

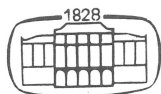
RADICALS, IONS AND TISSUE DAMAGE

Edited by

Matkovics, B.

Karmazsin, L.

Kalász, H.



AKADÉMIAI KIADÓ · BUDAPEST 1990

CONTENTS

Role of oxidative stress in plants on the development of necrosis induced by pathogens Ádám, A., Érsek, T., Barna, B. and Király, Z.	1
Role of free radicals in the development of pneumocyte proliferation Barabás, K., Selypes, A. and Serényi, P.	19
Modified lipoproteins Bariska, J.	29
Measurement of urinary caffeine metabolites reflecting the <i>in vivo</i> xanthine oxidase activity in premature infants with RDS and in hypoxic states of children Boda, D. and Németh, I.	35
The ratio of oxidized/reduced glutathione as an index of oxidative stress in various experimental models of shock syndrome Németh, I. and Boda, D.	41
Investigations on some lipid peroxidative parameters of geese Bokoriné, Á.P., Borostyánkői, F. and Vetési, M.	47
State of antioxidative protective system of blood during ageing Csóvári, M., Strenger, J., Angyal, T., Nagy, R. and Hajdú, E.	49
Correlations between lipid peroxidation, nutritional state and redox state in different muscles of the frog Dely, M., Zsoldos, T., Puppi, A. and Tigyi, A.	61
	VII

Formation of free radicals inducing membrane damage in foods	67
Dworschák, E., Lugasi, A., Bíró, Gy., Blázovits, A., Biacs, P. and J. Zsinka, Á.	
The effects of vitamin E on tissue oxidation in nephrotoxic (anti-GBM) nephritis	75
Endreffy, E., Túri, S., Lászik, Z., Beretzki, Cs. and Kása, K.	
Effects of ionising radiation, H ₂ O ₂ and S-2-aminoethyl isothiuronium bromide. HBr on the surface of red blood cells	87
Fűrész, J., Schweitzer, K., Gyűszű, K. and Gelencsér, F.	
Blood lipid peroxidative (LP) parameters in dairy cows with various liver lipid contents	95
Gaál, T., Karsai, F., Mézes, M., Ribiczey, Sz.P. and Brydl, E.	
Lipid peroxidation in seronegative spondylarthritis	99
Genti, Gy., Horváth, E., Rojkovich, B. and Bálint, G.	
Autoxidation test for measuring the lipid peroxidation capacity of liver tissue	101
Imre, S. and Virág, L.	
Influence of superoxide dismutase and iloprost on ischemia-induced arrhythmias and postischemic myocardial function	109
Jänichen, F., Zelck, U., Wulkow, R., Karnstedt, U., Grisk, A. and Lange, P.	
Serum antioxidant activity in premature babies	117
Karmazsin, L., Oláh, V.A., Balla, Gy. and Makay, A.	
The effects of OH [•] scavengers on the radiation- induced increase of micronucleus frequency in human lymphocytes	125
Kormos, Cs. and Köteles, G.J.	
The antioxidant effect of BF-100 in Mongrel dogs	131
László, K. and Szmollény, G.	

Antioxidant enzymes and lipid peroxidation in the hemolysates of tumorous patients László, A., Matkovics, B., Varga, Sz.I. and Karácsonyi, S.	137
Red blood cell and plasma lipid peroxidation as an indicator in diseases Matkovics, B. and Varga, Sz.I.	143
Effects of plasmodium infection in mice on host-parasite antioxidant enzymes and other parameters Matkovics, B., Do Quy Hai., Varga, Sz.I., Földes, J. and Matyi, A.	149
Methods for the investigation of lipid peroxidation and the biological antioxidant defence mechanism Mézes, M.	157
Inhibitory effect of gold complexes (sodium aurothiomalate and auranofin) on glutathione peroxidase activity in different species Mézes, M.	169
Peroxinorm injection as a possible SOD standard Mohácsi, L. and Borostyánkői, L.	175
Renal ischemia and reperfusion effect characterized by free radical reactions Morvai, Gy., Róth, E. and Török, B.	177
Effects of whole-body irradiation on antioxidant enzymes and lipid peroxidation of inbred mice Novák, R., Matkovics, B. and Fajcsák, J.	183
In vitro investigation of hydroxyl-scavenging effect of Cavinton® Oláh, V.A., Balla, G., Balla, J., Szabolcs, A. and Karmazsin, L.	191
Ceruloplasmin: an antioxidant forgotten? Oroszlán, G. and Szabó, T.	199
Causes of ceruloplasmin deficiency in sick infants Szabó, T. and Oroszlán, G.	209

Effect of antioxidant treatment during healing of experimental myocardial infarction Róth, E., Török, B., Kelemen, D. and Pollák, Zs.	213
Free radical-initiated functional disturbances of peripheral nervous tissue. A single case study Schulz-Várszegi, M., Durkó, I., Varga, Sz.I., Zombori, J., Dibó, G. and Sömogyi, I.	221
Effects of SH-containing radioprotectors related to cysteamine on several experimental ulcer-models in rats Schweitzer, K., Fűrész, J. and Gelencsér, F.	231
Multifaceted role of trace elements in the pathogenesis of chronic arthritis Síró, B., Lakatos, B., Szelekovszky, S. and Szatmári, E.	237
Local treatment of chronic inflammatory conditions with propolis enriched with antiphlogistic trace metal ions Szelekovszky, S., Síró, B., Szatmári, E. and Lakatos, B.	257
Lipid peroxide production in rat liver microsomes after treatment with enzyme inducer compounds Szeberényi, Sz.	271
Oxygen free radicals in myocardial ischemic states Török, B. and Róth, E.	273
The effects of dinh lang root extract on the activities of peroxide metabolism enzymes in rats Tran Ty Yen, Kalász, H. and Matkovics, B.	279
Lipid peroxidation of Ehrlich ascites tumor cells mitochondria Tretter, L., Szabados, Gy., Mézes, M., Thi Ha Nguyen and Horváth, I.	293
Interconnections between the structure and charge of crystals and lipid peroxidative effects in the cell-damaging influence of quartz Zsoldos, T., Tigyi, A. and Kaposvári, F.	299

Increased sensitivity of erythrocytes to oxidant stress in children celiac disease	309
Boda, M. and Németh I.	
Examination of tissue glutathione redox system in newborn pigs with paraplegia caused by short-term aortaligation	317
Tekulits, I., Németh, I. and Kovács, J.	
Subject Index	321