

# R B Rucker

## List of Publications by Year in descending order

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82  
papers

3,799  
citations

136740

32  
h-index

128067

60  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Allometric scaling, metabolic body size and interspecies comparisons of basal nutritional requirements. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2007, 91, 148-156.	1.0	28
2	Pyroloquinoline quinone nutritional status alters lysine metabolism and modulates mitochondrial DNA content in the mouse and rat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1741-1748.	1.1	41
3	Physiological Importance of Quinoenzymes and the O-Quinone Family of Cofactors. <i>Journal of Nutrition</i> , 2000, 130, 719-727.	1.3	123
4	Lysyl Oxidase and P-ATPase-7A Expression during Embryonic Development in the Rat. <i>Archives of Biochemistry and Biophysics</i> , 2000, 379, 71-77.	1.4	38
5	Synthesis of [14C]pyroloquinoline quinone (PQQ) in E. coli using genes for PQQ synthesis from K. pneumoniae. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1524, 247-252.	1.1	6
6	Activation of Chick Tendon Lysyl Oxidase in Response to Dietary Copper. <i>Journal of Nutrition</i> , 1999, 129, 2143-2146.	1.3	13
7	Characterization of Pyroloquinoline Quinone Amino Acid Derivatives by Electrospray Ionization Mass Spectrometry and Detection in Human Milk. <i>Analytical Biochemistry</i> , 1999, 269, 317-325.	1.1	85
8	Rat embryos cultured under copper-deficient conditions develop abnormally and are characterized by an impaired oxidant defense system. , 1998, 57, 310-320.		35
9	Copper, lysyl oxidase, and extracellular matrix protein cross-linking. <i>American Journal of Clinical Nutrition</i> , 1998, 67, 996S-1002S.	2.2	294
10	Effect of copper deficiency on prenatal development and pregnancy outcome. <i>American Journal of Clinical Nutrition</i> , 1998, 67, 1003S-1011S.	2.2	125
11	Incorporation of copper into lysyl oxidase. <i>Biochemical Journal</i> , 1997, 327, 283-289.	1.7	42
12	Pyridoxine deficiency affects biomechanical properties of chick tibial bone. <i>Bone</i> , 1996, 18, 567-574.	1.4	97
13	Modulation of Lysyl Oxidase by Dietary Copper in Rats. <i>Journal of Nutrition</i> , 1996, 126, 51-60.	1.3	46
14	Maternal zinc deficiency, but not copper deficiency or diabetes, results in increased embryonic cell death in the rat: Implications for mechanisms underlying abnormal development. <i>Teratology</i> , 1995, 51, 85-93.	1.8	35
15	Effect of a metallothionein antisense oligonucleotide on embryo development. <i>Reproductive Toxicology</i> , 1995, 9, 123-130.	1.3	8
16	Copper deficiency alters isomyosin types and levels of laminin, fibronectin and cytochrome c oxidase subunits from rat hearts. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995, 111, 61-67.	0.7	15
17	Dietary Pyroloquinoline Quinone: Growth and Immune Response in BALB/c Mice. <i>Journal of Nutrition</i> , 1994, 124, 744-753.	1.3	84
18	Regulation of Clara cell 10 kD protein secretion by pilocarpine: quantitative comparison of nonciliated cells in rat bronchi and bronchioles based on laser scanning confocal microscopy.. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1994, 10, 259-270.	1.4	9

