

# Peter F Nixon

## List of Publications by Year in descending order

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67  
papers

2,018  
citations

218677

26  
h-index

254184

43  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of substrate decomposition on the spectrophotometric assay of dihydrofolate reductase. Analytical Biochemistry, 1967, 21, 178-189.	2.4	245
2	Properties and functions of the thiamin diphosphate dependent enzyme transketolase. International Journal of Biochemistry and Cell Biology, 1998, 30, 1297-1318.	2.8	218
3	Effective Absorption and Utilization of Oral Formyltetrahydrofolate in Man. New England Journal of Medicine, 1972, 286, 175-179.	27.0	95
4	Transport characteristics of folates in cerebrospinal fluid; a study utilizing doubly labeled 5-methyltetrahydrofolate and 5-formyltetrahydrofolate. Journal of Clinical Investigation, 1971, 50, 1301-1308.	8.2	94
5	An erythrocyte transketolase isoenzyme pattern associated with the Wernicke-Korsakoff syndrome. European Journal of Clinical Investigation, 1984, 14, 278-281.	3.4	74
6	Tetrahydrofolates Are Greatly Stabilized by Binding to Bovine Milk Folate-Binding Protein. Journal of Nutrition, 2002, 132, 2690-2694.	2.9	55
7	Molecular Evolutionary Analysis of the Thiamine-Diphosphate-Dependent Enzyme, Transketolase. Journal of Molecular Evolution, 1997, 44, 552-572.	1.8	48
8	The cobamide-dependent ribonucleoside triphosphate reductase of lactobacilli. Biochemical and Biophysical Research Communications, 1965, 20, 439-445.	2.1	46
9	The Role of His113 and His114 in Pyruvate Decarboxylase from Zymomonas Mobilis. FEBS Journal, 1997, 248, 63-71.	0.2	46
10	Measurement of Michaelis constant for human erythrocyte transketolase and thiamin diphosphate. Analytical Biochemistry, 1987, 160, 78-87.	2.4	45
11	Variants of transketolase from human erythrocytes. Clinica Chimica Acta, 1983, 130, 349-356.	1.1	44
12	Interrelationships of vitamin B12 and folate in man. American Journal of Medicine, 1970, 48, 555-561.	1.5	43
13	The Turnover of Folate Coenzymes in Murine Lymphoma Cells. Journal of Biological Chemistry, 1973, 248, 5932-5936.	3.4	42
14	Effect of chronic alcohol ingestion on hepatic folate distribution in the rat. Biochemical Pharmacology, 1994, 47, 1561-1566.	4.4	40
15	The role of residues glutamate-50 and phenylalanine-496 in Zymomonas mobilis pyruvate decarboxylase. Biochemical Journal, 1996, 315, 745-751.	3.7	40
16	Enzymic preparations of radiolabeled (+)-l-5-methyltetrahydrofolate and (+)-l-5-formyltetrahydrofolate. Analytical Biochemistry, 1971, 43, 162-172.	2.4	38
17	Progression of neurological disease in thiamin-deficient rats is enhanced by ethanol. Alcohol, 1990, 7, 493-501.	1.7	35
18	Site-directed mutagenesis of the ionizable groups in the active site of Zymomonas mobilis pyruvate decarboxylase. FEBS Journal, 2001, 268, 3558-3565.	0.2	33

