Ranieri Rossi

List of Publications by Year
in descending order

131	13,536	28242	21521
papers	citations	55 h-index	114 g-index

133	133	133	16787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of S-glutathionylated proteins by HPLC. Amino Acids, 2022, 54, 675-686.	1.2	5
2	Homogentisic acid induces autophagy alterations leading to chondroptosis in human chondrocytes: Implications in Alkaptonuria. Archives of Biochemistry and Biophysics, 2022, 717, 109137.	1.4	3
3	Blood Thiol Redox State in Chronic Kidney Disease. International Journal of Molecular Sciences, 2022, 23, 2853.	1.8	5
4	Melatonin modulates Nrf2 activity to protect porcine preâ€pubertal Sertoli cells from the abnormal H₂O₂ generation and reductive stress effects of cadmium. Journal of Pineal Research, 2022, 73, .	3.4	18
5	How Aging and Oxidative Stress Influence the Cytopathic and Inflammatory Effects of SARS-CoV-2 Infection: The Role of Cellular Glutathione and Cysteine Metabolism. Antioxidants, 2022, 11, 1366.	2.2	14
6	Superior Properties of N-Acetylcysteine Ethyl Ester over N-Acetyl Cysteine to Prevent Retinal Pigment Epithelial Cells Oxidative Damage. International Journal of Molecular Sciences, 2021, 22, 600.	1.8	11
7	Protein thiolation index in microvolumes of plasma. Analytical Biochemistry, 2021, 618, 114125.	1.1	3
8	The age-dependent decline of the extracellular thiol-disulfide balance and its role in SARS-CoV-2 infection. Redox Biology, 2021, 41, 101902.	3.9	30
9	The effects of 3 weeks of oral glutathione supplementation on whole body insulin sensitivity in obese males with and without type 2 diabetes: a randomized trial. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1133-1142.	0.9	14
10	SARS-CoV2 infection impairs the metabolism and redox function of cellular glutathione. Redox Biology, 2021, 45, 102041.	3.9	58
11	Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting Î³-Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	1.9	7
12	Plasma Protein Carbonyls as Biomarkers of Oxidative Stress in Chronic Kidney Disease, Dialysis, and Transplantation. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-20.	1.9	15
13	Cigarette smoke and glutathione: Focus on in vitro cell models. Toxicology in Vitro, 2020, 65, 104818.	1.1	12
14	The specific PKC-Î± inhibitor chelerythrine blunts costunolide-induced eryptosis. Apoptosis: an International Journal on Programmed Cell Death, 2020, 25, 674-685.	2.2	16
15	Glutathione S-transferase P influences the Nrf2-dependent response of cellular thiols to seleno-compounds. Cell Biology and Toxicology, 2020, 36, 379-386.	2.4	17
16	Homogentisic acid affects human osteoblastic functionality by oxidative stress and alteration of the Wnt/Î²â€catenin signaling pathway. Journal of Cellular Physiology, 2020, 235, 6808-6816.	2.0	13
17	A seleno-hormetine protects bone marrow hematopoietic cells against ionizing radiation-induced toxicities. PLoS ONE, 2019, 14, e0205626.	1.1	13
18	Membrane Skeletal Protein S-Glutathionylation in Human Red Blood Cells as Index of Oxidative Stress. Chemical Research in Toxicology, 2019, 32, 1096-1102.	1.7	16

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19	Protein carbonylation in human bronchial epithelial cells exposed to cigarette smoke extract. Cell Biology and Toxicology, 2019, 35, 345-360.	2.4	26
20	Subclinical ochronosis features in alkaptonuria: a cross-sectional study. BMJ Innovations, 2019, 5, 82-91.	1.0	15
