

# R B Rucker

## List of Publications by Year in descending order

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82  
papers

3,799  
citations

136950  
32  
h-index

128289  
60  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic and nonenzymatic cross-linking of collagen and elastin. FASEB Journal, 1992, 6, 2439-2449.	0.5	408
2	Copper, lysyl oxidase, and extracellular matrix protein cross-linking. American Journal of Clinical Nutrition, 1998, 67, 996S-1002S.	4.7	294
3	Nutritional importance of pyrroloquinoline quinone. Science, 1989, 245, 850-852.	12.6	190
4	Hematopoietic studies in vitamin A deficiency. American Journal of Clinical Nutrition, 1978, 31, 876-885.	4.7	182
5	Role of Copper in Collagen Cross-linking and Its Influence on Selected Mechanical Properties of Chick Bone and Tendon. Journal of Nutrition, 1982, 112, 708-716.	2.9	154
6	Effect of copper deficiency on prenatal development and pregnancy outcome. American Journal of Clinical Nutrition, 1998, 67, 1003S-1011S.	4.7	125
7	Physiological Importance of Quinoenzymes and the O-Quinone Family of Cofactors. Journal of Nutrition, 2000, 130, 719-727.	2.9	123
8	Structure and metabolism of arterial elastin. International Review of Experimental Pathology, 1977, 17, 1-47.	0.2	115
9	Pyridoxine deficiency affects biomechanical properties of chick tibial bone. Bone, 1996, 18, 567-574.	2.9	97
10	Aorta elastin turnover in normal and hypercholesterolemic Japanese quail. Biochimica Et Biophysica Acta - General Subjects, 1980, 630, 519-529.	2.4	96
11	Characterization of Pyrroloquinoline Quinone Amino Acid Derivatives by Electrospray Ionization Mass Spectrometry and Detection in Human Milk. Analytical Biochemistry, 1999, 269, 317-325.	2.4	85
12	Dietary Pyrroloquinoline Quinone: Growth and Immune Response in BALB/c Mice. Journal of Nutrition, 1994, 124, 744-753.	2.9	84
13	Elastin metabolism and chemistry: potential roles in lung development and structure.. Environmental Health Perspectives, 1984, 55, 179-191.	6.0	78
14	Cross-linking amino acids in collagen and elastin1. American Journal of Clinical Nutrition, 1978, 31, 1221-1236.	4.7	77
15	Effects of Nutritional Copper Deficiency on the Biomechanical Properties of Bone and Arterial Elastin Metabolism in the Chick. Journal of Nutrition, 1975, 105, 1062-1070.	2.9	68
16	Role of selected nutrients in synthesis, accumulation, and chemical modification of connective tissue proteins.. Physiological Reviews, 1985, 65, 607-657.	28.8	68
17	Clinical signs of anemia in vitamin A-deficient rats. American Journal of Clinical Nutrition, 1979, 32, 1439-1444.	4.7	65
18	Role of Vitamin A in the Absorption, Retention and Distribution of Iron in the Rat. Journal of Nutrition, 1979, 109, 129-137.	2.9	61