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19	High control coefficient of transketolase in the nonoxidative pentose phosphate pathway of human erythrocytes: NMR, antibody, and computer simulation studies. <i>Biochemistry</i> , 1992, 31, 12792-12798.	2.5	32
20	Aspartate-27 and glutamate-473 are involved in catalysis by <i>Zymomonas mobilis</i> pyruvate decarboxylase. <i>Biochemical Journal</i> , 1999, 339, 255-260.	3.7	31
21	Impaired utilization of serum folate in pernicious anemia. <i>Journal of Clinical Investigation</i> , 1972, 51, 1431-1439.	8.2	31
22	Intestinal folate absorption. <i>Journal of Clinical Investigation</i> , 1971, 50, 1910-1916.	8.2	28
23	Modulation of Pteroylpolyglutamate Concentration and Length in Response to Altered Folate Nutrition in a Comprehensive Range of Rat Tissues. <i>Journal of Nutrition</i> , 1990, 120, 476-484.	2.9	27
24	An inverse relationship of rat liver folate polyglutamate chain length to nutritional folate sufficiency. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1980, 633, 258-268.	2.4	26
25	The Wernicke-Korsakoff syndrome: a reappraisal in Queensland with special reference to prevention. <i>Medical Journal of Australia</i> , 1987, 147, 561-565.	1.7	26
26	Glucose loading precipitates acute encephalopathy in thiamin-deficient rats. <i>Metabolic Brain Disease</i> , 1999, 14, 1-20.	2.9	26
27	Thiamin nutrition and catalysis-induced instability of thiamin diphosphate. <i>British Journal of Nutrition</i> , 2006, 96, 636-8.	2.3	26
28	Changes in the hippocampus induced by glucose in thiamin deficient rats detected by MRI. <i>Brain Research</i> , 1998, 791, 347-351.	2.2	23
29	Identification of the catalytic glutamate in the E1 component of human pyruvate dehydrogenase. <i>FEBS Letters</i> , 1998, 437, 273-277.	2.8	23
30	Folates of rat tissue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1979, 585, 128-133.	2.4	22
31	Nucleotide and predicted amino acid sequence of a cDNA clone encoding part of human transketolase. <i>Biochemical and Biophysical Research Communications</i> , 1992, 183, 1159-1166.	2.1	22
32	MRI demonstration of impairment of the blood-CSF barrier by glucose administration to the thiamin-deficient rat brain. <i>Magnetic Resonance Imaging</i> , 1995, 13, 555-561.	1.8	22
33	The relationship between erythrocyte transketolase activity and the $\alpha$ -TPP effect <sup>TM</sup> in Wernicke's encephalopathy and other thiamine deficiency states. <i>Clinica Chimica Acta</i> , 1990, 192, 89-98.	1.1	21
34	Application of high field localised <i>in vivo</i> <sup>1</sup> H MRS to study biochemical changes in the thiamin deficient rat brain under glucose load. <i>NMR in Biomedicine</i> , 1993, 6, 324-328.	2.8	21
35	Survival After Unexpected High Serum Methotrexate Concentrations in a Patient with Osteogenic Sarcoma. <i>Drug Safety</i> , 1990, 5, 447-454.	3.2	19
36	Effects of Deletions at the Carboxyl Terminus of <i>Zymomonas mobilis</i> Pyruvate Decarboxylase on the Kinetic Properties and Substrate Specificity $\alpha$ . <i>Biochemistry</i> , 2000, 39, 9430-9437.	2.5	19

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37	KINETIC STUDIES OF THE REACTION MECHANISM OF DIHYDROFOLATE REDUCTASE. <i>Annals of the New York Academy of Sciences</i> , 1971, 186, 119-130.	3.8	18
38	Mutagenesis at Asp27 of pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>FEBS Journal</i> , 2000, 267, 6493-6500.	0.2	18
39	Glucose induced IEG expression in the thiamin-deficient rat brain11Published on the World Wide Web 3 January 2001.. <i>Brain Research</i> , 2001, 892, 218-227.	2.2	18
40	Choroid Plexus Dysfunction: The Initial Event in the Pathogenesis of Wernicke's Encephalopathy and Ethanol Intoxication. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1513-1523.	2.4	18
41	[179] Separation and identification of folate coenzymes on DEAE-sephadex. <i>Methods in Enzymology</i> , 1971, 18, 661-663.	1.0	17
42	Inhibition of transketolase and pyruvate decarboxylase by omeprazole. <i>Biochemical Pharmacology</i> , 1992, 44, 177-179.	4.4	17
43	Heterologous expression of human transketolase. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 369-378.	2.8	16
44	Quantitative description of the interaction between folate and the folate-binding protein from cow's milk. <i>Biochemical Journal</i> , 2004, 382, 215-221.	3.7	15
45	Inhibition of peptide chain initiation in <i>Escherichia coli</i> by hydroxylamine. Reaction of hydroxylamine with folate coenzymes. <i>Biochemistry</i> , 1970, 9, 4833-4838.	2.5	14
46	Reconstitution of holotransketolase is by a thiamin-diphosphate-magnesium complex. <i>FEBS Journal</i> , 1993, 218, 261-265.	0.2	14
47	Aspartate-27 and glutamate-473 are involved in catalysis by <i>Zymomonas mobilis</i> pyruvate decarboxylase. <i>Biochemical Journal</i> , 1999, 339, 255.	3.7	14
48	Direct experimental evidence for competitive inhibition of dihydrofolate reductase by methotrexate. <i>Biochemical Pharmacology</i> , 1988, 37, 535-539.	4.4	13
49	Glutamate Export at the Choroid Plexus in Health, Thiamin Deficiency, and Ethanol Intoxication: Review and Hypothesis. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1339-1349.	2.4	12
50	DISCUSSION PAPER: KINETIC INVESTIGATION OF THE REACTION MECHANISM OF DIHYDROFOLATE REDUCTASE FROM L1210 CELLS. <i>Annals of the New York Academy of Sciences</i> , 1971, 186, 131-142.	3.8	11
51	THE URINARY MELANOGEN CYSTEINYLDOPA IN MELANOMA AND IN SUNTANNING: AUSTRALIAN EXPERIENCE. <i>ANZ Journal of Surgery</i> , 1978, 48, 17-21.	0.7	10
52	Chromosomal location of the human transketolase gene. <i>Cytogenetic and Genome Research</i> , 1992, 61, 274-275.	1.1	9
53	Dietary Interactions Influence the Effects of Bovine Folate-Binding Protein on the Bioavailability of Tetrahydrofolates in Rats. <i>Journal of Nutrition</i> , 2003, 133, 489-495.	2.9	9
54	Thermodynamic characterization of the interactions of methotrexate with dihydrofolate reductase by quantitative affinity chromatography. <i>Biochemical Pharmacology</i> , 1988, 37, 541-545.	4.4	8

