spain
15:00–15:20	**Tea Extracts-induced Liver Injury: Lipotoxic Interaction Between Lipids and Polyphenols** (OP 17) Oren Tirosh Institute of Biochemistry, Food Science and Nutrition, The Hebrew University of Jerusalem, Israel
15:20–15:50	**COFFEE/DRINKS**

SESSION V THIOL SWITCHES

Chairs: Tobias Dick, Anna Kipp

15:50–16:10 **Molecular Mechanisms of Regulated Cell Pattering by the Mammalian Thioredoxin System** (OP 18)

Elias S. Arnér

Division of Biochemistry, Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, Sweden

16:10–16:30 **Localized Hydrogen Peroxide Metabolism and Cardiovascular Signal Transduction** (OP 19)

Thomas Michel

Cardiovascular Division, Harvard Medical School, Boston, USA

16:30–16:50 **SPP1710 "THIOL SWITCHES" SPECIAL SESSION**

Mitochondrial ROS and Ageing (OP 20)

Alberto Sanz

Institute for Cell and Molecular Biosciences & Institute for Ageing Newcastle University, Newcastle upon Tyne, UK

16:50–17:10 **Metabolic Adaptation to Oxidative Stress** (OP 21)

Markus Ralser

Molecular Biology of Metabolism Laboratory University of Cambridge and The Francis Crick Institute, London, UK

17:10–18:30 **POSTERS & EXHIBITION**

17:30–18:30 **SFRR-E GENERAL ASSEMBLY MEETING**

08:30–09:15 **OCC KEYNOTE LECTURE**

Chairs: Tilman Grune, Giovanni Mann

RNA as a Regulator of Gene Expression in our Brain: from Circular RNAs to Single Cell Sequencing (L 08)

Nikolaus Rajewsky

Systems Biology of Gene Regulatory Elements, Max Delbrück Center for Molecular Medicine Berlin-Buch, Germany

09:15–10:00 **SFRR-E CLINICAL SCIENCE AWARD LECTURE**

Chairs: Tilman Grune, Giovanni Mann

Signaling by Oxidized Lipids in Acute Brain Injury (L 09)

Hülya Bayır

Department of Critical Care Medicine, Children's Hospital of Pittsburgh, University of Pittsburgh, Pittsburgh, PA, USA

10:00–10:30 **COFFEE/DRINKS**

SESSION VI MITOCHONDRIA AND INFLAMMATION

Chairs: Enrique Cadenas, Gerald Rimbach

10:30–10:50	**Chronic Hypoxic Stress and Mitochondrial Responses** (OP 22) Bernhard Brüne Faculty of Medicine, Institute of Biochemistry I – Pathobiochemistry, Goethe-University Frankfurt, Frankfurt, Germany
10:50–11:10	**Horizontal Mitochondrial Transfer and Tumor Initiation** (OP 23) Jiri Neuzil School of Medical Science, Griffith University,Brisbane, Australia
11:10–11:30	**Novel Dysregulation of Mitochondria Impacts Brain Insulin Signaling** (OP 24) Andre Kleinridders Junior Research Group Central Regulation of Metabolism, German Institute of Human Nutrition Potsdam-Rehbrücke, Nuthetal, Germany
11:30–11:50	**Evaluation of Cytokine Suppressive Anti-inflammatory Drugs (CSAIDs) in a Mouse Model of Chronic Neuroinflammation** (OP 25) Gerald Münch Department of Pharmacology, School of Medicine, Western Sydney University, Campbelltown, Australia
11:50–12:10	**Regulation of Neurovascular Coupling in the Brain by Nitrite** (OP 26) João Laranjinha Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal
12:10–14:00	**POSTERS, EXHIBITION, AND LUNCH** **YOUNG INVESTIGATOR LUNCH SESSION**

12:45–13:45 **YOUNG INVESTIGATOR LUNCH SESSION**

Chairs: Daniela Caporossi, Patricia Oteizia

12:45–12:57 **Collagen Modifications by Methylglyoxal and their Impact on Cell Functionality and Aging** (YO 06)

Kerstin Nowotny

Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbrücke (DIfE), Nuthetal,Germany

12:57–13:09 **Alpha-(13'-hydroxy)-6-Hydroxychroman, the Main Product of Alpha-Tocopherol Metabolism in Human Hepatocytes, Regulates CYP4F2 and PPAR-γ Expression** (YO 07)

Pierangelo Torquato

Department of Pharmaceutical Sciences, University of Perugia, Italy

13:09–13:21 **Detection and Characterization of Oxidative Modifications to Extracellular Matrix Proteins** (YO 08)

Tina Nybo

Department of Biomedical Sciences, University of Copenhagen, Copenhagen

13:21–13:33 **Genetic Screen of Arabidopsis cat2 Suppressor Mutants to Understand the Signaling Pathways Leading to Photorespiratory H2O2-induced Cell Death** (YO 09)

Aleksandra Lewandowska

VIB-UGent Center for Plant Systems Biology, Gent, Belgium

13:33–13:45 **ROS is the Boss** (YO 10)

Jonas Hahn

Department of Medicine 3, University of Erlangen-Nuremberg, Erlangen, Germany

SESSION VII METABOLIC STRESS, NEURODEGENERATION, AND AGING

Chairs: André Kleinridders, Henry J. Forman

14:00–14:20	**Cellular Senescence: At the Nexus of Mechanisms of Age- and Obesity-Related Metabolic Dysfunction** (OP 27) James L. Kirkland Robert and Arlene Kogod Center on Aging, Mayo Clinic, Rochester, USA
14:20–14:40	**The Role of the Adipocytic Lineages in the Development of Age-related Metabolic Disorders** (OP 28) Tim J. Schulz Department of Adipocyte Development and Nutrition, German Institute of Human Nutrition Potsdam-Rehbrücke, Nuthetal, Germany
14:40–15:00	**Brain Glucose Metabolism in Obesity** (OP 29) Jens C. Brüning Neuronal Control of Metabolism, Max-Planck-Institute for Metabolism Research, Cologne, Germany
15:00–15:20	**Protective Effects of Fat-1 Gene Against UVB-induced Oxidative Stress and Inflammation in Mouse Skin** (OP 30) Young-Joon Surh Tumor Microenvironment Global Core Research Center, Seoul National University, South Korea
15:20–15:50	**COFFEE/DRINKS**

SESSION VIII OXIDATIVE DAMAGE IN DISEASE

Chairs: Holger Steinbrenner, Nesrin Kartal-Özer

15:50–16:10	**Protein Oxidation and Protein Redox Interactions in Metabolic and Inflammatory Diseases** (OP 31) Corinne Spickett Aston University (Birmingham), Health and Life Sciences, UK
16:10–16:30	**4-Hydroxynonenal as Biomarker of Redox Regulation in Pathophysiology of Metabolic Stress** (OP 32) Neven Žarković Laboratory for Oxidative Stress, Rudjer Boskovic Institute, Zagreb, Croatia
16:30–16:50	**Lipid Peroxidation, Lipohormesis and Lipotoxicity in Diabetes** (OP 33) Shlomo Sasson Institute for Drug Research, School of Pharmacy, The Hebrew University of Jerusalem, Jerusalem, Israel
16:50–17:10	**Oxysterols, Metalloproteinases, and Atherosclerotic Plaque Rupture** (OP 34) Guiseppe Poli Department of Clinical and Biological Sciences, University of Torino, Torino, Italy
17:10–17:30	**CONCLUDING REMARKS** Tilman Grune *(Organizer)* Helmut Sies *(Organizer)*
from 19:00	**CONFERENCE DINNER, POSTER PRIZES AND AWARDS** **Hamburger Bahnhof – Museum für Gegenwart Berlin (Museum for Contemporary Art)** Invalidenstraße 50-51, 10557 Berlin

P 001 | Methyl jasmonate ameliorates testosterone propionate-induced prostatic hyperplasia in castrated Wistar rats
Oluwatosin Adaramoye, Olubukola Akanni, Olusoji Abiola

P 002 | N-γ-(L-Glutamyl)-L-selenomethionine enhances stress resistance and ameliorates aging indicartors in Caenorhabditis elegans
Chun-Han Chang, Chi-Tang Ho, *Vivian Liao* *(poster was withdrawn)*

P 003 | Ambient UV-B exposure attenuate the binding affinity of ofloxacin with bacterial DNA gyrase and induced apoptosis in human keratinocytes via ROS mediated pathway
Jyoti Singh, Ashish Dwivedi, Deepti Chopra, Krishna P Singh, Ajeet Srivastav, Divya Dubey, Smita Kumar, Ratan Ray

P 004 | Interaction of amyloid β with free heme: Role of peroxidase activity in Alzheimer's disease?
Jörg Flemmig, Elisabeth Maria Chiziane, Henriette Telemann, Jürgen Arnhold
(poster was withdrawn)

P 005 | Oxidative stress markers in Cuban centenarians
Gretel Riveron-Forment, Marisol Peña-Sanchez, Anamarys Pandolfi-Blanco, Lilia Caridad Marin-Padron, Olivia Martinez-Bonne, Evelyn Fuentes-Smith, *Nayade Pereira-Roche*

P 006 | Cytochrome c-cardiolipin complex: from peroxidase to Fenton chemistry
Uladzimir Barayeu, Jörg Flemmig, Oleg Shadyro, Jürgen Arnhold