#	ARTICLE	IF	CITATIONS
19	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.	3.0	61
20	Effect of Copper Deficiency on Chick Bone Collagen and Selected Bone Enzymes. Journal of Nutrition, 1969, 98, 57-63.	2.9	60
21	Elastin metabolism in rodent lung. Biochimica Et Biophysica Acta - General Subjects, 1981, 672, 303-306.	2.4	59
22	Egg shell membrane protein: A nonelastin desmosine/ isodesmosine-containing protein. Archives of Biochemistry and Biophysics, 1981, 207, 353-359.	3.0	47
23	Modulation of Lysyl Oxidase by Dietary Copper in Rats. Journal of Nutrition, 1996, 126, 51-60.	2.9	46
24	Isolation and Properties of Soluble Elastin from Copper-deficient Chicks. Journal of Nutrition, 1972, 102, 563-570.	2.9	45
25	Intestinal Absorption and Tissue Distribution of [14C]Pyrroloquinoline Quinone in Mice. Experimental Biology and Medicine, 1991, 197, 27-31.	2.4	43
26	Incorporation of copper into lysyl oxidase. Biochemical Journal, 1997, 327, 283-289.	3.7	42
27	Pyrroloquinoline quinone nutritional status alters lysine metabolism and modulates mitochondrial DNA content in the mouse and rat. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1741-1748.	2.4	41
28	Physiologic Importance of Pyrroloquinoline Quinone. Experimental Biology and Medicine, 1991, 197, 19-26.	2.4	39
29	Properties of chick tropoelastin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1973, 317, 193-201.	1.7	38
30	Lysyl Oxidase and P-ATPase-7A Expression during Embryonic Development in the Rat. Archives of Biochemistry and Biophysics, 2000, 379, 71-77.	3.0	38
31	Maternal zinc deficiency, but not copper deficiency or diabetes, results in increased embryonic cell death in the rat: Implications for mechanisms underlying abnormal development. Teratology, 1995, 51, 85-93.	1.6	35
32	Rat embryos cultured under copper-deficient conditions develop abnormally and are characterized by an impaired oxidant defense system. , 1998, 57, 310-320.		35
33	Effect of vitamin B-6 (pyridoxine) deficiency on lung elastin cross-linking in perinatal and weanling rat pups. Biochemical Journal, 1985, 229, 153-160.	3.7	34
34	Cofactors in and as posttranslational protein modifications. FASEB Journal, 1988, 2, 2252-2261.	0.5	33
35	Calcium Binding to Elastin. Advances in Experimental Medicine and Biology, 1974, 48, 185-209.	1.6	32
36	Morphological and biochemical features of elastase-induced emphysema in strain AJ mice. Toxicology and Applied Pharmacology, 1983, 68, 451-461.	2.8	30

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37	Elastin synthesis during perinatal lung development in the rat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1983, 761, 17-22.	2.4	30
38	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.	2.9	30
39	Quantitative comparison of intracellular concentration and volume of Clara cell 10 KD protein in rat bronchi and bronchioles based on laser scanning confocal microscopy.. <i>Journal of Histochemistry and Cytochemistry</i> , 1993, 41, 1171-1183.	2.5	30
40	Chick tropoelastin isolation and partial chemical characterization. <i>Biochemical and Biophysical Research Communications</i> , 1975, 66, 287-292.	2.1	29
41	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.	2.2	28
42	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.	2.1	27
43	Elastin Metabolism During Perinatal Lung Development in the Copper-Deficient Rat. <i>Experimental Lung Research</i> , 1985, 8, 227-241.	1.2	27
44	The effects of copper on collagen cross-linking. <i>Biochemical and Biophysical Research Communications</i> , 1969, 34, 28-33.	2.1	23
45	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
46	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.	2.1	23
47	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.	2.9	22
48	Effect of maternal diabetes and dietary copper on fetal development in rats. <i>Reproductive Toxicology</i> , 1993, 7, 589-598.	2.9	21
49	Role of plasma and serum proteases in the degradation of elastin. <i>Archives of Biochemistry and Biophysics</i> , 1986, 244, 161-168.	3.0	18
50	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.	2.9	17
51	Additional evidence for a proform to tropoelastin from chick aorta. <i>Biochemical Journal</i> , 1979, 177, 559-567.	3.7	17
52	Elastin turnover in murine lung after repeated ozone exposure. <i>Toxicology and Applied Pharmacology</i> , 1981, 58, 203-210.	2.8	17
53	Ascorbic acid turnover in the mouse following acute ozone exposure. <i>Toxicology</i> , 1983, 27, 301-313.	4.2	16
54	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.	1.6	16