21	S-Nitroso-N-acetyl-L-cysteine ethyl ester (SNACET) and N-acetyl-L-cysteine ethyl ester (NACET)â€“Cysteine-based drug candidates with unique pharmacological profiles for oral use as NO, H2S and GSH suppliers and as antioxidants: Results and overview. Journal of Pharmaceutical Analysis, 2018, 8, 1-9.	2.4	24
22	The new H₂S-releasing compound ACS94 exerts protective effects through the modulation of thiol homoeostasis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1392-1404.	2.5	10
23	N-acetylcysteine ethyl ester as GSH enhancer in human primary endothelial cells: A comparative study with other drugs. Free Radical Biology and Medicine, 2018, 126, 202-209.	1.3	19
24	Plasma protein-bound di-tyrosines as biomarkers of oxidative stress in end stage renal disease patients on maintenance haemodialysis. BBA Clinical, 2017, 7, 55-63.	4.1	16
25	No evidence of DNA damage by co-exposure to extremely low frequency magnetic fields and aluminum on neuroblastoma cell lines. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 823, 11-21.	0.9	13
26	Determination of protein thiolation index (PTI) as a biomarker of oxidative stress in human serum. Analytical Biochemistry, 2017, 538, 38-41.	1.1	10
27	Assessment of glutathione/glutathione disulphide ratio and S-glutathionylated proteins in human blood, solid tissues, and cultured cells. Free Radical Biology and Medicine, 2017, 112, 360-375.	1.3	111
28	Thiol oxidation and di-tyrosine formation in human plasma proteins induced by inflammatory concentrations of hypochlorous acid. Journal of Proteomics, 2017, 152, 22-32.	1.2	34
29	Protein Carbonylation in Human Smokers and Mammalian Models of Exposure to Cigarette Smoke: Focus on Redox Proteomic Studies. Antioxidants and Redox Signaling, 2017, 26, 406-426.	2.5	13
30	Pharmacological targeting of glucose-6-phosphate dehydrogenase in human erythrocytes by Bay 11â€“7082, parthenolide and dimethyl fumarate. Scientific Reports, 2016, 6, 28754.	1.6	33
31	Immediate stabilization of human blood for delayed quantification of endogenous thiols and disulfides. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 51-58.	1.2	20
32	Pitfalls in the analysis of the physiological antioxidant glutathione (GSH) and its disulfide (GSSG) in biological samples: An elephant in the room. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 21-28.	1.2	107
33	A step-by-step protocol for assaying protein carbonylation in biological samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 178-190.	1.2	119
34	Insulin administration: present strategies and future directions for a noninvasive (possibly) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td	2.0	60
35	Dietary Intake of Proteins and Calories Is Inversely Associated With The Oxidation State of Plasma Thiols in End-Stage Renal Disease Patients. , 2015, 25, 494-503.		16
36	Glutathione, glutathione disulfide, and S-glutathionylated proteins in cell cultures. Free Radical Biology and Medicine, 2015, 89, 972-981.	1.3	59

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37	A central role for intermolecular dityrosine cross-linking of fibrinogen in high molecular weight advanced oxidation protein product (AOPP) formation. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1-12.	1.1	48
38	Pathophysiology of tobacco smoke exposure: Recent insights from comparative and redox proteomics. Mass Spectrometry Reviews, 2014, 33, 183-218.	2.8	39
39	Micro-method for the determination of glutathione in human blood. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 964, 191-194.	1.2	36
40	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. Blood Cells, Molecules, and Diseases, 2014, 52, 166-174.	0.6	13