P 007 | Loss of KRIT1 causes a sustained activation of an adaptive cellular allostatic response that counteracts intrinsic oxidative stress but sensitizes cells to further oxidative challenges
Saverio Francesco Retta

P 008 | Formation of cyanogen iodide by heme peroxidases
Juergen Arnhold, Schlorke Denise, Atosuo Janne, Flemmig Joerg, Lilius Esa-Matti

P 009 | Oxygen levels and free-radical processes in biosystems
Oleg Shadyro

P 010 | UV-induced free radical transformations of sphingolipids
Alexandra Lisovskaya, Kirill Procenko, Oleg Shadyro

P 011 | Mycosporine-like amino acid activation of the Keap1-Nrf2 pathway
Ranko Gacesa, David Barlow, Walter Dunlap, Nikolaos Georgakopoulos, Geoffrey Wells, Paul Long

P 012 | **The Enzymatic Nature of Ascorbate Recycling**
David Richard Young, Nandita Bodra, Leonardo Rosado, Joris Messens

P 013 | **Copper(II)-induced Cytotoxicity and Oxidative Stress in Human Blood Cells and its Attenuation by Carnosine**
Nazim Husain, Riaz Mahmood

P 014 | **Rapid ascorbate response to bacterial elicitor treatment in Arabidopsis thaliana cells**
András Szarka, Péter Hajdinák, Ádám Czobor

P 015 | **Cellular redox status mediates adaptive response to ionizing radiation in human peripheral blood mononuclear cells**
Neha Paraswani, Maikho Thoh, Anu Ghosh

P 016 | **Cytoprotective effects of Chilean wild currants (Ribes spp.) against oxidative stress mediated by enhancing the activity of cellular antioxidant enzymes**
Felipe Jiménez-Aspee, Cristina Theoduloz, Guillermo Schmeda-Hirschmann

P 017 | **Changes in expression of NLRP3 inflammasome components and oxidative parameters of mice subjected to high-fat diet and rosa mosqueta oil supplementation**
Daniel González-Mañán, Camila Dossi, Gladys Tapia

P 018 | **Free radical pathway of 2-hexadecenal formation in cells and its biological role**
Alexandra Lisovskaya, Nadezda Amaegberi, Galina Semenkova

P 019 | **Alterations of cultured myotubes and fasting plasma metabolite profiles related to mitochondrial dysfunction in Type 2 diabetes subjects**
Mohamad Hafizi Abu Bakar, Hasniza Zaman Huri, Nany Hairunisa

P 020 | **Anti-oxidative potential and biocompounds of five Lamiaceae family herbal species**
Roozbeh Farhoudi

P 021 | **Chemical constituents and antioxidant properties of Matricaria recutita and Chamaemelum nobile essential oil growing in south west of Iran**
Roozbeh Farhoudi, Dong-Jin Lee

P 022 | **Antioxidants for the stabilization of flaxseed oil**
Oleg Shadyro, Anna Sosnovskaya, Irina Edimecheva, Alexandra Lisovskaya

P 023 | Differential antioxidant protection against oxidants by esculetin or quercetin in human leukemia NB4 cells
Virginia Rubio, Ana I. García-Pérez, Angel Herráez, Carlos Ordóñez, Gema Herranz, M. Cristina Tejedor, *José C. Diez*

P 024 | Nrf2 and NFkB involvement in the antioxidant action of esculetin or quercetin in human leukemia NB4 cells
Virginia Rubio, Ana I. García-Pérez, Angel Herráez, Carlos Ordóñez, Gema Herranz, M. Cristina Tejedor, *José C. Diez*

P 025 | Oxidative damage, antioxidant defense and DNA repair capacity in patients with Primary Dyslipidemia
Nayade Pereira-Roche, Gretel Riverón-Forment, Reinaldo Gutiérrez-Gutiérrez, Alfredo Nasiff-Hadad, Judith Pupo-Balboa, Anamarys Pandolfi-Blanco

P 026 | Moderate maternal caloric restriction affects mitochondrial biogenesis and redox homeostasis in the pups' hypothalamus
Vinícius Stone, Pauline Maciel August, Caroline Peres Klein, Mariana Scortegagna Crestani, André Brum Saccomori, Bárbara Mariño dal Magro, Bernardo Gindri dos Santos, *Cristiane Matté*

P 027 | Naringin supplementation during pregnancy reduces mitochondrial function and modifies redox network system in offspring's cerebellum and striatum
Bernardo Gindri dos Santos, Caroline Peres Klein, Régis Matheus Hozer, Pauline Maciel August, Mariana Scortegagna Crestani, André Brum Saccomori, Bárbara Marino Dal Magro, Cristiane Matté

P 028 | 2-Deoxy-D-ribose depletes intracellular GSH content through inhibition of cystine transport
Eun-Jin Yang, Soyeon Yoo, Sang Ah Lee, *Gwanpyo Koh* *(poster was withdrawn)*

P 029 | Free radical transformations of hydroxyl-containing amino acids and related compounds in aqueous solutions
Anastasiya Alekseevna Sladkova, Anna Alekseevna Sosnovskaya, Irina Petrovna Edimecheva, Sviatlana Nikolaevna Samovich

P 030 | Radical-regulatory and anti-tumor properties of quinone derivatives
Sviatlana Nikolaevna Samovich, Nina Georgievna Krylova, Irina Petrovna Edimecheva, Anastasia Vasilevna Malikova, Tatyana Alexandrovna Kulahava, Galina Nikolaevna Semenkova

P 031 | **Antioxidant supplementation during pregnancy enhances mitochondrial function and alters redox status on offspring's cerebellum**
Pauline Maciel August, Mateus Grings, Tiago Boeira Salomon, Mara da Silveira Benfato, Guilhian Leipnitz, Cristiane Matté

P 032 | **Modulation of Melanoma Cell Proliferation and Spreading by Novel Small Molecular Weight Antioxidants**
Qurat- ul- Ain, M. Iqbal Choudhary, Karin Scharffetter Kochanek

P 033 | **Oxidative and nitrosative stress damage induced by Tacrolimus in brain of rat: protective effect of Mycophenolate mofetil**
Hanen Ferjani, Ines Amara, Rim Timoumi, Hassen Bacha, Imen Boussema-Ayed

P 034 | **By downregulating transcription of PARP1, CDK4/6 inhibitors sensitise human lung cancer cells to oxidative stress-induced DNA damage triggered by WP631 and etoposide**
Dominika Tempka, Paulina Tokarz, Kinga Chmielewska, Julita Pietrzak, *Agnieszka Zdzislawa Robaszkiewicz*

P 035 | **Melatonin as an antioxidant treatment for oxidative blood disorders: validation of a red blood cell auto incubation model**
Danilo Grünig Humberto da Silva, Nayara Alves Chaves, Sayuri Miyamoto, Eduardo Alves de Almeida

P 036 | **Effect of urea in the reaction of nucleosides with hypobromous acid**
Toshinori Suzuki, Masashi Kumagai

P 037 | **Effect of Neutral Sphingomyelinase Inhibition on ER Stress and Apoptosis in Liver Ischemia–Reperfusion Injury**
Mutay Aslan, Hazal Tuzcu, Betul Unal, Ebru Kırac, Esma Konuk, Filiz Ozcan, Gulsum O. Elpek, Necdet Demir

P 038 | **Role of the myeloperoxidase oxidant hypothiocyanous acid (HOSCN) in the adaption of cells to oxidative stress during inflammation**
Dominic Love, Tessa Barrett, *Clare Hawkins*

P 039 | **Mass Spectrometric Identification of Collagen Alpha-1 (III) Chain and Chondroitin Sulfate Proteoglycan-4 Nitration in Patients with Acute Pulmonary Embolism: A Preliminary Study**
Mutay Aslan, Filiz Ozcan, Zeynep Avcil, Oktay H. Ozturk, Cenker Eken

P 040 | **A role for chlorinated nucleosides in the promotion of inflammation and endothelial dysfunction in atherosclerosis?**
Vickie Tang, Jessica Macer-Wright, Shanlin Fu, Benjamin Rayner, *Clare Hawkins*

P 041 | Redox control of renal metabolism and transport function by the NADPH oxidase Nox4
Flavia Rezende, Oliver Löwe, Maria Walter, Maik Pfitzner, Sven Zukunft, Ralf Brandes, Katrin Schröder

P 042 | The protective effect of hesperetin on UVA-induced matrix metalloproteinase-1 (MMP-1) in primary human dermal fibroblasts and mouse skin through modulation of nuclear factor erythroid 2- related factor 2 (NRF2)-regulated antioxidant defenses
Anyamanee Chaiprasongsuk, Jinapath Lohakul, Uraiwan Panich

P 043 | Oxidative stress is related to frailty, not to age or sex, in a geriatric population
Marta Ingles, Juan Gambini, Mar Dromant, Cristina Mas-Bargues, Lucia Gimeno-Mallench, *Consuelo Borras*, Jose Vina

P 044 | Thai herbal antipyretic 22 formula inhibits melanogenesis through activation of NRF2-regulated antioxidant defense in UVA-irradiated B16 melanoma cells
Uraiwan Panich, Tasanee Onkoksoong, Naravat Poungvarin, Saowalak Limsaengurai, Onusa Thamsermsang, Pravit Akarasereenont

P 045 | The activation of the endoperoxide ascaridole in Leishmania
Lars Gille, Gerald Geroldinger, Matthias Tonner, Hubert Hettegger, Markus Bacher, Lianet Monzote, Martin Walter, Katrin Staniek, Thomas Rosenau

