

# David Fraser

## List of Publications by Citations

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95  
papers

5,427  
citations

33  
h-index

73  
g-index

99  
ext. papers

5,869  
ext. citations

7.5  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
95	Unique biosynthesis by kidney of a biological active vitamin D metabolite. <i>Nature</i> , <b>1970</b> , 228, 764-6	50.4	1083
94	Identification of 1,25-dihydroxycholecalciferol, a new kidney hormone controlling calcium metabolism. <i>Nature</i> , <b>1971</b> , 230, 228-30	50.4	408
93	Regulation of 25-hydroxycholecalciferol-1-hydroxylase activity in kidney by parathyroid hormone. <i>Nature: New Biology</i> , <b>1973</b> , 241, 163-6		354
92	Regulation of the metabolism of vitamin D. <i>Physiological Reviews</i> , <b>1980</b> , 60, 551-613	47.9	293
91	A new mechanism for induced vitamin D deficiency in calcium deprivation. <i>Nature</i> , <b>1987</b> , 325, 62-5	50.4	279
90	School-milk intervention trial enhances growth and bone mineral accretion in Chinese girls aged 10-12 years in Beijing. <i>British Journal of Nutrition</i> , <b>2004</b> , 92, 159-68	3.6	188
89	Low vitamin D status is associated with physical inactivity, obesity and low vitamin D intake in a large US sample of healthy middle-aged men and women. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2010</b> , 121, 462-6	5.1	159
88	Vitamin D deficiency and associated factors in adolescent girls in Beijing. <i>American Journal of Clinical Nutrition</i> , <b>2001</b> , 74, 494-500	7	152
87	Vitamin D. <i>Lancet, The</i> , <b>1995</b> , 345, 104-7	40	148
86	The vitamin D receptor (VDR) is expressed in skeletal muscle of male mice and modulates 25-hydroxyvitamin D (25OHD) uptake in myofibers. <i>Endocrinology</i> , <b>2014</b> , 155, 3227-37	4.8	131
85	Low vitamin D status has an adverse influence on bone mass, bone turnover, and muscle strength in Chinese adolescent girls. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 1002-7	4.1	114
84	Metabolic inactivation of vitamin D is enhanced in primary hyperparathyroidism. <i>Clinical Science</i> , <b>1987</b> , 73, 659-64	6.5	112
83	Relationship between vitamin D status, body composition and physical exercise of adolescent girls in Beijing. <i>Osteoporosis International</i> , <b>2009</b> , 20, 417-25	5.3	90
82	UK Food Standards Agency Workshop Report: an investigation of the relative contributions of diet and sunlight to vitamin D status. <i>British Journal of Nutrition</i> , <b>2010</b> , 104, 603-11	3.6	87
81	Evidence for a specific uptake and retention mechanism for 25-hydroxyvitamin D (25OHD) in skeletal muscle cells. <i>Endocrinology</i> , <b>2013</b> , 154, 3022-30	4.8	79
80	Vitamin D-deficiency in Asia. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2004</b> , 89-90, 491-5	5.1	72
79	The physiological economy of vitamin D. <i>Lancet, The</i> , <b>1983</b> , 1, 969-72	40	72