41	Anethole dithiolethione lowers the homocysteine and raises the glutathone levels in solid tissues and plasma of rats: A novel non-vitamin homocysteine-lowering agent. Biochemical Pharmacology, 2014, 89, 246-254.	2.0	18
42	Analysis of GSH and GSSG after derivatization with N-ethylmaleimide. Nature Protocols, 2013, 8, 1660-1669.	5.5	257
43	Glutathione redox potential is low and glutathionylated and cysteinylated hemoglobin levels are elevated in maintenance hemodialysis patients. Translational Research, 2013, 162, 16-25.	2.2	39
44	Protein thiolation index (PTI) as a biomarker of oxidative stress. Free Radical Biology and Medicine, 2012, 53, 907-915.	1.3	40
45	N-Acetylcysteine ethyl ester (NACET): A novel lipophilic cell-permeable cysteine derivative with an unusual pharmacokinetic feature and remarkable antioxidant potential. Biochemical Pharmacology, 2012, 84, 1522-1533.	2.0	68
46	The soy phytoestrogens genistein and daidzein as neuroprotective agents against anoxia-glucopenia and reperfusion damage in rat urinary bladder. Pharmacological Research, 2012, 66, 309-316.	3.1	17
47	Redox Albuminomics: Oxidized Albumin in Human Diseases. Antioxidants and Redox Signaling, 2012, 17, 1515-1527.	2.5	121
48	Oxidative damage in human gingival fibroblasts exposed to cigarette smoke. Free Radical Biology and Medicine, 2012, 52, 1584-1596.	1.3	73
49	Red Blood Cells Protect Albumin from Cigarette Smokeâ€“Induced Oxidation. PLoS ONE, 2012, 7, e29930.	1.1	22
50	S-Glutathiolation in life and death decisions of the cell. Free Radical Research, 2011, 45, 3-15.	1.5	58
51	Therapeutic potential of new hydrogen sulfide-releasing hybrids. Expert Review of Clinical Pharmacology, 2011, 4, 109-121.	1.3	73
52	Study of the effect of thiols on the vasodilatory potency of S-nitrosothiols by using a modified aortic ring assay. Toxicology and Applied Pharmacology, 2011, 256, 95-102.	1.3	11
53	Low molecular mass thiols, disulfides and protein mixed disulfides in rat tissues: Influence of sample manipulation, oxidative stress and ageing. Mechanisms of Ageing and Development, 2011, 132, 141-148.	2.2	58
54	Detection of glutathione in whole blood after stabilization with N-ethylmaleimide. Analytical Biochemistry, 2011, 415, 81-83.	1.1	59

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55	Modulation of thiol homeostasis induced by H2S-releasing aspirin. Free Radical Biology and Medicine, 2010, 48, 1263-1272.	1.3	47
56	On the mercapturic acid pathway of nitric oxide: is S-nitrosoglutathione present in the bile?. Hepatology, 2010, 52, 1858-1859.	3.6	1
57	HPLC determination of novel dithiolethione containing drugs and its application for in vivo studies in rats. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 340-346.	1.2	3
58	The potential of resveratrol against human gliomas. Anti-Cancer Drugs, 2010, 21, 140-150.	0.7	49
59	Water-Soluble Î±,Î²-Unsaturated Aldehydes of Cigarette Smoke Induce Carbonylation of Human Serum Albumin. Antioxidants and Redox Signaling, 2010, 12, 349-364.	2.5	68
60	Effects of Hydrogen Sulfide-releasing l-DOPA Derivatives on Glial Activation. Journal of Biological Chemistry, 2010, 285, 17318-17328.	1.6	99
61	Cellular redox potential and hemoglobin S-glutathionylation in human and rat erythrocytes: A comparative study. Blood Cells, Molecules, and Diseases, 2010, 44, 133-139.	0.6	18
62	Differential thiol status in blood of different mouse strains exposed to cigarette smoke. Free Radical Research, 2009, 43, 538-545.	1.5	10