P 046 | Cordycepin induced MA-10 mouse Leydig tumor cell apoptosis by regulating p38 MAPKs and PI3K/AKT signaling pathways
Bu-Miin Huang

P 047 | The mechanisms of histamine N-methyltransferase (HNMT)-mediated Herceptin® drug-resistance in breast cancer cells
Tzu-Chun Cheng, Li-Ching Chen, *Yuan-Soon Ho*

P 048 | Garcinia kola – African ethno medication with anti-atherosclerotic effects?
Maria Wallert, Julia Heise, Yung Chih Chen, Stefan Kluge, Lisa Schmölz, Martin Schubert, Amy Kate Searle, Andreas Koeberle, Francesco Galli, Oliver Werz, Marc Birringer, Stefan Lorkowski, Karlheinz Peter

P 049 | Hydrogen peroxide formation by Nox4 limits malignant transformation
Valeska Helfinger, Nina Henke, Ralf P. Brandes, Katrin Schröder

P 050 | S-nitrosoglutathione potentiates protein S-nitrosation under oxidative stress, a potential improvement of NO storage into smooth muscle cells
Eugenia Belcastro, Wen Wu, Isabelle Fries, Alessandro Corti, Alfonso Pompella, Pierre Leroy, Isabelle Lartaud, *Caroline Gaucher*

P 051 | Intracerebroventricular injection of glycine alters enzymatic antioxidant defenses in rat striatum: prevention by bezafibrate
Belisa Parmeggiani, Mateus Grings, Moacir Wajner, Guilhian Leipnitz

P 052 | Thioredoxins, glutaredoxins and peroxiredoxins in redox-dependent formation of cancer cell resistance
Elena Kalinina, Nikolai Chernov, Maria Novichkova, Numurad Nurmuradov

P 053 | Piceatannol exerts anti-obesity effect through modulating adipogenic proteins and gut microbiota in C57BL/6 mice
Min-Hsiung Pan, Yen-Chen Tung, Nagabhushanam Kalyanam, Yu-Hsuan Lin, Chi-Tang Ho

P 054 | Mitochondrial dynamics impairment leads to adipogenesis failure
José Pedro Castro, Raquel S. Lopes Fernando, Martín Hugo, Kerstin Nowotny, Tobias Jung, Kristina Wardelmann, André Kleinridders, Tilman Grune

P 055 | Inhibition of glycogen synthase kinase-3β reduces ROS production and alters antioxidant enzyme activities in MPP+-induced neuronal cell death
Güliz Armagan, Elvin Sevgili, Tuğçe Bilgiç, Fulya Tuzcu Gürkan, Taner Dağcı

P 056 | Novel redox-targets of NADPH oxidase 4 identified by the BIAM switch assay
Oliver Löwe, Juliana Heidler, Ilka Wittig, Flavia Rezende, Franziska Moll, Katrin Schröder, Ralf P. Brandes

P 057 | Mechanosensitive microRNAS in endothelial responses to shear stress and Nrf2-mediated redox signalling
Phoebe Kitscha, Giovanni E Mann, Richard C Siow

P 058 | PGC-1α downregulation in steatotic liver enhances ischemia-reperfusion injury and impairs ischemic preconditioning
Cristina Sánchez-Ramos, Ignacio Prieto, Alberto Tierrez, Javier Laso, M. Pilar Valdecantos, Ramon Bartrons, Joan Roselló-Catafau, *Maria Monsalve*

P 059 | Anti-oxidant and anti-inflammatory effects of a flavonoid-rich extract from orange juice in experimental colitis
Roberta Fusco, *Santa Cirmi*, Enrico Gugliandolo, Rosanna Di Paola, Salvatore Cuzzocrea, Michele Navarra

P 060 | New radical-regulatory properties of tryptophan and its derivatives
Raman Leanidovich Sviardlou, Svyatoslav Dmitrievich Brinkevich, Oleg Iosifovich Shadyro

P 061 | N,N.N',N'-tetramethylhydroethidine (TMHE) – in search for better probes for the detection of superoxide radical anion
Adam Sikora, Radosław Michalski, Micael Hardy, Olivier Ouari, Jan Adamus, Andrzej Marcinek, Jacek Zielonka, Balaraman Kalyanaraman

P 062 | In vivo recording of epidermal stem cell redox state
Alexander Martin Wolf, Shigeo Ohta

P 063 | Violation of reproductive function in female rats at an intoxication dust aerosols Aral Sea
Yasminur Gabdulkhakovna Turdybekova, Leyla Saruarovna Appazova, Berikbai ZHukenovich Kultanov, Zhanbolat Gabitovich Ibraibekov, Rosa Esimova

P 064 | Zero-valent Iron Nanoparticles Inhibited Head and Neck Cancer Cells Growth: A Pilot Evaluation and Mechanistic Characterization
Kuang-Jing Huang, Shang-Rung Wu, Dar-Bin Shieh

P 065 | Effect of GCEE or GCEE-loaded microspheres Administration on the Levels of Glutathione and Thiol Redox Molecules in Rat Brain
Ayfer Yalcin, Sinem Ezgi Turunc, Gulbeyaz Yildiz Turkyilmaz, Lutfiye Kanit, Ercument Karasulu

P 066 | Validation study of a food frequency questionnaire for the measurement of food consumption in polyphenols : use of a urinary bioamarker. Preliminary results
Axelle Hoge, Michele Guillaume, Anne -Françoise Donneau, Adelin Albert, Jean-Paul Cheramy-bien, Jessica Tabart, Claire Kevers, Jacques Dommes, Jean-Olivier Defraigne, *Joel Pincemail*

P 067 | Protective mechanism of Eucommia ulmoids flavone (EUF) on enterocyte damage induced by LPS
Tarique Hussain, Bie Tan, Najma Rahu, Dildar Hussain Kalhoro, Rahim Dad, Yulong Yin

P 068 | Effect of dust-salt aerosols of the Aral Sea on biochemical indices in the rats' testicular homogenate
Didar Bekezhanovich Okasov, Zhanbolat Gabitovich Ibraibekov, Berikbay Zhukenovich Kultanov, Nurtas Isataevich Tursunov

P 069 | Reductive stress in pathophysiology
Jose Vina, Consuelo Borras, Mari Carmen Gomez-Cabrera, Ana Lloret, Aitor Carretero

P 070 | Environmental noise and particulate matter exposure, oxidative stress and vascular function – the underestimated cardiovascular risk factors
Andreas Daiber

P 071 | Taking up the cudgels for the traditional reactive oxygen and nitrogen species detection assays and their use in the cardiovascular system
Andreas Daiber, Matthias Oelze, Sebastian Steven, Swenja Kröller-Schön, Thomas Münzel

P 072 | Oxidative modifications of α- and β- caseins induced by AAPH-derived peroxyl radicals: Role of tryptophan and tyrosine residues
Eduardo Felipe Fuentes-Lemus, Camilo López-Alarcón, Eduardo Silva, Fabian Leinisch, Michael J. Davies

P 073 | Validated routine-ready UHPLC/MS-MS method for the reference range determination in human plasma of 15-f2t-isoprostane, biomarker of the oxidative stress
Joël Pincemail, Thomas Dubrowski, Thierry Durand, Patrice Chiap, Corinne Charlier, Anne-Françoise Donneau, Justine Bertrand-Michel, Aude Dupuy, Claire Vigor, Jean-Claude Van Heugen, Jean-Olivier Defraigne

P 074 | Identification of nitration sites in the extracellular matrix protein laminin
Lasse Gøbel Lorentzen, Michael Davies

P 075 | Modulation of oxidative stress response in neurodevelopment disorders. The case of the Rett syndrome variants: MECP2 and CDKL5
Alessandra Pecorelli, Carlo Cervellati, Joussef Hayek, Giuseppe Valacchi

P 076 | The importance of culturing primary cells under physiological conditions: proliferation, senescence, pluripotency
Cristina Mas Bargues, Jose Viña Almunia, Marta Ingles, Lucia Gimeno Mallench, Jorge Sanz Ros, Mar Dromant, Jose Viña, Consuelo Borras

P 077 | Clearing Amyloid-β through PPARγ/ApoE Activation by Genistein is a Treatment of Experimental Alzheimer's Disease
Cristina Mas Bargues, Marta Ingles, Lucia Gimeno Mallench, Jorge Sanz Ros, Vicent Bonet Costa, Vicente Herranz Perez, Patricia Garcia Tarraga, Mar Dromant, Consuelo Borras, Jose Manuel Garcia Verdugo, Jose Vina

P 078 | DNA damage, repair of single strand breaks, total antioxidant capacity and reduced glutathione levels in female patients with a family history of cancer
Judith Beatriz Pupo Balboa, *Nayade Pereira-Roche*, Marta Sonia Robaina Castellanos, Reinaldo Gutiérrez Gutiérrez, Anamarys Pandolfi Blanco, Claudia Pérez López, Yaisa Castillo Casaña, Gretel Riveron Forment, Gisselle Lemus Molina, Leyenis Valdés Ramos, Amelia Cabrera Marrero, Aimara de Armas Santiesteban

P 079 | Contribution of NADPH oxidase isoforms to angiotensin II-mediated oxidative stress and DNA damage in the mouse kidney
Nicole Schupp

P 080 | Effect of ozone oxidative stress on chloride current in human lung cells: Chemical mediators and protective role of catalase
Rita Canella, Mascia Benedusi, Carlotta Cavicchio, Franco Cervellati, Marta Martini, Giacomo Mingoia, Giuseppe Valacchi