78	Vitamin D supply to the rat fetus and neonate. <i>Journal of Clinical Investigation</i> , <b>1988</b> , 81, 1768-73	15.9	71
77	Effects of school milk intervention on cortical bone accretion and indicators relevant to bone metabolism in Chinese girls aged 10-12 y in Beijing. <i>American Journal of Clinical Nutrition</i> , <b>2005</b> , 81, 1168-75	7.5	64
76	Changes with malnutrition in the concentration of plasma vitamin D binding protein in growing rats. <i>British Journal of Nutrition</i> , <b>2002</b> , 88, 133-139	3.6	63
75	Enterohepatic circulation of vitamin D: a reappraisal of the hypothesis. <i>Lancet, The</i> , <b>1984</b> , 1, 1376-9	4.0	63
74	Growth, bone mass, and vitamin D status of Chinese adolescent girls 3 y after withdrawal of milk supplementation. <i>American Journal of Clinical Nutrition</i> , <b>2006</b> , 83, 714-21	7	62
73	Breast-milk calcium concentrations during prolonged lactation in British and rural Gambian mothers. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>1990</b> , 79, 507-12	3.1	62
72	Bone mineral content of Gambian and British children aged 0-36 months. <i>Bone and Mineral</i> , <b>1990</b> , 10, 211-24		60
71	Vitamin D plasma binding protein. Turnover and fate in the rabbit. <i>Journal of Clinical Investigation</i> , <b>1981</b> , 67, 1550-60	15.9	58
70	Milk consumption and bone mineral content in Chinese adolescent girls. <i>Bone</i> , <b>2002</b> , 30, 521-8	4.7	56
69	Bone mineral content of British and rural Gambian women aged 18-80+ years. <i>Bone and Mineral</i> , <b>1991</b> , 12, 201-14		55
68	Vitamin D in the avian egg. Its molecular identity and mechanism of incorporation into yolk. <i>Biochemical Journal</i> , <b>1976</b> , 160, 671-82	3.8	55
67	Effects of diet and exercise on plasma vitamin D (25(OH)D) levels in Vietnamese immigrant elderly in Sydney, Australia. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2007</b> , 103, 786-92	5.1	54
66	Uptake of 25-hydroxyvitamin D by muscle and fat cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2014</b> , 144 Pt A, 232-6	5.1	42
65	Influence of body composition, muscle strength, diet and physical activity on total body and forearm bone mass in Chinese adolescent girls. <i>British Journal of Nutrition</i> , <b>2007</b> , 98, 1281-7	3.6	41
64	Culture and sun exposure in immigrant East Asian women living in Australia. <i>Women and Health</i> , <b>2013</b> , 53, 504-18	1.7	36
63	The effect of pyridoxine deficiency on lysyl oxidase activity in the chick. <i>Experimental and Molecular Pathology</i> , <b>1978</b> , 28, 301-8	4.4	36
62	In contrast to sheep, goats adapt to dietary calcium restriction by increasing intestinal absorption of calcium. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2012</b> , 163, 396-406	2.6	33
61	Predictors of vitamin D biochemical status in a large sample of middle-aged male smokers in Finland. <i>European Journal of Clinical Nutrition</i> , <b>2010</b> , 64, 280-8	5.2	33

60	Sunlight exposure is just one of the factors which influence vitamin D status. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 302-313	4.2	28
59	Hypertension, pulse, and other cardiovascular risk factors and vitamin D status in Finnish men. <i>American Journal of Hypertension</i> , <b>2013</b> , 26, 951-6	2.3	27
58	Growth and bone mineral accretion during puberty in Chinese girls: a five-year longitudinal study. <i>Journal of Bone and Mineral Research</i> , <b>2008</b> , 23, 167-72	6.3	27
57	Influencing the future: interactions of skeleton, energy, protein and calcium during late gestation and early lactation. <i>Animal Production Science</i> , <b>2014</b> , 54, 1177	1.4	26
56	Diabetes prevalence is associated with serum 25-hydroxyvitamin D and 1,25-dihydroxyvitamin D in US middle-aged Caucasian men and women: a cross-sectional analysis within the Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial. <i>British Journal of Nutrition</i> , <b>2011</b> , 106, 339-44	3.6	26
55	The influence of latitude on the concentration of vitamin D <sub>3</sub> and 25-hydroxy-vitamin D <sub>3</sub> in Australian red meat. <i>Food Chemistry</i> , <b>2013</b> , 140, 432-5	8.5	25
54	The effect of parathyroid hormone on the uptake and retention of 25-hydroxyvitamin D in skeletal muscle cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2017</b> , 173, 173-179	5.1	23
53	The origin and metabolism of vitamin D in rainbow trout. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2015</b> , 145, 58-64	5.1	22
52	Bone mass in Chinese premenarcheal girls: the roles of body composition, calcium intake and physical activity. <i>British Journal of Nutrition</i> , <b>2004</b> , 92, 985-93	3.6	22
51	Effects of school-milk intervention on growth and bone mineral accretion in Chinese girls aged 10-12 years: accounting for cluster randomisation. <i>British Journal of Nutrition</i> , <b>2005</b> , 94, 1038-9	3.6	22
50	Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. <i>British Journal of Nutrition</i> , <b>1996</b> , 75, 81-95	3.6	22
49	Vitamin D status is associated with sun exposure, vitamin D and calcium intake, acculturation and attitudes in immigrant East Asian women living in Sydney. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2013</b> , 136, 214-7	5.1	20
48	The association between dietary protein intake and bone mass accretion in pubertal girls with low calcium intakes. <i>British Journal of Nutrition</i> , <b>2010</b> , 103, 714-23	3.6	20
47	The requirement for natural sunlight to prevent vitamin D deficiency in iguanian lizards. <i>Journal of Zoo and Wildlife Medicine</i> , <b>2001</b> , 32, 342-8	0.9	20
46	Investigations on vitamin D esters synthesized rats. Detection and identification. <i>Biochemical Journal</i> , <b>1968</b> , 106, 485-90		20
45	New data for vitamin D in Australian foods of animal origin: impact on estimates of national adult vitamin D intakes in 1995 and 2011-13. <i>Asia Pacific Journal of Clinical Nutrition</i> , <b>2015</b> , 24, 464-71	1	20
44	1,25-Dihydroxycholecalciferol (calcitriol) modifies uptake and release of 25-hydroxycholecalciferol in skeletal muscle cells in culture. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2018</b> , 177, 109-115	5.1	18
43	The Role of Skeletal Muscle in Maintaining Vitamin D Status in Winter. <i>Current Developments in Nutrition</i> , <b>2019</b> , 3, nzz087	0.4	17

