



# Current Topics in Biophysics

## CONTENTS

*Proceedings of the 3rd Symposium on Free Radicals in Biology and Medicine*  
Łódź, 29 April – 1 May, 1996

Ehud Ben-Hur, Nicholas E. Geacintov, Maria M. Zuk, Joyce Oetjen, Bernard Horowitz – Photodynamic decontamination of red blood cell concentrates: magnetic field effects .....	5
Anna Bielawska, Krzysztof Bielawski, Ryszard Farbiszewski – Protective effect of the novel antioxidant U-83836E against ischemia/reperfusion induced brain injury in rats .....	10
Anna Blázovics, Agnes Kéry, Erzsébel Fehér, László Prónai, Rhemso González-Cabello, Irén Barta, Andrea Lugasi, Péter Gergely, János Fehér – Natural antioxidants in liver therapy .....	14
Vyacheslav Buko, Aleksandr Artsukevich, Svetlana Shareyko, Aleksandr Maskevich – Modification of rat liver cytochrome P-450 by malondialdehyde and 4-hydroxynonenal .....	31
Zenon P. Czuba, Wacław Król – The importance of hydroxyl substituent in position 4' in flavonoids for modulation of chemiluminescence generated by an enzymatic system (horseradish peroxidase – luminol – hydrogen peroxide) .....	38
Luitpold V. Distel, Helga Schüßler – Radiation induced DNA-protein crosslinks and DNA double-strand breaks .....	42
Anna Filiplak, Teresa Gabryelak, Roman Gondko – Effect of zinc on carp ( <i>Cyprinus carpio</i> ) erythrocytes <i>in vitro</i> .....	47

(continued on back cover)

1996, vol. 20 (supplement)

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### **3rd Symposium "Free Radicals in Biology and Medicine" was held in Łódź on April 29-May 1, 1996.**

This meeting was organized by the Polish Biophysical Society, Polish Group of SFRR and the Institute of Biophysics of the University of Łódź.

It is the third international symposium that the Polish Group of SFRR has organized since its inauguration in 1993. Major sponsors of the symposium included Polish State Committee for Scientific Research, Ministry for National Education and the University of Łódź.

The organizers were able to bring together leading world scientists and the substantial number of Polish researchers interested in the field, who gave lectures on both basic science of free radical research and the biological as well as medical aspects of free radical actions. There were also 55 poster presentations.

About 150 participants attended the symposium for three days. The programme consisted of 28 talks given by foreign and domestic speakers as follows: Gidon Czapski (Jerusalem, Israel) "Mechanisms of oxidation by peroxynitrite" / Aldo Tomasi (Modena, Italy) "Reactive free radicals and nitric oxide in an experimental model system of rat brain ischemia-reperfusion using electron paramagnetic resonance spectroscopy-spin trapping" / Jorg Schaur (Graz, Austria) "Modification of human low density lipoprotein by myeloperoxidase from neutrophil granulocytes" / Vyacheslav Buko (Grodno, Belarus) "Modification of rat liver cytochrome P-450 by malondialdehyde and 4-hydroxynonenal" / Lech Wojtczak (Warsaw, Poland) "Effect of oxygen reactive species on energy-coupling processes in mitochondria" / Bela Matkovics (Szeged, Hungary) "Nitrogen oxide (NO): a new, but nowadays very popular free radical" / Tomasz Bilinski (Zamość, Poland) "Free radical theory of ageing. The role of oxygen" / Jerzy Popinigis (Gdańsk, Poland) "Formation of megamitochondria: adaptive response of tissue to free radicals" / Roger T. Dean (Sydney, Australia) "Protein oxidation: Mechanisms and roles in atherosclerosis" / Helga Schuessler (Erlangen, Germany) "Radiolysis of DNA in the presence of protein" / Ryszard Oliński (Bydgoszcz, Poland) "Oxidative DNA damage and cancer risk" / Sergei Andreev (Moscow, Russia) "DNA strand break clustering" / Luitpold Distel (Erlangen, Germany) "Radiation-induced protein-DNA-crosslinks and DNA double-strand breaks" / Alexander Peskin (Moscow, Russia) "DNA damage during redox chains functioning" / Ewa Lenartowicz (Warsaw, Poland) "Oxidation and regeneration of protein thiol groups in cell" / Ivan Stepuro (Grodno, Belarus) "Oxidative modification of proteins by free oxygen radicals. Formation of covalent adducts with amino acids and crosslinking of proteins" / Andrzej Wojcik (Essen, Germany) "Are radiation-induced chromosomal aberrations randomly distributed?" / Andrzej Płonka (Łódź, Poland) "Fractal-time reaction patterns of free radicals in condensed media" / Helmut Sies (Duesseldorf, Germany) "The reaction of ebselen with peroxynitrite" / Grzegorz Bartosz (Łódź, Poland) "Effect of peroxynitrite on the red blood cell" / Guenther Stark (Konstanz, Germany) "Radiolytic, photolytic and photodynamic inactivation of ion channels in lipid membranes" / Maria Zuk (New York, USA) "Photodynamic decontamination of blood. The use of quenchers of reactive oxygen species to enhance specificity" / Ekaterina Slobozhanina (Minsk, Belarus) "Panmyelopathies in children and free radical processes" / Milton B. Yatvin (Portland, USA) "Linking drug such as AZT to ceramide increases drug uptake, retention and antiviral action while decreasing bone marrow toxicity" / Andras Vereckei (Budapest, Hungary) "The effect of amiodarone and / or antioxidant treatment on splenocyte blast formation" / Anna Blazovics (Budapest, Hungary) "Flavonoids in the liver therapy" / Michał Woźniak (Gdańsk, Poland) "New endogenous low molecular weight defences against heart ischemia" / Witold Korytowski (Cracow, Poland) "Phospholipid-glutathione-peroxidase dependent reduction of various lipid hydroperoxides and its relation to cytotoxicity".