P 081 | Identification and characterization of inter-species aging-related transcriptomic regulators
Leonid Rozanov, Johannes Mansfeld, Kim Zarse, Michael Ristow

P 082 | Nrf2 and NF-κB have a role in aldosterone-mediated oxidative damage
Christina Hartmann, Nicole Schupp

P 083 | The effect of a bespoke home based physical activity intervention on markers of oxidative stress and markers of general health in older adults
Sarah Aldred, Sahara Rai

P 084 | Therapeutic assessment of tirapazamine-induced oxidative stress on gastric cancers
Jungshan Chang, *Giimel Ajnai*, Pao-Ying Lin

P 085 | Characterization of vimentin-zinc interaction and its impact on the response to electrophilic and oxidative stress
Andreia Mónico, Silvia Zorrilla, Dolores Pérez-Sala

P 086 | Oxidative modifications cross-talk in redox regulation of cellular physiology
Eva Griesser, Giulia Coliva, *Andreia Mónico*, Dolores Pérez-Sala, Maria Fedorova

P 087 | NRF2 controls proteostasis through the transcriptional regulation of autophagy
Marta Pajares, Ana I Rojo, Antonio Cuadrado

P 088 | p38α and NF-κB regulate antioxidant defense in the liver through an age-dependent mechanism
Salvador Perez, Sergio Rius-Perez, Isabela Finamor, Ana Martinez, Pablo Marti, Angel Nebreda, Raquel Talens, Juan Sastre

P 089 | NRF2/KEAP1-mediated antioxidant defence pathway regulates skeletal muscle circadian clock function
Niamh S Horton, Ian M Copple, Aphrodite Vasilaki, Malcolm J Jackson, Anne McArdle, Vanja Pekovic-Vaughan

P 090 | Lipofuscin effects in Caenorhabditis elegans ageing model
Nikoletta Papaevgeniou, Annika Hoehn, Tilman Grune, Niki Chondrogianni

P 091 | N-acetylcysteine, an antioxidant with anti-adipogenic effect on adipocytes
Azul Pieralisi, Daniela Soto, Matias Gabrielli, Claudia N Martini, Virginia E Diz, Federico Rovner, Maria C Vila, Juan C Calvo, *Liliana N Guerra*

P 092 | Coordinated alteration of expression of redox-dependent genes in development of adaptive antioxidant response under formation of drug resistance of cancer cells
Elena Kalinina, Nikolai Chernov, Albina Petrova, Maria Novichkova

P 093 | Localized redox relays as a privileged mode of cytoplasmic hydrogen peroxide signaling
Rui D.M. Travasso, Fernando Sampaio dos Aidos, Pedro Abranches, Anahita Bayani, *Armindo Salvador*

P 094 | Scavenger receptor B1, a cutaneous sensor of pollution-induced oxidative damage
Ximena Maria Muresan, Giuseppe Belmonte, Franco Cervellati, Mascia Benedusi, Alessandra Pecorelli, Florian Gruber, Giuseppe Valacchi

P 095 | **Application of Resonance Raman spectroscopy for the direct detection of manganese porphyrins and their redox state in endothelial cells**
Sebastián Carballal, Valeria Valez, Damián Alvarez-Paggi, Artak Tovmasyan, Gerardo Ferrer-Sueta, Ines Batinic-Haberle, Daniel Murgida, Rafael Radi

P 096 | **Peroxiredoxins and the pro-inflammatory immune response**
William Charles Orr, Svetlana Radyuk, Vladimir Klichko, Marziyeh Badinloo, Olena Odnokoz

P 097 | **Is Twin Pregnancy being a Medical Boon? – Comparative Evaluation on Oxidative Stress in Multiple Pregnancy**
Payal Chakraborty, Krisztina N. Dugmonits, Ágnes Ferencz, Szabolcs Zahorán, Edit Hermesz

P 098 | **Protein thiol modifications in the development of the 'preeclampsia phenotype'**
Milda Bartkeviciute, Richard Cohen, Reiko Matsui, Asif Ahmed, *Colin Murdoch*

P 099 | **Redox Control of Skin and Mucosal Inflammatory Diseases by thioredoxin superfamily**
Junji Yodoi *(poster was withdrawn)*

P 100 | **Isothiocyanates trigger early disruption of mitochondrial function in cells overexpressing Bcl-2**
Emma S Spencer, Karina M O'Connor, Mark B Hampton

P 101 | **Macrophages from xCT-deficient mice survive under low cysteine/glutathione redox conditions with high oxidative stress**
Sho Kobayashi, Shinji Hamashima, Takujiro Homma, Junichi Fujii, Hideyo Sato

P 102 | **Interaction of nitrated/nitroxidized phospholipids with vimentin**
Tania Melo, Sofia Duarte, Pedro Domingues, Rosario M Domingues, *Dolores Pérez-Sala*

P 103 | **Proteomic analysis of rutin effect on human skin fibroblasts exposed to UVA or UVB irradiation**
Agnieszka G gotek

P 104 | **SOD mimic M40403 improves sperm fertilizing potential through activating NO/NRF2 signaling pathway**
Vesna Otasevic, Biljana Macanovic, Eliana Garalejic, Ivana Ivanovic-Burmazovic, Milos Filipovic, Biljana Buzadzic, Ana Stancic, Aleksandra Jankovic, Aleksandra Korac, Bato Korac

P 105 | A lesson from the oxidative metabolism of a hibernator's heart: strategy for cardioprotection
Sava Masovic, Ana Stancic, Aleksandra Jankovic, Biljana Buzadzic, Vesna Otasevic, Aleksandra Korac, Bato Korac

P 106 | Targeting of O2•-/NO ratio as a strategy to improve energy metabolism in diabetes
Ana Stancic, Milos Filipovic, Ivana Ivanovic Burmazovic, Aleksandra Jankovic, Vesna Otasevic, Aleksandra Korac, Biljana Buzadzic, Sava Masovic, Bato Korac

P 107 | A mass spectrometry approach for the identification and localization of acrolein modifications of proteins
Bebiana C. Sousa, Corinne M. Spickett, Andrew R. Pitt

P 108 | Identification and localization of protein-pentanal adducts, a potential lipoxidation marker
Catarina Afonso, Andrew R. Pitt, Corinne M. Spickett

P 109 | Effect of URB597 on phospholipid metabolism in the heart of hypertensive rats
Michał Biernacki, Ewa Ambro ewicz, Katarzyna Bielawska, Marek Toczek, *El bieta Skrzydlewska*

P 110 | Glutathione deprivation improves oxidative capacity but disrupts endocrine role of white adipose tissue in overall metabolic homeostasis
Aleksandra Jankovi , Vesna Otasevic, Ana Stancic, Sava Masovic, Biljana Buzadzic, Aleksandra Korac, Bato Korac

P 111 | The Comparison of Lipid Peroxidation, Glutathione Levels and Antioxidant Enzyme Activities in Blood Obtained from Captive and Wild Northern Bluefin Tuna (Thunnus thynnus L., 1758)
Sibel Konyalioglu, Fatih Percin

P 112 | The influence of female hormones and gestational diabetes on DNA damage
Eman Awad, Helga Stopper, Eman Maher Othman

P 113 | Antioxidant activity of *Crataegus Monogyna L.* flowers
Sibel Konyalioglu, Gozde Elgin Cebe, Selin Aktar

P 114 | High cholesterol diet-mediated unfolded protein response activation enhances autophagic cell death in heart tissue
Erdi Sozen, Burak Yazgan, Olgu Enis Tok, Feriha Ercan, Betul Karademir, Nesrin Kartal Ozer

P 115 | Cell cycle arest and regulation of Nrf2 by Ganoderma lucidum in hepatocellular carcinoma
Ali Mert Ozgonul, Sibel Konyalioglu, Guliz Armagan, Taner Dagci

P 116 | Crosstalk between insulin resistance and oxidative stress in the development of Alzheimer-like neurodegeneration
Eugenio Barone, Fabio Di Domenico, Andrea Arena, *Francesca Triani,* Marzia Perluigi

P 117 | HyPer biosensor to monitor intracellular hydrogen peroxide in skeletal muscle cells
Manuel Adolfo Sánchez-Martín, Jorge de Andrés, Lorena Rodríguez-Izquierdo, Lucía Méndez, *Jesús Palomero*

P 118 | Non-photonic sensing of membrane-delimited reactive species with a Na+ channel protein containing selenocysteine
Navin Kumar Ojha, Enrico Leipold, Roland Schönherr, Toshinori Hoshi, Stefan H. Heinemann

P 119 | ER stress related lipid accumulation and apoptotic cell death in nonalcoholic fatty liver diesease
Tugce Demirel, Erdi Sozen, Ali Sahin, Betul Karademir, Nesrin Kartal Ozer

P 120 | Dietary Sulforaphane supplementation induces Nrf2, attenuating hypoxia-induced vascular smooth muscle cell proliferation and remodelling following carotid artery ligation
Sarah Chapple, Charlotte Burford, Keith Farrell-Dillon, Giovanni Mann

P 121 | Metabolic activity of radish sprouts derived isothiocyanates in Drosophila melanogaster
Nieves Baenas, Stefanie Staats, Anke Schloesser, Diego A Moreno, Cristina García-Viguera, Gerald Rimbach, *Anika E Wagner*