42	Mitochondrial Ca <sup>2+</sup> transport in lean and genetically obese (ob/ob) mice. <i>Biochemical Journal</i> , <b>1983</b> , 214, 163-70	3.8	15
41	Investigations on vitamin D esters synthesized in rats. Turnover and sites of synthesis. <i>Biochemical Journal</i> , <b>1968</b> , 106, 491-6		14
40	Calcium transport in bovine rumen epithelium as affected by luminal Ca concentrations and Ca sources. <i>Physiological Reports</i> , <b>2015</b> , 3, e12615	2.6	13
39	Seasonal vitamin D status of Greyhounds in Sydney. <i>Australian Veterinary Journal</i> , <b>1999</b> , 77, 35-8	1.2	13
38	Assessment of intestinal permeability in the experimental rat with [3H]cellobiotol and [14C]mannitol. <i>Clinical Science</i> , <b>1982</b> , 63, 311-6	6.5	13
37	Effect of dietary potassium supplementation on the calcium absorption capacity in the rumen and abomasum and fractional excretion of urinary minerals in sheep. <i>Animal Production Science</i> , <b>2015</b> , 55, 508	1.4	11
36	Advances in the knowledge of the metabolism of vitamin D. <i>Proceedings of the Nutrition Society</i> , <b>1975</b> , 34, 139-43	2.9	11
35	Enzyme studies on the esterification of vitamin D in rat tissues. <i>Biochemical Journal</i> , <b>1968</b> , 109, 457-67		10
34	In vivo measurement of strontium absorption from the rumen of dairy cows as an index of calcium absorption capacity. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 5699-5705	4	8
33	Differences in peripartal plasma parameters related to calcium homeostasis of dairy sheep and goats in comparison with cows. <i>Journal of Dairy Research</i> , <b>2014</b> , 81, 325-32	1.6	8
32	Exploration of possible mechanisms linking vitamin D status and dietary calcium to prostate cancer. <i>British Journal of Nutrition</i> , <b>2007</b> , 97, 596-7	3.6	8
31	The metabolic origin of trigonelline in the rat. <i>Biochemical Journal</i> , <b>1981</b> , 200, 495-500	3.8	8
30	Is the metabolism of 25-hydroxyvitamin D <sub>3</sub> age-dependent in dairy cows?. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2013</b> , 136, 44-6	5.1	7
29	Vitamin D-dependent non-type 1, non-type 2 rickets in a 3-month-old Cornish Rex kitten. <i>Journal of Feline Medicine and Surgery</i> , <b>2011</b> , 13, 526-31	2.3	7
28	Carryover effects of potassium supplementation on calcium homeostasis in dairy cows at parturition. <i>Journal of Dairy Science</i> , <b>2010</b> , 93, 2119-29	4	7
27	Low body weight and its association with bone health and pubertal maturation in Chinese girls. <i>European Journal of Clinical Nutrition</i> , <b>2003</b> , 57, 693-700	5.2	7
26	Effect of dietary cereals on intestinal permeability in experimental enteropathy in rats. <i>Gut</i> , <b>1983</b> , 24, 825-30	19.2	7
25	Skeletal Muscle and the Maintenance of Vitamin D Status. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	7

