Glenville Jones

List of Publications by Citations

110 papers	10,045 citations	39 h-index	100 g-index
114 ext. papers	11,330 ext. citations	6.3 avg, IF	6.33 L-index

#	Paper	IF	Citations
110	The 2011 report on dietary reference intakes for calcium and vitamin D from the Institute of Medicine: what clinicians need to know. *Journal of Clinical Endocrinology and Metabolism*, **2011**, 96, 53-8	5.6	2706
109	Current understanding of the molecular actions of vitamin D. *Physiological Reviews*, **1998**, 78, 1193-231	47.9	987
108	Pharmacokinetics of vitamin D toxicity. *American Journal of Clinical Nutrition*, **2008**, 88, 582S-586S	7	564
107	Enzymes involved in the activation and inactivation of vitamin D. *Trends in Biochemical Sciences*, **2004**, 29, 664-73	10.3	461
106	Mutations in CYP24A1 and idiopathic infantile hypercalcemia. *New England Journal of Medicine*, **2011**, 365, 410-21	59.2	448
105	IOM committee members respond to Endocrine Society vitamin D guideline. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, 1146-52	5.6	387
104	25-Hydroxyvitamin D-24-hydroxylase (CYP24A1): its important role in the degradation of vitamin D. *Archives of Biochemistry and Biophysics*, **2012**, 523, 9-18	4.1	316
103	Cytochrome P450-mediated metabolism of vitamin D. *Journal of Lipid Research*, **2014**, 55, 13-31	6.3	264
102	CYP2R1 is a major, but not exclusive, contributor to 25-hydroxyvitamin D production in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15650-5	11.5	201
101	Vitamin D in adult health and disease: a review and guideline statement from Osteoporosis Canada. *Cmaj*, **2010**, 182, E610-8	3.5	161
100	Clinical utility of simultaneous quantitation of 25-hydroxyvitamin D and 24,25-dihydroxyvitamin D by LC-MS/MS involving derivatization with DMEQ-TAD. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, 2567-74	5.6	148
99	Autosomal-Recessive Mutations in SLC34A1 Encoding Sodium-Phosphate Cotransporter 2A Cause Idiopathic Infantile Hypercalcemia. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 604-14	12.7	147
98	Effect of different dosages of oral vitamin D supplementation on vitamin D status in healthy, breastfed infants: a randomized trial. *JAMA - Journal of the American Medical Association*, **2013**, 309, 1785-92	37.4	140
97	Altered pharmacokinetics of 1alpha,25-dihydroxyvitamin D3 and 25-hydroxyvitamin D3 in the blood and tissues of the 25-hydroxyvitamin D-24-hydroxylase (Cyp24a1) null mouse. *Endocrinology*, **2005**, 146, 825-34	4.8	134
96	Promise of vitamin D analogues in the treatment of hyperproliferative conditions. *Molecular Cancer Therapeutics*, **2006**, 5, 797-808	6.1	126
95	Structural analysis of CYP2R1 in complex with vitamin D3. *Journal of Molecular Biology*, **2008**, 380, 95-106	6.5	123
94	Vitamin D Toxicity-A Clinical Perspective. *Frontiers in Endocrinology*, **2018**, 9, 550	5.7	123