63	Letter by Tsikas and Rossi Regarding Article, â€œNitrite Anion Provides Potent Cytoprotective and Antiapoptotic Effects as Adjunctive Therapy to Reperfusion for Acute Myocardial Infarctionâ€• Circulation, 2009, 119, e531; author reply e532.	1.6	0
64	S-Nitrosothiols in Blood: Does Photosensitivity Explain a 4-Order-of-Magnitude Concentration Range?. Clinical Chemistry, 2009, 55, 1036-1038.	1.5	6
65	Protein S-glutathionylation: a regulatory device from bacteria to humans. Trends in Biochemical Sciences, 2009, 34, 85-96.	3.7	557
66	Cysteinylation and homocysteinylation of plasma protein thiols during ageing of healthy human beings. Journal of Cellular and Molecular Medicine, 2009, 13, 3131-3140.	1.6	89
67	Pharmacological profile of a novel H2S-releasing aspirin. Free Radical Biology and Medicine, 2009, 46, 586-592.	1.3	121
68	Protein carbonylation: 2,4-dinitrophenylhydrazine reacts with both aldehydes/ketones and sulfenic acids. Free Radical Biology and Medicine, 2009, 46, 1411-1419.	1.3	76
69	Oxidative stress induces a reversible flux of cysteine from tissues to blood inâ€ƒvivo in the rat. FEBS Journal, 2009, 276, 4946-4958.	2.2	20
70	Evidence against a role of ketone bodies in the generation of oxidative stress in human erythrocytes by the application of reliable methods for thiol redox form detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3467-3474.	1.2	8
71	Analysis of thiols. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3271-3273.	1.2	18
72	Carboplatin-induced alteration of the thiol homeostasis in the isolated perfused rat kidney. Archives of Biochemistry and Biophysics, 2009, 488, 83-89.	1.4	8

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73	Oxidative stress and human diseases: Origin, link, measurement, mechanisms, and biomarkers. Critical Reviews in Clinical Laboratory Sciences, 2009, 46, 241-281.	2.7	348
74	Molecular Mechanisms and Potential Clinical Significance ofS-Glutathionylation. Antioxidants and Redox Signaling, 2008, 10, 445-474.	2.5	275
75	Nitrite and Nitrate Measurement by Griess Reagent in Human Plasma: Evaluation of Interferences and Standardization. Methods in Enzymology, 2008, 440, 361-380.	0.4	272
76	Is ascorbate able to reduce disulfide bridges? A cautionary note. Nitric Oxide - Biology and Chemistry, 2008, 19, 252-258.	1.2	112
77	Red blood cells as a physiological source of glutathione for extracellular fluids. Blood Cells, Molecules, and Diseases, 2008, 40, 174-179.	0.6	70
78	Cocoa Intake and Blood Pressure. JAMA - Journal of the American Medical Association, 2007, 298, 1860.	3.8	7
79	Detection of S-nitrosothiols in biological fluids: A comparison among the most widely applied methodologies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 124-139.	1.2	120
80	Actin Cys374 as a nucleophilic target of Î±,Î²-unsaturated aldehydes. Free Radical Biology and Medicine, 2007, 42, 583-598.	1.3	82
81	S-glutathionylation in protein redox regulation. Free Radical Biology and Medicine, 2007, 43, 883-898.	1.3	422
82	Oxidized Forms of Glutathione in Peripheral Blood as Biomarkers of Oxidative Stress. Clinical Chemistry, 2006, 52, 1406-1414.	1.5	125
83	Biomarkers of Oxidative Damage in Human Disease. Clinical Chemistry, 2006, 52, 601-623.	1.5	1,395
84	Membrane skeletal protein S-glutathionylation and hemolysis in human red blood cells. Blood Cells, Molecules, and Diseases, 2006, 37, 180-187.	0.6	30
85	Age-Related Influence on Thiol, Disulfide, and Protein-Mixed Disulfide Levels in Human Plasma. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 1030-1038.	1.7	122
86	Protein carbonylation, cellular dysfunction, and disease progression. Journal of Cellular and Molecular Medicine, 2006, 10, 389-406.	1.6	691