P 122 | The effects of taurine on the levels of GSH and LPO on *in vitro* glucose-induced cataractous rabbit lenses
Ali Mert Ozgonul, Sibel Konyalioglu

P 123 | Circadian clock as possible protective mechanism to pollution induced skin damage
Mascia Benedusi, Elena Frigato, Mattia Beltramello, Cristiano Bertolucci, Giuseppe Valacchi

P 124 | Attenuation of skeletal muscle oxidative stress in atherosclerotic mice
Pagona P. Sfyri, Nadira Y. Yuldasheva, Anastasia Tzimou, Vassilis Mougios, Mark T. Kearney, Antonios Matsakas

P 125 | Acute effect of phosphodiesterase type 5 inhibitor tadalafil on plasma redox status in healthy men
Guglielmo Duranti, Roberta Ceci, Paolo Sgrò, Luigi Di Luigi, Stefania Sabatini

P 126 | Aminophospholipid oxidation and glycation in immunity: good or bad?
Rosário Domingues, Tania Melo, Elisabete Maciel, Simone Colombo, Pedro Domingues

P 127 | Is NADPH oxidase activity regulated by free radicals?
Chantal Houee Levin, Laura Baciou, Tania Bizouarn

P 128 | Synergy between UV and pollutants induce redox imbalance in skin cell
Jérémie Soeur, Dimitrov Ariane, Laurent Marrot, Sakina Mezzache, Joan Eilstein

P 129 | Alteration of phospholipidome profile in the heart of an animal model of acute myocardial infarction
Javier Fernando Montero Bullón, Tania Melo, Tania Martins-Marques, Henrique Girão, Rosário Domingues, Pedro Domingues

P 130 | Oxidative metabolism of phosphatidylethanolamines predicted by electrochemistry-mass spectrometry
Simone Colombo, Giulia Coliva, Agnieszka Kraj, Jean-Pierre Chervet, Maria Fedorova, Pedro Domingues, M. Rosario Domingues

P 131 | Altered protein O-GlcNAcylation profile revealed by proteomics: Novel insights on protein signalling mechanisms in AD
Marzia Perluigi, Antonella Tramutola, Nidhi Sharma, Fabio di Domenico

P 132 | SIRT3 protects against palmitate-induced neuronal lipotoxicity
Eugenia Alfine, Stefanie Deubel, Norina Würschum, André Kleinridders

P 133 | Label-free chemiluminescence imaging of oxidative processes in human skin
Michaela Poplová, Kate ina ervinková, Ji í Pr ša, Ankush Prasad, Pavel Pospíšil, Eduard P.A. Van Wijk, *Michal Cifra*

P 134 | Nrf2-pathway alteration in RTT syndrome
Ilaria Crivellari, Arianna Romani, Alessandra Pecorelli, Carlo Cervellati, Franco Cervellati, Mascia Benedusi, Joussef Hayek, Giuseppe Valacchi

P 135 | HO-1 down-regulation increases the efficacy of BRAFV600E inhibition-based therapy in primary melanoma cells
Anna Lisa Furfaro, Gabriella Pietra, Irene Cossu, Umberto M. Marinari, Lorenzo Moretta, Maria Cristina Mingari, Maria A. Pronzato, Mariapaola Nitti

P 136 | Acute effect of Thai Chi on marker of oxidative stress and flow-mediated dilation among healthy young and elderly volunteers
Nor Fadila Kasim, Sarah Aldred, Jet Veldhuijzen van Zanten

P 137 | Expression patterns of peroxiredoxins in the rat bone and their changes after ovariectomy—an implication in aging?
Jose Rodrigo Godoy Berthet

P 138 | A correlation between redox imbalance and altered mitochondrial quality control pathway in Autistic Spectrum Disorder
Francesca Ferrara, Alessandra Pecorelli, Franco Cervellati, Mascia Benedusi, Arianna Romani, Carlo Cervellati, Joussef Hayek, Giuseppe Valacchi

P 139 | Functional and structural characterization of a novel class of MAP-kinase inhibitors
Desirée Bartolini, M Buhrmann, Maria Letizia Barreca, Giuseppe Manfroni,Violetta Cecchetti, Daniel Rauh, Francesco Galli

P 140 | GSTP expression influences the metabolism and redox of cellular glutathione
Desirée Bartolini, Daniela Giustarini, Pierangelo Torquato, Marta Piroddi, Claudio Santi, Ranieri Rossi, Kenneth Tew, Francesco Galli

P 141 | Peripheral oxidative profile and specific advanced glycation end products can be a signature of cognitive decline in Alzheimer's disease
Mohamed Haddad, Morgane Perrotte, Aurélie Le Page, Paméla Camponova, Tamas Fulop, Charles Ramassamy

P 142 | TRAMP mice overexpressing SOD2 develop poorly differentiated neuroendocrine tumors and lower survival
Vanesa Cepas, Alejandro Alvarez-Artime, Juan C Mayo

P 143 | Air particulate matter as enhancer of ozone-induced skin damage
Carlotta Cavicchio, Ilaria Crivellari, Mascia Benedusi, Alessandra Pecorelli, Ximena Maria Muresan, Franco Cervellati, Pablo Evelson, Timoteo Marchini, Giuseppe Valacchi

P 144 | Clinical evaluation of wound healing capacity of isopod Ceratothoa oestroides oil extract
Andreas Grigoropoulos, Eftychia Zouridaki, Themis Sgontzou, Andreas Vitsos, Christina Antoniou, Alexandra Katsarou, Argiro Chatziioannou, Maria Kyriazi, Marina Karasmani, Maria Giakoumaki, Vasiliki Anagnostou, Eleni Deli, Nikolaos Andreou, Vasileios Roussis, Michail Rallis

P 145 | Effect of anti-inflammatory/antioxidant agent on diabetic hairless mouse skin
Eleni Deli, Maria Kyriazi, Aggeliki Dimakopoulou, Marina Karasmani, Maria Giakoumaki, Andreas Grigoropoulos, Vasiliki Anagnostou, Angeliki Kourounakis, Michael Rallis

P 146 | The effect of anti-aging agents in skin oxidative stress induced by UV Radiation in vivo
Marina Karasmani, Paraskevas Dallas, Maria Kyriazi, Aggeliki Dimakopoulou, Eleni Deli, Maria Giakoumaki, Andreas Grigoropoulos, Vasiliki Anagnostou, Michael Rallis

P 147 | In vitro evaluation of pine extracts antioxidant protection
Crhysoula Zerva, Eleni Andrianna Kanari, *Nikolaos Panagiotis Andreou*, Vasilios Roussis, Emmanouil Vourakis, Maria Kyriazi, Georgios Papaioannou, Michail Rallis

P 148 | Identification of novel carbonylated amino acids in proteins from human plasma
Adelina Rogowska-Wrzesinska

P 149 | Roles of branched-chain amino acids regulation in oxidative stress revealed by fibroblasts from classic Maple Syrup Urine Disease patients
Paula Fernandez Guerra, Lei Cheng, Robert A. Fenton, Peter Bross, Pilar Rodriguez Pombo, Johan Palmfeldt

P 150 | Chronic UV irradiation induced oxidative stress in the skin of diabetic hairless mice
Maria Giakoumaki, Maria Kyriazi, Aggeliki Dimakopoulou, Vasiliki Anagnostou, Marina Karasmani, Andreas Grigoropoulos, Eleni Deli, Nick Andreou, Michail Rallis

P 151 | Glutathione and the switch of aerobic metabolism collaborate for multi-drug resistance of neuroblastoma
Cinzia Domenicotti, Andrea Speciale, Ombretta Garbarino, Alberto Izzotti, Daniela Fenoglio, Silvia Ravera, Alessandra Pulliero, Mario Passalacqua, Nicola Traverso, Maria Adelaide Pronzato, Barbara Marengo

P 152 | Skin Inflammation and Oxidative Stress
Michail Rallis, Maria Kyriazi, Georgios Th. Papaioannou, Andreas Vitsos, Sotirios Liakos, Styliani Daskalaki, Angeliki Dimakopoulou, Maria Giakoumaki, Nikolaos Panayiotis Andreou, Eleni Deli, Vasiliki Anagnostou, Marianna Papageorgiadi, Marina Karasmani

P 153 | SIRT3 knockdown increases oxidative stress and sensitivity to cytotoxic treatments in SW620 cancer cells
Margalida Torrens-Mas, Reyniel Hernández-López, Jorge Sastre-Serra, Pilar Roca, Jordi Oliver

P 154 | Diabetic skin and UV light: protection by *Pinus halepensis* pine bark extract
Aggeliki Dimaki, *Maria Kyriazi*, Ioannis Sfiniadakis, Georgios Papaioannou, Lykourgos Klamarias, Vasileios Roussis, Michail Rallis

P 155 | The role of aging and senescence on pancreatic β-cell function and proliferation
Richard Kehm, Oliver Kluth, Annette Schürmann, Tilman Grune, Annika Höhn

P 156 | A "multi-omic" investigation of the effects of long wavelength ultraviolet light on primary human keratinocytes identifies NUPR1 as central stress response mediator
Marie-Sophie Narzt, Ionela M. Nagelreiter, Valery N. Bochkov, Julie Latreille, Fernando Sialana, Gert Lubec, Maria Fedorova, Zhixu Ni, Manuel Filzwieser, Johannes Grillari, Lucian Beer, Erwin Tschachler, Florian Gruber