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55	Chemical modifications of proteins in vivo: selected examples important to cellular regulation. Journal of Nutrition, 1993, 123, 977-90.	2.9	16
56	Hypothetical calculations of ascorbic acid synthesis based on estimates in vitro. American Journal of Clinical Nutrition, 1980, 33, 961-964.	4.7	15
57	Copper deficiency alters isomyosin types and levels of laminin, fibronectin and cytochrome c oxidase subunits from rat hearts. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1995, 111, 61-67.	1.6	15
58	Arterial elastin synthesis in the young chick. Nucleic Acids and Protein Synthesis, 1976, 442, 432-436.	1.7	13
59	Superoxide dismutase activity in lung from copper- and manganese-deficient mice exposed to ozone. Toxicology Letters, 1988, 42, 149-157.	0.8	13
60	Activation of Chick Tendon Lysyl Oxidase in Response to Dietary Copper. Journal of Nutrition, 1999, 129, 2143-2146.	2.9	13
61	VITAMIN A DEFICIENCY AND ABNORMAL METABOLISM OF IRON. Annals of the New York Academy of Sciences, 1980, 355, 58-61.	3.8	11
62	Dietary Cadmium, Zinc and Copper: Effects on Chick Lung Morphology and Elastin Cross-linking. Journal of Nutrition, 1982, 112, 1344-1352.	2.9	11
63	Ozone exposure, food restriction and protein deficiency: Changes in collagen and elastin in rodent lung. Toxicology Letters, 1984, 23, 43-49.	0.8	11
64	Tropoelastin production and tropoelastin messenger RNA activity. Relationship to copper and elastin cross-linking in chick aorta. Biochemical Journal, 1986, 237, 17-23.	3.7	11
65	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.	0.8	11
66	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
67	[36] Isolation of soluble elastin from copper-deficient chick aorta. Methods in Enzymology, 1982, 82 Pt A, 650-657.	1.0	10
68	Does the intestinal microflora synthesize pyrroloquinoline quinone?. BioFactors, 1991, 3, 53-9.	5.4	10
69	Viscoelastic properties of copper deficient chick bone. Journal of Biomechanics, 1979, 12, 197-203.	2.1	9
70	Modification of arterial elastin in vivo. BBA - Proteins and Proteomics, 1983, 743, 338-342.	2.1	9
71	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.. American Journal of Respiratory Cell and Molecular Biology, 1994, 10, 259-270.	2.9	9
72	Inhibition of elastolysis by proteinase inhibitors from chick plasma and aorta. Biochimica Et Biophysica Acta - General Subjects, 1978, 539, 267-275.	2.4	8

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73	Effect of a metallothionein antisense oligonucleotide on embryo development. Reproductive Toxicology, 1995, 9, 123-130.	2.9	8
74	Partial characterization of a tropoelastin precursor isolated from chick aorta. Biochemistry, 1979, 18, 3854-3859.	2.5	7
75	Lung collagen and elastin after ozone exposure in vitamin B-6-deficient rats. Toxicology Letters, 1986, 30, 55-61.	0.8	6
76	Synthesis of [14C]pyrroloquinoline quinone (PQQ) in E. coli using genes for PQQ synthesis from K. pneumoniae. Biochimica Et Biophysica Acta - General Subjects, 2000, 1524, 247-252.	2.4	6
77	Arterial Elastin Synthesis in the Growing Chick. Advances in Experimental Medicine and Biology, 1977, 79, 461-475.	1.6	6
78	Valine incorporation into elastin-rich fractions from chick aorta. Biochimica Et Biophysica Acta - General Subjects, 1972, 279, 213-216.	2.4	5
79	Elastin degradation in the aorta of Watanabe hereditary hyperlipidemic rabbits. Mechanisms of Ageing and Development, 1994, 74, 117-120.	4.6	5
80	New perspectives on function of vitamins. Nutrition, 1994, 10, 507-13.	2.4	4
81	The effect of alloxan diabetes on skin collagen metabolism. Experientia, 1972, 28, 508-509.	1.2	3
82	Interactions of ascorbic acid supplementation and bleomycin instillation on murine lung connective tissue metabolism. Drug-nutrient Interactions, 1983, 2, 105-15.	0.1	1