87	Metabolism of oxidants by blood from different mouse strains. Biochemical Pharmacology, 2006, 71, 1753-1764.	2.0	20
88	Protein S-glutathionylation and platelet anti-aggregating activity of disulfiram. Biochemical Pharmacology, 2006, 72, 608-615.	2.0	22
89	Proteins as Sensitive Biomarkers of Human Conditions Associated with Oxidative Stress. , 2006, , 485-525.		3
90	Is There an Answer?. IUBMB Life, 2005, 57, 189-192.	1.5	12

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91	S-glutathionylation in human platelets by a thiolâ€“disulfide exchange-independent mechanism. Free Radical Biology and Medicine, 2005, 38, 1501-1510.	1.3	74
92	Proteins as biomarkers of oxidative/nitrosative stress in diseases: The contribution of redox proteomics. Mass Spectrometry Reviews, 2005, 24, 55-99.	2.8	392
93	S-Nitrosation versus S-Glutathionylation of Protein Sulfhydryl Groups by S-Nitrosoglutathione. Antioxidants and Redox Signaling, 2005, 7, 930-939.	2.5	127
94	Plasma S-nitrosothiols and chronic renal failure. American Journal of Physiology - Renal Physiology, 2004, 287, F1294-F1295.	1.3	5
95	S-Glutathionylation: from redox regulation of protein functions to human diseases. Journal of Cellular and Molecular Medicine, 2004, 8, 201-212.	1.6	265
96	Interference of Plasmatic Reduced Glutathione and Hemolysis on Glutathione Disulfide Levels in Human Blood. Free Radical Research, 2004, 38, 1101-1106.	1.5	19
97	Redox State and Carbonic Anhydrase Isozyme IX Expression in Human Renal Cell Carcinoma: Biochemical and Morphological Investigations. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004, 19, 287-291.	2.5	8
98	Adaptation of the Griess Reaction for Detection of Nitrite in Human Plasma. Free Radical Research, 2004, 38, 1235-1240.	1.5	60
99	Nitric oxide, S-nitrosothiols and hemoglobin: is methodology the key?. Trends in Pharmacological Sciences, 2004, 25, 311-316.	4.0	49
100	Protein carbonyl groups as biomarkers of oxidative stress. Clinica Chimica Acta, 2003, 329, 23-38.	0.5	1,888
101	Reversible S-glutathionylation of Cys374 regulates actin filament formation by inducing structural changes in the actin molecule. Free Radical Biology and Medicine, 2003, 34, 23-32.	1.3	178
102	Actin S-glutathionylation: evidence against a thiol-disulphide exchange mechanism. Free Radical Biology and Medicine, 2003, 35, 1185-1193.	1.3	104
103	An improved HPLC measurement for GSH and GSSG in human blood. Free Radical Biology and Medicine, 2003, 35, 1365-1372.	1.3	140
104	Nitric oxide and S-nitrosothiols in human blood. Clinica Chimica Acta, 2003, 330, 85-98.	0.5	117
105	Protein carbonylation in human diseases. Trends in Molecular Medicine, 2003, 9, 169-176.	3.5	813
106	Protein Glutathionylation in Erythrocytes. Clinical Chemistry, 2003, 49, 327-330.	1.5	59
107	Protein Thiols and Glutathione Influence the Nitric Oxide-Dependent Regulation of the Red Blood Cell Metabolism. Nitric Oxide - Biology and Chemistry, 2002, 6, 186-199.	1.2	38
108	Blood Glutathione Disulfide: In Vivo Factor or in Vitro Artifact?. Clinical Chemistry, 2002, 48, 742-753.	1.5	227

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109	The pro-oxidant role of protein SH groups of hemoglobin in rat erythrocytes exposed to menadione. Chemico-Biological Interactions, 2002, 139, 97-114.	1.7	5
110	Methionine oxidation as a major cause of the functional impairment of oxidized actin. Free Radical Biology and Medicine, 2002, 32, 927-937.	1.3	126