P 157 | Potential Healing Properties of Bee Products to Thermal and Sun Burns
Elisavet Theodoraki, Asimina Terezaki, Paschalis Harizanis, Maria Kyriazi, Vasilios Roussis, Georgios Th. Papaioannou, Marianna Papageorgiadi, Andreas Grigoropoulos, *Michail Rallis*

P 158 | GLP-2 in the capacity of (-)-epicatechin and anthocyanidins to improve insulin sensitivity
Elena Daveri, Patricia I. Oteiza

P 159 | Role of NADPH oxidase on TNFα-induced intestinal permeabilization
Eleonora Cremonini, Patricia I Oteiza

P 160 | Microglia based Alzheimer therapy
Katrin Arnold, Claire Fabian, *Alexandra Stolzing*

P 161 | Developmental expression and dysregulation of miR146a and miR155 in Down's syndrome and mouse models of Down's syndrome and Alzheimer's disease
Andrea Arena, Anand Iyer, Marzia Perluigi, Eleonora Aronica

P 162 | Impact of the age-related protein aggregate lipofuscin on β-cell functionality
Jeannette König, Michaela Press, Tilman Grune, Annika Höhn

P 163 | Bcl-2 modulates ER/SR calcium uptake by interaction with SERCA and heat shock proteins
Christian Schoneich, Elena Dremina, Asha Hewarathna

P 164 | **Circulating mtDNA levels as an early marker for metabolic syndrome**
Santiago Padilla, Leandro Tana, Stephany Gallardo, Maria Jose Arcos, Martha Yepez, Pablo Endara, Marcela Bovera, Michelle Grunauer, *Enrique Teran*, Andres Caicedo

P 165 | **The role of mitochondrial reactive oxygen species in the response of the pulmonary vasculature to hypoxia and right heart remodeling**
Susan Scheibe, Oleg Pak, Azadeh Esfandiary, Akylbek Sydykov, Michael Murphy, Norbert Weissmann, Natascha Sommer

P 166 | **Ultrastructural Assessment of Mitochondrial Network in the Cultured Skin Fibroblasts from Patients Harboring tRNA Mutations**
Yen-Chi Chiu, Kuang-Jing Huang, Shang-Rung Wu

P 167 | **NoxO1 contributes to the differentiation of intestinal stem cells**
Franziska Moll, Maria Walter, Katrin Schröder

P 168 | **Intestine permeability of S-nitrosoglutathione as a potential nitric oxide donor via oral administration**
Justine Bonetti, Haiyan Yu, Hui Ming, Anne Sapin-Minet, Isabelle Fries, Igor Clarot, Patrick Chaimbault, *Pierre Leroy*, Caroline Gaucher

P 169 | **A study of the role of oxidative stress and low-grade inflammation in development of Helicobacter pylori-induced insulin resistance in asymptomatic sedentary young men**
Andriy Cherkas, Sergii Golota, Françoise Guéraud, Christoph Pichler, Armen Nersesyan, Ostap Yatskevych, Mykhaylo Pliatsko, Andriy Bazylevych, Peter Eckl, Siegfried Knasmüller

P 170 | **Pro-oxidant tumor therapy in murine melanoma and pancreatic cancer**
Sander Bekeschus, Kim Rouven Liedtke, Thomas von Woedtke, Lars Ivo Partecke

P 171 | **Silymarin and silybin in suppression of UVA-induced oxidative stress in normal human dermal fibroblasts**
Alena Rajnochová Svobodová, Eva Gabrielová, Jitka Ulrichová, Bohumil Zálešák, Jitka Vostálová

P 172 | **Two putative selenium binding proteins as modulators of *C. elegans* stress response and life span**
Karl Köhnlein, Nadine Urban, Holger Steinbrenner, Lars-Oliver Klotz

P 173 | **Anti-aging activity of silymarin and its components**
Jitka Vostálová, *Alena Rajnochová Svobodová*, Eva Tinková, Jitka Ulrichová, David Biedermann, Bohumil Zálešák

P 174 | Placental and mitochondrial Q10 content after CoQ10 supplementation during pregnancy
Isabel Hernandez, Sandra Vivero, Marcia Racines-Orbe, Andres Calle, Gustavo Molina, *Enrique Teran*

P 175 | Punicalagin of Pomegranate and (-)-Epigallocatechin-3-gallate of Green Tea Rescue the Cell Viability and Attenuate Inflammatory Responses of Human Epidermal Keratinocytes Exposed to Airborne Particulate Matter PM10
Jin Kyung Seok, Yong Chool Boo

P 176 | Screening of Marine Plants for Phenolic Antioxidants Mitigating Oxidative Stress in Keratinocytes Exposed to Airborne Particulate Matter PM10
Jeong-won Lee, Yong Chool Boo

P 177 | αB-crystallin activation in cardiac muscle by acute exercise mirrors the sHSP kinetic in oxidative skeletal muscle fibers: animal and cellular study
Ambra Antonioni, Ivan Dimauro, Neri Mercatelli, Filippo Macaluso, Rosario Barone, Valentina Di Felice, Daniela Caporossi

P 178 | Rosemary (*Rosmarinus officinalis L.*) extract increases ROS and modulates Nrf2 pathway in human colon cancer cell lines
Almudena Pérez-Sánchez, Noelia Sánchez-Marzo, María Herranz-López, Enrique Barrajón-Catalán, Vicente Micol

P 179 | Antioxidant activity and intestinal absorption of apigenin and its potassium salt derivative in Caco-2 cell monolayers
Almudena Pérez-Sánchez, Noelia Sánchez-Marzo, Enrique Barrajón-Catalán, Julián Castillo, María Herranz-López, Vicente Micol

P 180 | Associations between oxidative stress markers, antioxidants and age in a large cross-sectional study
Daniela Weber, Bastian Kochlik, Tilman Grune

P 181 | Protein–small molecule interactions as a tool for controlling lipoprotein propertie
Jacob Vaya *(poster was withdrawn)*

P 182 | Genetic Polymorphism of methylenetetrahydrofolate reductase (MTHFR) C 677T and A1298C gene and risk of head and neck squamous cell carcinoma-A qualitative analysis
Rashi Kulshrestha, Arun Kumar Rathi, Seema Kapoor

P 183 | Differentiation modifies Bach1 dependent regulation of HO-1 expression and increases sensitivity to oxidative stress in neuroblastoma cells
Sabrina Piras, *Lorenzo Brondolo*, Anna Lisa Furfaro, Mario Passalacqua, Umberto M. Marinari, Maria A. Pronzato, Mariapaola Nitti

P 184 | Functional state and morphology of mesenchymal stem cells after oxidative stress
Andrey Ratushnyy, Margarita Lobanova, *Olga Zhidkova*

P 185 | Low-fluence photodynamic treatment modifies immunogenicity of mesenchymal stromal cells
Olga Udartseva, Ludmila Buravkova, Elena Andreeva, *Olga Zhidkova*

P 186 | Mechanisms involved in chronic effects of doxorubicin in rat hearts
Miroslav Barancik, Monika Bartekova, Maria Fogarassyova, Ludmila Okruhlicova, Narcisa Tribulova, Ima Dovinova

P 187 | Prevention of UVB-induced Oxidative Stress and DNA damage in human keratinocytes by citrus and olive formulations
Noelia Sánchez-Marzo, Almudena Pérez-Sánchez, Julián Castillo, María Herranz-López, Enrique Barrajón-Catalán, Vicente Micol

P 188 | Antioxidant activity and photoprotective effect of citrus and olive formulations on UVB-induced damage in human keratinocytes
Noelia Sánchez-Marzo, Almudena Pérez-Sánchez, Julián Castillo, María Herranz-López, Vicente Micol[1], Enrique Barrajón-Catalán

P 189 | PPAR gamma activation can improve aberrant redox regulation in hypertension
Ima Dovinova, Miroslava Kvandová, Miroslava Majzunova, Peter Balis, Linda Gresova, Miroslav Barancik

P 190 | The interplay between nuclear and cytoplasmic distribution of methionine cycle enzymes in acute liver injury
Dolores Pérez-Sala, Juliana Pérez-Miguelsanz, María A. Pajares

P 191 | Grape pomace extract, rich in polyphenols, stimulate the emergence of brown-like cells in white adipose tissue in spontaneously hypertensive rats and in 3T3-L1 adipocytes
Cecilia Rodriguez Lanz[1], Diahann Perdicaro, Rubén Bottini, Roberto Miatello, Patricia Oteiza, *Marcela Vazquez Prieto*

P 192 | Comparison of anti-inflammatory and antioxidant activities of an anthocyanin-rich fraction from Portuguese blueberries (Vaccinium corymbosum L.) with 5-aminosalicylic acid, in a co-culture model of inflammatory bowel disease
Sónia Pereira, Teresa Dinis, Leonor Almeida

P 193 | Redox control of the 20S proteasome gating: Implications on the chronological life span of yeast cells
Marilene Demasi

P 194 | Induction of mitochondrial reactive oxygen species by a novel STAT3 inhibitor triggers apoptosis in human glioblastoma cells
Magdalena Fraga, Gerardo Guillermo Mackenzie

P 195 | Nuclear factor (erythroid-derived-2)-like 2 (Nrf2) signalling is involved in transdifferentiation of hepatocyte-like cells
Francesco Bellanti, Giorgia di Bello, Rosanna Tamborra, Maria Blonda, Gianluigi Vendemiale, Gaetano Serviddio