24	Associations between bone and energy metabolism in cows fed diets differing in level of dietary cation-anion difference and supplemented with cholecalciferol or calcidiol. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 6581-6601	4	6
23	Vitamin D deficiency and energy metabolism. <i>Endocrinology</i> , <b>2015</b> , 156, 1933-5	4.8	6
22	The Cornell Leadership Program for Veterinary Students. <i>Journal of Veterinary Medical Education</i> , <b>2002</b> , 29, 157-61	1.3	6
21	The metabolism and biological activity of esterified vitamin D in the rat. <i>British Journal of Nutrition</i> , <b>1969</b> , 23, 135-40	3.6	6
20	In vivo measurement of the absorption of strontium in the rumen and small intestine of sheep as an index of calcium absorption capacity. <i>British Journal of Nutrition</i> , <b>2014</b> , 112, 718-24	3.6	5
19	Counseling veterinary students who aspire to careers in science. <i>Journal of the American Veterinary Medical Association</i> , <b>2006</b> , 229, 668-71	1	5
18	An exercise in leadership training for veterinary students aiming for careers in biomedical research. <i>Journal of Veterinary Medical Education</i> , <b>2002</b> , 29, 162-6	1.3	5
17	Conformational similarities of vitamin D and cholesterol as enzyme substrates. <i>Nature</i> , <b>1968</b> , 220, 1031-3	30.4	5
16	Changes with malnutrition in the concentration of plasma vitamin D binding protein in growing rats. <i>British Journal of Nutrition</i> , <b>2002</b> , 88, 133-9	3.6	5
15	Metabolic and production responses to calcidiol treatment in mid-lactation dairy cows. <i>Animal Production Science</i> , <b>2019</b> , 59, 449	1.4	5
14	Vitamin D toxicity related to its physiological and unphysiological supply. <i>Trends in Endocrinology and Metabolism</i> , <b>2021</b> , 32, 929-940	8.8	5
13	Calcium-Regulating Hormones: Vitamin D. <i>ILSI Human Nutrition Reviews</i> , <b>1988</b> , 27-41		4
12	Evolutionary Biology: Mysteries of Vitamin D in Fish <b>2018</b> , 13-27		3
11	Promoting science-based careers through student-directed learning. <i>Journal of Veterinary Medical Education</i> , <b>2006</b> , 33, 294-8	1.3	3
10	Effect of calcium deficiency on vitamin D metabolism. <i>Advances in Experimental Medicine and Biology</i> , <b>1994</b> , 352, 237-41	3.6	3
9	Reprint of "The origin and metabolism of vitamin D in rainbow trout". <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2015</b> , 148, 298-304	5.1	2
8	Vocational choices made by alumni of the Leadership Program for Veterinary Students at Cornell University. <i>Journal of the American Veterinary Medical Association</i> , <b>2016</b> , 249, 759-64	1	2
7	Measurement of niacin metabolites in urine by high pressure liquid chromatography. A simple, sensitive assay of niacin nutritional status. <i>International Journal for Vitamin and Nutrition Research</i> , <b>1981</b> , 51, 139-44	1.7	2

6	Tracking Veterinary Students Who Aspire to Careers in Science. <i>Journal of Veterinary Medical Education</i> , <b>2020</b> , 47, 100-105	1.3	2
5	Acquainting veterinary students with careers in the pharmaceutical industry. <i>Journal of Veterinary Medical Education</i> , <b>2007</b> , 34, 139-42	1.3	1
4	Career paths of alumni of the Cornell Leadership Program for veterinary students. <i>Veterinary Record</i> , <b>2008</b> , 163, 750-6	0.9	1
3	Is it reasonable to ignore vitamin D status for musculoskeletal health?. <i>Faculty Reviews</i> , <b>2020</b> , 9, 19	1.2	0
2	Why did the dinosaurs become extinct? Could cholecalciferol (vitamin D) deficiency be the answer?. <i>Journal of Nutritional Science</i> , <b>2019</b> , 8, e9	2.7	
1	Advances in the Knowledge of the Metabolism of Vitamin D. <i>Clinical Science and Molecular Medicine</i> , <b>1975</b> , 48, 10P-10P		