111	In Vitro Study of Methylmercury in Blood of Bottlenose Dolphins (Tursiops truncatus). Archives of Environmental Contamination and Toxicology, 2002, 42, 348-353.	2.1	25
112	Blood glutathione disulfide: in vivo factor or in vitro artifact?. Clinical Chemistry, 2002, 48, 742-53.	1.5	53
113	Physiological Levels of S -Nitrosothiols in Human Plasma. Circulation Research, 2001, 89, .	2.0	38
114	Responses of thiols to an oxidant challenge: differences between blood and tissues in the rat. Chemico-Biological Interactions, 2001, 134, 73-85.	1.7	21
115	Actin carbonylation: from a simple marker of protein oxidation to relevant signs of severe functional impairment. Free Radical Biology and Medicine, 2001, 31, 1075-1083.	1.3	148
116	The actin cytoskeleton response to oxidants: from small heat shock protein phosphorylation to changes in the redox state of actin itself. Free Radical Biology and Medicine, 2001, 31, 1624-1632.	1.3	353
117	Different Metabolizing Ability of Thiol Reactants in Human and Rat Blood. Journal of Biological Chemistry, 2001, 276, 7004-7010.	1.6	76
118	Altered glutathione anti-oxidant metabolism during tumor progression in human renal-cell carcinoma. International Journal of Cancer, 2001, 91, 55-59.	2.3	61
119	S-NO-actin: S-nitrosylation kinetics and the effect on isolated vascular smooth muscle. Journal of Muscle Research and Cell Motility, 2000, 21, 171-181.	0.9	81
120	The oxidation produced by hydrogen peroxide on Caâ€ATPâ€Câ€actin. Protein Science, 2000, 9, 1774-1782.	3.1	58
121	Minor Thiols Cysteine and Cysteinylglycine Regulate the Competition between Glutathione and Protein SH Groups in Human Platelets Subjected to Oxidative Stress. Archives of Biochemistry and Biophysics, 2000, 380, 1-10.	1.4	25
122	Ozonation of Blood during Extracorporeal Circulation. I. Rationale, Methodology and Preliminary Studies. International Journal of Artificial Organs, 1999, 22, 645-651.	0.7	18
123	Preferential Transport of Glutathione versusGlutathione Disulfide in Rat Liver Microsomal Vesicles. Journal of Biological Chemistry, 1999, 274, 12213-12216.	1.6	113
124	The Role of Cysteine in the Regulation of Blood Glutathioneâ€“Protein Mixed Disulfides in Rats Treated with Diamide. Toxicology and Applied Pharmacology, 1998, 148, 56-64.	1.3	21
125	Fast-reacting Thiols in Rat Hemoglobins Can Intercept Damaging Species in Erythrocytes More Efficiently Than Glutathione. Journal of Biological Chemistry, 1998, 273, 19198-19206.	1.6	60
126	Role of Protein -SH Groups in Redox Homeostasisâ€" The Erythrocyte as a Model System. Archives of Biochemistry and Biophysics, 1998, 355, 145-152.	1.4	109

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127	Antioxidant status in various tissues of the mouse after fasting and swimming stress. European Journal of Applied Physiology, 1997, 76, 302-307.	1.2	50
128	A Method to Study Kinetics of Transnitrosation with Nitrosoglutathione: Reactions with Hemoglobin and Other Thiols. Analytical Biochemistry, 1997, 254, 215-220.	1.1	59
129	Different mechanisms of formation of glutathione-protein mixed disulfides of diamide and tert-butyl hydroperoxide in rat blood. Biochimica Et Biophysica Acta - General Subjects, 1996, 1289, 252-260.	1.1	26
130	Thiol groups in proteins as endogenous reductants to determine glutathione-protein mixed disulphides in biological systems. Biochimica Et Biophysica Acta - General Subjects, 1995, 1243, 230-238.	1.1	68
131	The time-course of mixed disulfide formation between GSH and proteins in rat blood after oxidative stress with tert-butyl hydroperoxide. Biochimica Et Biophysica Acta - General Subjects, 1994, 1199, 245-252.	1.1	24