P 196 | The intestinal/liver axis in the capacity of anthocyanidins to mitigate high fat diet-induced insulin resistance
Eleonora Cremonini, Elena Daveri, Angela Mastaloudis, Steve Wood, Shelly Hester, Cesar G. Fraga, Patricia I. Oteiza

P 197 | Role of mitochondrial NADP+-dependent isocitrate dehydrogenase (IDH2) on cisplatin-induced nephrotoxicity
Min Jung Kong, Jee In Kim, *Kwon Moo Park*

P 198 | Role of ATF3 in mediating lipid-induced stress signaling in brain microvascular endothelial cells
Hnin Hnin Aung, *Tun Nyunt*, Dennis W. Wilson, John C. Rutledge

P 199 | Plasma 3-Methylhistidine as Marker for Muscle Status:Impact of Diet and Meat Intervention
Bastian Kochlik, Tilman Grune, Daniela Weber

P 200 | Amaranth oil reduces accumulation of 4-hydroxynonenal-histidine adducts in gastric mucosa and improves heart rate variability in duodenal peptic ulcer patients undergoing Helicobacter pylori eradication
Andriy Cherkas, Kamelija Žarković, Olha Yelisyeyeva, Ana ipak, Morana Jaganjac, Orest Abrahamovych, Ostap Yatskevych, Georg Waeg, Neven Žarković

P 201 | Role of redox-potential decreasing in the chronic isoproterenol-induced cardiac hypertrophy and its pharmacological correction
Galina V. Sukoyan, Dmitry Iu Ionov, A.V. Zelenskaya, Pavel A. Galenko-Iaroshevsky, Veronika V. Golovach, Nikoloz V. Gongadze

P 202 | Role of Redox Signaling in cardioinflammation and chronic heart failure
Galina V. Sukoyan, *Nikoloz V. Gongadze*, Tamar D. Kezeli

P 203 | Quercetin derivatives from Hibiscus sabdariffa reduce lipid content and increase mitochondrial biogenesis in hypertrophied 3T3-L1 adipocytes
Mariló Olivares-Vicente, Enrique Barrajón-Catalán, Esther Rodríguez-Gallego, Jorge Joven, Vicente Micol, María Herranz-López

P 204 | Differences in antioxidant enzymes in tumour tissue and non-tumour adjacent tissue in colorectal cancer patients at different stages (III and IV)
Reyniel Hernández-López, Margalida Torrens-Mas, Daniel G. Pons, Esther Falcó, Teresa Fernández, Javier M Ibarra de la Rosa, Maria M Company, Jorge Sastre-Serra, Pilar Roca, *Jordi Oliver*

P 205 | Effects of metabolites derived from Hibiscus sabdariffa on high glucose-induced oxidative stress and inflammation in hypertrophied 3T3-L1 adipocytes
Mariló Olivares-Vicent, Enrique Barrajón-Catalá, Enrique Roche, José Antonio Encinar, Vicente Micol, María Herranz-López

P 206 | Quercetin supplementation decreases erythrocytes oxidative damage at resting and after an acute bout of eccentric exercise in humans
Guglielmo Duranti, Roberta Ceci, Federica Patrizio, Ilenia Bazzucchi, Paolo Sgrò, Luigi Di Luigi, Stefania Sabatini, Francesco Felici

P 207 | The NADPH oxidase Nox4 promotes endothelial differentiation from murine induced-pluripotent stem cells
Fabian Hahner, Franziska Moll, Oliver Löwe, Ralf P. Brandes, Katrin Schröder

P 209 | C-terminal domain of tetanus toxin changes the apoptosis- and autophagy-related protein levels following spinal cord injury in rat brain
Murat Celal Sözbilen, Murat Öztürk, Gizem Kaftan, Taner Dağcı, Halit Özyalçın, *Güliz Armagan*

P 210 | Phenolic concentration and antioxidant activity of Mediterranean plants extracts
Luz María Agulló Chazarra, Víctor Jiménez Lancho, Antonio Segura Carretero, María Herranz López, Vicente Micol, Enrique Barrajón Catalán

P 211 | Antioxidant activity and photoprotection of Mediterranean plants extracts
Luz María Agulló Chazarra, Víctor Jiménez Lancho, Antonio Segura Carretero, María Herranz López, Vicente Micol, Enrique Barrajón Catalán

P 212 | The second order mechanism of copper induced lipid peroxidation
Dov Lichtenberg, Ilya Pinchuk

P 213 | Mitochondrial Biogenesis, Autophagy and Mitochondrial UPR Co-operate in Modulating Ionizing Radiation Induced Cellular Damage
Shubhankar Das, Manjunath B. Joshi, Kapaettu Satyamoorthy, Satish B. S. Rao

P 214 | Influence of drying temperature and harvesting season on phenolic content and antioxidant activity of olive (Olea europaea) leaf extracts
María Losada-Echeberría, Amani Taamalli, Vicente Micol, María Herranz-López, David Arráez-Román, Enrique Barrajón-Catalán

P 215 | Antioxidant enriched olive leaf extracts show antiproliferative activity in cellular models of breast cancer
María Losada-Echeberría, Amani Taamalli, Vicente Micol, María Herranz-López, David Arráez-Román, Enrique Barrajón-Catalán

P 216 | The antiproliferative effects of four marine invertebrate ectracts in colon cancer cells in relation to the modulation of oxidative stress-related pathways
Verónica Ruiz-Torres, Cristiaan Echegoyen, César Garrido-Alonso, María Herranz-López, Vicente Micol, Enrique Barrajón-Catalán

P 217 | Apoptosis and necrosis induced by hydrogen peroxide and cyanatein human lymphocytes
Anna Pieniazek, *Krzysztof Gwozdzinski*

P 218 | Effects of NFKB1 gene polymorphism and frequently used drugs on the activation of nuclear factor κB (NF-κB)
Brigitte M. Winklhofer-Roob, Gernot Faustmann, Hildegard Hafner-Giessauf, Petra Kieslinger, Johanna Grabher, Hans-Jürgen Gruber, Beate Tiran, Johannes M. Roob

P 219 | Serum from patients affected by Alzheimer disease shows a paraoxonase-dependent pro-apoptotic effect on endothelial cells
Ilaria Crivellari, Carlo Cervellati, Francesco Vieceli Dalla Sega, Giuseppe Valacchi, Alessandro Trentini, Angelina Passaro, Cristina Bosi, Arianna Romani, Fabrizio Franzè, Carla Resca, Francesca Fortini, Giovanni Zuliani, Paola Rizzo

P 220 | The intracellular metabolites of quercetin derivatives correlate with oxidative stress in hypertrophied 3T3-L1 adipocytes
Maria Herranz-López, Mariló Olivares-Vicente, Isabel Borrás-Linares, Enrique Barrajón-Catalán, Antonio Segura-Carretero, Vicente Micol-Molina

P 221 | Olive leaf polyphenols alleviate oxidative stress and improve mitochondrial function in high glucose-induced 3T3-L1 hypertrophic adipocytes
Teresa Castaño-Martínez, Mariló Olivares-Vicente, Enrique Barrajón-Catalan, José Antonio Encinar, Vicente Micol, María Herranz-López

P 222 | Regulation of Nrf2 signaling during the antitumoral activity of Sorafenib in hepatoma cells
Raúl González, María A. Rodríguez-Hernández, María José López-Grueso, Ana Isabel Rojo, Elena Navarro-Villarán, Javier Padillo, José Antonio Bárcena, Antonio Cuadrado, Carmen Alicia Padilla, Jordi Muntane

P 223 | Induction of FGF21 by CO/PERK/ATF4 Pathway Mediates Metabolic Homeostasis
Hun Taeg Chung, Yeonsoo Joe, Hyo Jeong Kim, Sena Kim

P 224 | Regular exercise participation improves genomic stability in diabetic patients: an exploratory study to analyse telomere length and DNA damage
Ivan Dimauro, Antonella Sgura, Monica Pittaluga, Fiorenza Magi, Cristina Fantini, Rosa Mancinelli, Antonio Sgadari, Stefania Fulle, Daniela Caporossi

P 225 | Impact of lipotoxic stress on proteolytic systems in human liver cells
Ioanna Korovila, Martin Hugo, Jose Pedro Castro, Tobias Jung, Christiane Ott, Tilman Grune

P 226 | Hibiscus and lemon verbena polyphenols: Assessment for weight management in overweight volunteers. Appetite control and satiety
Marina Boix-Castejón, *Maria Herranz-López*, Nuria Caturla, Enrique Roche, Enrique Barrajón-Catalán, Vicente Micol

P 227 | The role of cholesteryl ester transfer protein expression on endothelial cells: oxidative stress and vascular dysfunction
Amarylis Claudine Bonito Wanschel, Estela Lorza-Gil, Alessandro G. Salerno, Adriene A. Paiva, Jeferson Stravinsky, Daniela M. Guizoni, Ana P. Davel, Gabriel G. Dorighello, Helena C. Oliveira

P 228 | Green Rooibos Extract improves plasma lipid profile and oxidative status in diabetic non-human primates
Patrick Orlando, Nireshni Chellan, Christo J.F. Muller, Johan Louw, Charna C. Chapman, Elizabeth Joubert, Luca Tiano

P 229 | Ubiquinol supplemenetation in elderly patients undergoing aortic valve replacement: Biochemical and clinical effects
Patrick Orlando, Francesco Nicolini, Tiziano Gherli, Alberto Molardi, Sonia Silvestri, Francesca Brugè, Gian Paolo Littarru, Luca Tiano