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19	Elastin degradation in the aorta of Watanabe hereditary hyperlipidemic rabbits. Mechanisms of Ageing and Development, 1994, 74, 117-120.	2.2	5
20	New perspectives on function of vitamins. Nutrition, 1994, 10, 507-13.	1.1	4
21	Effect of maternal diabetes and dietary copper on fetal development in rats. Reproductive Toxicology, 1993, 7, 589-598.	1.3	21
22	Expression and Accumulation of Lysyl Oxidase, Elastin, and Type I Procollagen in Human Menkes and Mottled Mouse Fibroblasts. Archives of Biochemistry and Biophysics, 1993, 301, 325-329.	1.4	61
23	Quantitative comparison of intracellular concentration and volume of Clara cell 10 KD protein in rat bronchi and bronchioles based on laser scanning confocal microscopy.. Journal of Histochemistry and Cytochemistry, 1993, 41, 1171-1183.	1.3	30
24	Chemical modifications of proteins in vivo: selected examples important to cellular regulation. Journal of Nutrition, 1993, 123, 977-90.	1.3	16
25	Enzymatic and nonenzymatic cross-linking of collagen and elastin. FASEB Journal, 1992, 6, 2439-2449.	0.2	408
26	Physiologic Importance of Pyrroloquinoline Quinone. Experimental Biology and Medicine, 1991, 197, 19-26.	1.1	39
27	Intestinal Absorption and Tissue Distribution of [14C]Pyrroloquinoline Quinone in Mice. Experimental Biology and Medicine, 1991, 197, 27-31.	1.1	43
28	Does the intestinal microflora synthesize pyrroloquinoline quinone?. BioFactors, 1991, 3, 53-9.	2.6	10
29	Nutritional importance of pyrroloquinoline quinone. Science, 1989, 245, 850-852.	6.0	190
30	Ontogenic Development of the Elastic Component of the Aortic wall in Spontaneously Hypertensive Rats. Clinical and Experimental Hypertension, 1989, 11, 173-187.	0.3	11
31	Superoxide dismutase activity in lung from copper- and manganese-deficient mice exposed to ozone. Toxicology Letters, 1988, 42, 149-157.	0.4	13
32	Cofactors in and as posttranslational protein modifications. FASEB Journal, 1988, 2, 2252-2261.	0.2	33
33	The effects of ozone on lung, heart, and liver superoxide dismutase and glutathione peroxidase activities in the protein-deficient rat. Toxicology Letters, 1987, 38, 225-237.	0.4	11
34	Role of plasma and serum proteases in the degradation of elastin. Archives of Biochemistry and Biophysics, 1986, 244, 161-168.	1.4	18
35	Lung collagen and elastin after ozone exposure in vitamin B-6-deficient rats. Toxicology Letters, 1986, 30, 55-61.	0.4	6
36	Tropoelastin production and tropoelastin messenger RNA activity. Relationship to copper and elastin cross-linking in chick aorta. Biochemical Journal, 1986, 237, 17-23.	1.7	11

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37	Effect of vitamin B-6 (pyridoxine) deficiency on lung elastin cross-linking in perinatal and weanling rat pups. <i>Biochemical Journal</i> , 1985, 229, 153-160.	1.7	34
38	Role of selected nutrients in synthesis, accumulation, and chemical modification of connective tissue proteins.. <i>Physiological Reviews</i> , 1985, 65, 607-657.	13.1	68
39	Effects of Protein Deficiency and Food Restriction on Lung Ascorbic Acid and Glutathione in Rats Exposed to Ozone. <i>Journal of Nutrition</i> , 1985, 115, 1050-1056.	1.3	22
40	Elastin Metabolism During Perinatal Lung Development in the Copper-Deficient Rat. <i>Experimental Lung Research</i> , 1985, 8, 227-241.	0.5	27
41	Elastin metabolism and chemistry: potential roles in lung development and structure.. <i>Environmental Health Perspectives</i> , 1984, 55, 179-191.	2.8	78
42	Ozone exposure, food restriction and protein deficiency: Changes in collagen and elastin in rodent lung. <i>Toxicology Letters</i> , 1984, 23, 43-49.	0.4	11
43	Morphological and biochemical features of elastase-induced emphysema in strain AJ mice. <i>Toxicology and Applied Pharmacology</i> , 1983, 68, 451-461.	1.3	30
44	Modification of arterial elastin in vivo. <i>BBA - Proteins and Proteomics</i> , 1983, 743, 338-342.	2.1	9
45	Ascorbic acid turnover in the mouse following acute ozone exposure. <i>Toxicology</i> , 1983, 27, 301-313.	2.0	16
46	Elastin synthesis during perinatal lung development in the rat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1983, 761, 17-22.	1.1	30
47	Protein Deficiency: Effects on Lung Mechanics and the Accumulation of Collagen and Elastin in Rat Lung. <i>Journal of Nutrition</i> , 1983, 113, 2308-2315.	1.3	30
48	Interactions of ascorbic acid supplementation and bleomycin instillation on murine lung connective tissue metabolism. <i>Drug-nutrient Interactions</i> , 1983, 2, 105-15.	0.1	1
49	[36] Isolation of soluble elastin from copper-deficient chick aorta. <i>Methods in Enzymology</i> , 1982, 82 Pt A, 650-657.	0.4	10
50	Role of Copper in Collagen Cross-linking and Its Influence on Selected Mechanical Properties of Chick Bone and Tendon. <i>Journal of Nutrition</i> , 1982, 112, 708-716.	1.3	154
51	Dietary Cadmium, Zinc and Copper: Effects on Chick Lung Morphology and Elastin Cross-linking. <i>Journal of Nutrition</i> , 1982, 112, 1344-1352.	1.3	11
52	Egg shell membrane protein: A nonelastin desmosine/ isodesmosine-containing protein. <i>Archives of Biochemistry and Biophysics</i> , 1981, 207, 353-359.	1.4	47
53	Primary structure of a chick tropoelastin peptide: Evidence for a collagen-like amino acid sequence. <i>Biochemical and Biophysical Research Communications</i> , 1981, 103, 880-885.	1.0	27
54	Elastin metabolism in rodent lung. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1981, 672, 303-306.	1.1	59