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55	Effects of acetaldehyde upon catalysis by human erythrocyte transketolase. <i>Biochemical Pharmacology</i> , 1988, 37, 2100-2101.	4.4	8
56	[74] Enzymic preparations of radiolabeled +-l-5-methyltetrahydrofolate and +-l-formyltetrahydrofolate. <i>Methods in Enzymology</i> , 1980, 66, 547-553.	1.0	5
57	Biochemical Aspects of the Pathogenesis of the Wernickeâ€Korsakoff Syndrome. <i>Australian Drug and Alcohol Review</i> , 1988, 7, 75-77.	0.1	5
58	Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion. <i>Journal of Chromatography A</i> , 1992, 609, 83-87.	3.7	5
59	Stimulation of erythrocyte transketolase by added thiamin diphosphate is pH dependent. <i>Clinica Chimica Acta</i> , 1984, 137, 81-86.	1.1	4
60	DISCUSSION PAPER: KINETIC INVESTIGATION OF THE REACTION MECHANISM OF DIHYDROFOLATE REDUCTASE FROM L1210 CELLS. <i>Annals of the New York Academy of Sciences</i> , 1971, 186, 131-142.	3.8	3
61	Interactions with hemoglobin: A source of error in measurements of transketolase activity in hemolysates. <i>Clinica Chimica Acta</i> , 1989, 180, 265-275.	1.1	3
62	In thiamine deficiency, activation of erythrocyte transketolase by thiamine in vivo exceeds activation by cofactor in vitro. <i>Clinica Chimica Acta</i> , 1991, 202, 39-45.	1.1	3
63	Congenital Lactic Acidosis: Evaluation of the Properties of the A199T Natural Variant of Human Pyruvate Dehydrogenase E1 $\alpha$ by In Vitro Mutation. <i>Molecular Genetics and Metabolism</i> , 2001, 72, 269-272.	1.1	3
64	The Stability of Thiamine and Thiamine Tetrahydrofurfuryl Disulfide Added to Table Wines.. <i>Journal of Nutritional Science and Vitaminology</i> , 1991, 37, 201-206.	0.6	2
65	Clinical pharmacology in Australia. <i>Clinical Pharmacology and Therapeutics</i> , 1974, 16, 545-553.	4.7	0
66	Reply to the Letter of Tamura et al.. <i>Journal of Nutrition</i> , 1990, 120, 1427-1428.	2.9	0
67	Interactions of Methotrexate, Trimetrexate and Piritrexim with Human and <i>L. casei</i> Dihydrofolate Reductases â€” Steady State Inhibition Constants and Dissociation Rates. <i>Pteridines</i> , 1991, 3, 123-124.	0.5	0