P 230 | Simvastatin differently effect oxidative status in cultured myocytes from young and old donors
Sonia Silvestri, Gilliant Butler Browne, Louiza Arouche, Patrick Orlando, Fabio Marcheggiani, Ilenia Cirilli, Francesca Brugè, Michele Guescini, Luca Tiano

P 231 | Combination of Ubiquinol intake and moderate physical activity efficiently counteracts myocytes mitochondrial dysfunctions and apoptosis in a mouse model of sarcopenia
Sonia Silvestri, Patrick Orlando, Cristina Andreani, Caterina Bartolacci, Michele Guescini, Fiorenza Orlando, Mauro Provinciali, Augusto Amici, Luca Tiano

P 232 | Role of inflamma-mitomiRs miR-146a, miR-181a and miR-34a in regulating mitochondrial dysfunction during replicative senescence of human endothelial cells
Ilenia Cirilli, Angelica Giuliani, Francesco Prattichizzo, Patrick Orlando, Fabio Marcheggiani, Maria Rita Rippo, Luca Tiano

P 233 | The protective antioxidant effect of Lemon balm extract against UVB-induce damage in a skin cell model
Veronica Ruiz-Torres, Almudena Pérez-Sánchez, María Herranz-López, Julian Castillo, Vicente Micol, Enrique Barrajón-Catalán

P 234 | Glut 1 overexpression prevents glucose deprivation-induced prostate cancer cell death by increasing pentose phosphate pathway and glutathione
David Hevia, Pedro Gonzalez-Menendez, Vanesa Cepas, Rosa M Sainz

P 235 | A novel nutrient blend mimics calorie restriction transcriptomics differentially in multiple tissues of mice
Angela Mastaloudis, Eva Serna, Steven M. Wood, Shelly Hester, Richard Weindruch, Tomas A. Prolla, Jose Vina

P 236 | Oxidative Stress Markers of Alzheimer's Disease in Peripheral Cell Mitochondria
Christian Schoneich, Asha Hewarathna, Ranu Pal, Lei Jiang, Elias Michaelis

P 237 | Site-specific cysteine oxidation regulates 26S proteasomes
Martín Hugo, Ioana Korovila, Leticia Prates Roma, Antonio Martínez-Ruiz, Anabel Marina, Carlos Garcia, Tilman Grune

P 238 | Mitochondrial adaptive response in a model of CoQ10 deprived human dermal fibroblasts
Fabio Marcheggiani, Ilenia Cirilli, Patrick Orlando, Anja Knott, Julia Weise, *Luca Tiano*

P 239 | Effects of persimmon extract in 3T3-L1 cells
Sara Gea Botella, Teresa Castaño Martínez, David Mula Muñoz, María Herranz López, Vincente Micol, Manuel Valero Roche, Nuria Martí Bruña, Domingo Saura López

P 240 | Anti-oxidative effects of a white grape juice extract on lymphocytic mitochondrial functions
Santa Cirmi, Giuseppa Visalli, Maria Paola Bertuccio, Marianna Pruiti Ciarello

P 241 | Catalase localization in Duchenne-Becker patients' erythrocytes
Marija Marin, Golic Igor, Milica Markelic, Ana Stancic, Vesna Otasevic, Aleksandra Jankovic, Bato Korac, *Aleksandra Korac*

P 242 | Cerebral protection during fetal-to-neonatal transition under hypoxic atmosphere
Isabel Torres-Cuevas, Elena Cubells, Justo Escobar, Jose Manuel Verdugo, Miguel Asensi, Maximo Vento

P 243 | Mitochondrial respiratory profile in human dermal fibroblast treated with HMG-coa reductase inhibitor
Fabio Marcheggiani, Julia Weise, Anja Knott, Alexandra Vogelsang, Luca Tiano

P 244 | Impact of lipo- and glucotoxic stress on proteolytic systems in murine liver
Tobias Jung, Ioanna Korovila, Christiane Ott, Richard Kehm, Tilman Grune

P 245 | Compromised proteasomal function in endothelial cell senescence
Odeta Mece, Nderim Kryeziu, Grune Tilman, Regine Heller

P 246 | Spectra of ultra-weak photon emission
Homa Saeidfirouzeh, Mical Cifra, Azizollah Shafikhani

P 247 | Free radical production and detoxification in complex IV deficient cancer cells
Alexander V. Zhdanov, Dmitry E. Andreev, Pavel V. Baranov, Dmitri B. Papkovsky

P 248 | A study on mitochondrial stress responses due to OXPHOS inhibition
Fredrik Hoel, Karl Johan Tronstad

P 249 | Oxidative Stress Suppresses the Expression of 15-Hydroxyprostaglandin Dehydrogenase through Epigenetic Modulation in Human Colon Epithelial Cells
Ja-Young Lee, Jeoung-Eun Lee, *Hye-Kyung Na*

P 250 | A quantitiative LC-MS/MS method for the measurement of tocopherols, polyinsaturated fatty acids and their metabolites in human plasma and serum
Danilo Giusepponi, *Pierangelo Torquato*, Desirée Bartolini, Marta Piroddi, Simone Moretti, Giorgio Saluti, Mark Birringer, Stefan Lorkowski, Francesco Galli, Roberta Galarini

P 251 | Adaptation of the nematode C. elegans to hypoxia and reoxygenation stress reveals an unexpected function of the neuroglobin GLB-5 in innate immunity
Binyamin Zuckerman, Zohar Abergel, Veronica Zelmanovich, Leonor Romero, Rachel Abergel, Leonid Livshits, Yoav Smith, *Einav Gross*

P 252 | Oxidised lipids affect miR expression by microvascular endothelial cells
Irundika H.K . Dias, Caroline L. Brown, Cristina Polidori, *Helen Griffith*

P 253 | Integrative omics-defined redox, metabolic and functional responses to environmental metal exposure
Young-Mi Go, Xin Hu, Joshua Chandler, Jolyn Fernandes, Dean P. Jones

P 254 | Towards Magnetic Mapping of Cellular Organelles using Fluorescent Nanodiamonds
Simon Robert Hemelaar, K.J. van der Laan, Romana Schirhagl

P 255 | Oxysterols are involved in colorectal carcinogenesis by damaging intestinal layer
Daniela Rossin, Monica Deiana, Simone Calfapietra, Angela Atzeri, Alessandra Incani, Giuseppe Poli, Fiorella Biasi

P256 | Automated Cell-Based Quantitation of 8-OHdG Damage
Bilge Debelec-Butuner, Aykut Bostancı, Lisa Heiserich, Caroline Eberle, Filiz Ozcan, Mutay Aslan, *Dirk Roggenbuck*, Kemal Sami Korkmaz

P257 | Oxidative Inactivation of Human Glutamine Synthetase
Silvina Bartesaghi, Nicolás Campolo, Federico Issoglio, Ari Zeida, Tilman Grune, Darío Estrín, Rafael Radi

L

M

N

O

P

R

S

T

U

V

W

Y

Z

(Participants as of May 29, 2017)

CONFERENCE DINNER
POSTER PRIZES AND AWARDS CEREMONY

WHEN?

Friday, June 23rd 2017
at 07:00 p.m.

WHERE?

Hamburger Bahnhof
Museum für Gegenwart Berlin
(Museum for Contemporary Art)
Invalidenstraße 50-51, 10557 Berlin

© Staatliche Museen zu Berlin, Foto: Maximilian Meisse

HOW TO GET THERE?

35 min walk

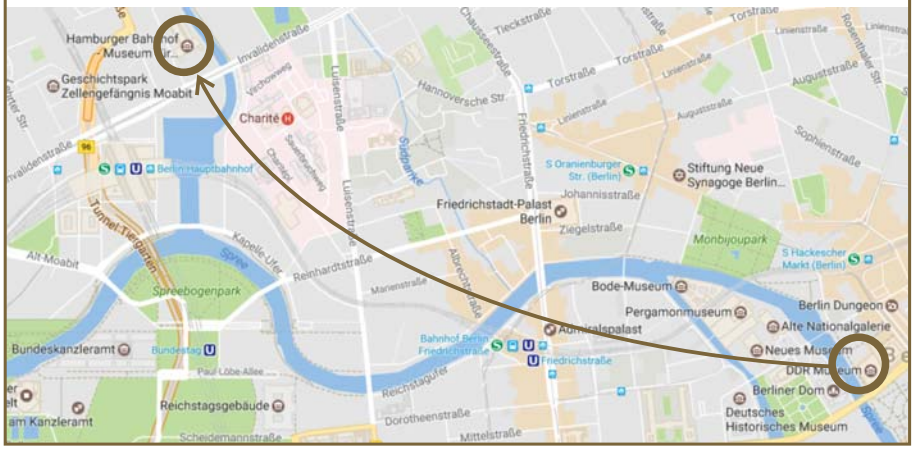
Get support from Google Maps by scanning the QR.

25 min by bus

from station Spandauer Straße/ Marienkirche
Bus TXL direction Flughafen Tegel Airport
get off at Invalidenpark
Ticket: Berlin AB, 2.80 EUR

15 min by S-Bahn

from station Hackescher Markt
train S5 direction Spandau,
S7 direction Potsdam-Hauptbahnhof
or S75 direction Westkreuz
get off at Berlin-Hauptbahnhof
Ticket: Kurzstrecke, 1.70 EUR



© GeoBasis-DE/BKG | Google