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55	Elastin turnover in murine lung after repeated ozone exposure. <i>Toxicology and Applied Pharmacology</i> , 1981, 58, 203-210.	1.3	17
56	Hypothetical calculations of ascorbic acid synthesis based on estimates in vitro. <i>American Journal of Clinical Nutrition</i> , 1980, 33, 961-964.	2.2	15
57	VITAMIN A DEFICIENCY AND ABNORMAL METABOLISM OF IRON. <i>Annals of the New York Academy of Sciences</i> , 1980, 355, 58-61.	1.8	11
58	Aorta elastin turnover in normal and hypercholesterolemic Japanese quail. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1980, 630, 519-529.	1.1	96
59	Role of Vitamin A in the Absorption, Retention and Distribution of Iron in the Rat. <i>Journal of Nutrition</i> , 1979, 109, 129-137.	1.3	61
60	Clinical signs of anemia in vitamin A-deficient rats. <i>American Journal of Clinical Nutrition</i> , 1979, 32, 1439-1444.	2.2	65
61	Viscoelastic properties of copper deficient chick bone. <i>Journal of Biomechanics</i> , 1979, 12, 197-203.	0.9	9
62	Partial characterization of a tropoelastin precursor isolated from chick aorta. <i>Biochemistry</i> , 1979, 18, 3854-3859.	1.2	7
63	Additional evidence for a proform to tropoelastin from chick aorta. <i>Biochemical Journal</i> , 1979, 177, 559-567.	1.7	17
64	Inhibition of elastolysis by proteinase inhibitors from chick plasma and aorta. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1978, 539, 267-275.	1.1	8
65	Cross-linking amino acids in collagen and elastin <sup>1</sup> . <i>American Journal of Clinical Nutrition</i> , 1978, 31, 1221-1236.	2.2	77
66	Hematopoietic studies in vitamin A deficiency. <i>American Journal of Clinical Nutrition</i> , 1978, 31, 876-885.	2.2	182
67	Putative forms of soluble elastin and their relationship to the synthesis of fibrous elastin. <i>Biochemical and Biophysical Research Communications</i> , 1977, 75, 358-365.	1.0	23
68	Arterial Elastin Synthesis in the Growing Chick. <i>Advances in Experimental Medicine and Biology</i> , 1977, 79, 461-475.	0.8	6
69	Nutritional Copper Deficiency and Penicillamine Administration: Some Effects on Bone Collagen and Arterial Elastin Crosslinking. <i>Advances in Experimental Medicine and Biology</i> , 1977, 86B, 619-648.	0.8	16
70	Structure and metabolism of arterial elastin. <i>International Review of Experimental Pathology</i> , 1977, 17, 1-47.	0.2	115
71	Arterial elastin synthesis in the young chick. <i>Nucleic Acids and Protein Synthesis</i> , 1976, 442, 432-436.	1.7	13
72	Effects of Nutritional Copper Deficiency on the Biomechanical Properties of Bone and Arterial Elastin Metabolism in the Chick. <i>Journal of Nutrition</i> , 1975, 105, 1062-1070.	1.3	68

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73	Effects of High Dietary Levels of Cholesterol on the Metabolism of Tropoelastin and Proteolytic Enzymes in the Chick Aorta. <i>Journal of Nutrition</i> , 1975, 105, 46-56.	1.3	17
74	Chick tropoelastin isolation and partial chemical characterization. <i>Biochemical and Biophysical Research Communications</i> , 1975, 66, 287-292.	1.0	29
75	Additional evidence for the binding of calcium ions to elastin at neutral sites. <i>Calcified Tissue Research</i> , 1974, 14, 317-325.	1.3	23
76	Calcium Binding to Elastin. <i>Advances in Experimental Medicine and Biology</i> , 1974, 48, 185-209.	0.8	32
77	Properties of chick tropoelastin. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1973, 317, 193-201.	1.7	38
78	Valine incorporation into elastin-rich fractions from chick aorta. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1972, 279, 213-216.	1.1	5
79	Isolation and Properties of Soluble Elastin from Copper-deficient Chicks. <i>Journal of Nutrition</i> , 1972, 102, 563-570.	1.3	45
80	The effect of alloxan diabetes on skin collagen metabolism. <i>Experientia</i> , 1972, 28, 508-509.	1.2	3
81	Effect of Copper Deficiency on Chick Bone Collagen and Selected Bone Enzymes. <i>Journal of Nutrition</i> , 1969, 98, 57-63.	1.3	60
82	The effects of copper on collagen cross-linking. <i>Biochemical and Biophysical Research Communications</i> , 1969, 34, 28-33.	1.0	23