Discussions during the symposium as well as informal meetings were stimulating and attracted participants' attention and interest. The meeting was concluded by prof. Maria Bryszewska who took opportunity to thank all the participants for attending and making the meeting a success through their excellent contributions.

We hope that the 4th Symposium "Free Radicals in Biology and Medicine" will traditionally take place in two years, in May/June 1998.

Prof. Maria Bryszewska  
Chairperson of the Organizing Committee

The publication of the Symposium materials was supported by the Polish State Committee for Scientific Research (KBN).

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### I General

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2. Papers may be submitted in English to:  
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1. Manuscript and illustration should be submitted in duplicate. Double-spaced typing and at least 2 cm margins are required. The length of the manuscript is not limited.
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3. References should be cited in the text by giving the last name of the author (or authors) followed by the year of publication in parentheses, e.g. Reich (1970), Liboff and Furst (1974). If there are three or more authors, citations, beyond the first, need give only the first author, e.g. Pineri, Escobues and Roche (1978) becomes Pineri et al. (1978). If there is more than one work by the author (or authors) in a given year, then label them alphabetically within each year, e.g. Lang (1966a, 1966b).
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Krzysztof Gwoździński – Alterations in red blood cell components after paraquat treatment .....	54
Krzysztof Gwoździński, Grzegorz Bartosz – Nitroxide reduction in human red blood cells.....	60
Marcin Jóźwik, Michał Jóźwik, Waldemar Kuczyński, Marian Szamatowicz – Total radical-trapping antioxidant parameter (TRAP) in seminal plasma.....	66
Michał Jóźwik, Zbigniew Klubowicz, Marcin Jóźwik, Grażyna Sajewska, Adam Śledziwski, Jolanta Żak, Jan Urban – Plasma antioxidant activities during human fetal development.....	69
Michał Jóźwik, Jolanta Żak, Marcin Jóźwik, Zbigniew Klubowicz, Grażyna Sajewska, Adam Śledziwski, Jan Urban – Lipid peroxidation in erythrocytes and plasma of human umbilical cord blood .....	72
Tamara I. Khomich, Mirosław Soszyński, Andrei G. Moiseenok, Grzegorz Bartosz – Antioxidant effect of pantothenic acid derivatives on the human erythrocyte membrane.....	73
Andrey Kozlov, Anna Iannone, Isabella Zini, Aldo Tomasi – Reactive free radical and nitric oxide determination in an experimental model system of rat brain ischemia and reperfusion .....	82
Wacław Król, Zenon P. Czuba, Grażyna Pietsz, Michael D. Threadgill, Bernadette D. M. Cunningham – Modulation of the cytotoxic activity of murine macrophages by flavones.....	88
Wei Li, Michael J. Meredith, Milton B. Yatvin – Linking AZT to ceramide improves its anti-viral action, decreases marrow toxicity and increases brain uptake and retention .....	94
Marzanna Makarewicz-Plóńska, Ryszard Farbiszewski, Wojciech Dębek – Free radical as mediator of gastrointestinal tract damage in hemorrhagic shock.....	99
Béla Matkovich, Ilona Sz. Varga, Do Quy Hai, Éva Fekete – Nitric oxide (NO): a new, but nowadays very popular free radical .....	102
Diana Metodiewa, Lidia Gębicka, Janusz Bednarek – Catalase-mediated semiquinone and chromanoxyl radicals formation: direct observation of their synergistic interactions or decay at room temperature .....	107
Przemysław M. Plonka, Jolanta Raczek, Beata K. Plonka, Stanisław J. Lukiewicz – EPR studies on nitric oxide generation in the ascitic form of murine lymphoma .....	112
Błażej Różga – The effect of ionizing radiation and carminomycin on plasma membrane of human trisomic fibroblasts.....	116
Elżbieta Skrzydlewska, Ryszard Farbiszewski – Antioxidant status of liver in methanol induced liver injury in rats .....	121
Ivan Stepuro, Alexey Solodunov, Vitaliy Stepuro, Sergey Maskevich, Boris Dzhagarov, Nikolay Kruk – Fluorescent and photochemical properties of stable adducts of pyridoxal phosphate and other carbonyl compounds with hemoglobin and human serum albumin.....	125
Helga Schüßler, Luitpold Distel, Renate Sieber – Radiolysis of DNA in the presence of proteins .....	133