93	The effects of chloroquine on serum 1,25-dihydroxyvitamin D and calcium metabolism in sarcoidosis. *New England Journal of Medicine*, **1986**, 315, 727-30	59.2	122
92	Vitamin D assays and the definition of hypovitaminosis D: results from the First International Conference on Controversies in Vitamin D. *British Journal of Clinical Pharmacology*, **2018**, 84, 2194-2207	3.8	120
91	Expanding role for vitamin D in chronic kidney disease: importance of blood 25-OH-D levels and extra-renal 1alpha-hydroxylase in the classical and nonclassical actions of 1alpha,25-dihydroxyvitamin D(3). *Seminars in Dialysis*, **2007**, 20, 316-24	2.5	114
90	Isolation and identification of 1,25-dihydroxyvitamin D2. *Biochemistry*, **1975**, 14, 1250-6	3.2	102
89	Significance of serum 24,25-dihydroxyvitamin D in the assessment of vitamin D status: a double-edged sword?. *Clinical Chemistry*, **2015**, 61, 636-45	5.5	78
88	Extrarenal vitamin D activation and interactions between vitamin D□vitamin D□and vitamin D analogs. *Annual Review of Nutrition*, **2013**, 33, 23-44	9.9	78
87	A lifetime of hypercalcemia and hypercalciuria, finally explained. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, 708-12	5.6	75
86	Increased biological activity of 20-epi-1,25-dihydroxyvitamin D3 is due to reduced catabolism and altered protein binding. *Biochemical Pharmacology*, **1994**, 47, 987-93	6	73
85	Expression and activity of vitamin D-metabolizing cytochrome P450s (CYP1alpha and CYP24) in human nonsmall cell lung carcinomas. *Endocrinology*, **1999**, 140, 3303-10	4.8	71
84	Displacement potency of vitamin D2 analogs in competitive protein-binding assays for 25-hydroxyvitamin D3, 24,25-dihydroxyvitamin D3, and 1,25-dihydroxyvitamin D3. *Journal of Clinical Endocrinology and Metabolism*, **1980**, 50, 773-5	5.6	63
83	CYP24A1 and kidney disease. *Current Opinion in Nephrology and Hypertension*, **2011**, 20, 337-44	3.5	62
82	Side-chain hydroxylation of vitamin D3 and its physiological implications. *Steroids*, **1987**, 49, 29-53	2.8	59
81	Determination of Free 25(OH)D Concentrations and Their Relationships to Total 25(OH)D in Multiple Clinical Populations. *Journal of Clinical Endocrinology and Metabolism*, **2018**, 103, 3278-3288	5.6	55
80	A kidney-specific genetic control module in mice governs endocrine regulation of the cytochrome P450 gene essential for vitamin D activation. *Journal of Biological Chemistry*, **2017**, 292, 17541-17558	5.4	53
79	Single A326G mutation converts human CYP24A1 from 25-OH-D3-24-hydroxylase into -23-hydroxylase, generating 1alpha,25-(OH)2D3-26,23-lactone. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12673-8	11.5	53
78	Controversies in Vitamin D: A Statement From the Third International Conference. *JBMR Plus*, **2020**, 4, e10417	3.9	51
77	Vitamin D in adult health and disease: a review and guideline statement from Osteoporosis Canada (summary). *Cmaj*, **2010**, 182, 1315-9	3.5	51
76	Metabolism of the vitamin D analog EB 1089: identification of in vivo and in vitro liver metabolites and their biological activities. *Biochemical Pharmacology*, **1997**, 53, 1087-97	6	50

75	Metabolism of the vitamin D analog EB1089 by cultured human cells: redirection of hydroxylation site to distal carbons of the side-chain. *Biochemical Pharmacology*, **1997**, 53, 783-93	6	47
74	Isolation and identification of 24-hydroxyvitamin D2 and 24,25-dihydroxyvitamin D2. *Archives of Biochemistry and Biophysics*, **1980**, 202, 450-7	4.1	45
73	The vitamin D analog, KH1060, is rapidly degraded both in vivo and in vitro via several pathways: principal metabolites generated retain significant biological activity. *Endocrinology*, **1997**, 138, 5485-96	4.8	42
72	Vitamin D metabolite profiling using liquid chromatography-tandem mass spectrometry (LC-MS/MS). *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 164, 110-114	5.1	40
71	Vitamin D analogs. *Endocrinology and Metabolism Clinics of North America*, **2010**, 39, 447-72, table of contents	3.5	37
70	Structural motif-based homology modeling of CYP27A1 and site-directed mutational analyses affecting vitamin D hydroxylation. *Biophysical Journal*, **2006**, 90, 3389-409	2.9	36
69	Maternal Hypercalcemia Due to Failure of 1,25-Dihydroxyvitamin-D3 Catabolism in a Patient With CYP24A1 Mutations. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 2832-6	5.6	35
68	Genetic Diseases of Vitamin D Metabolizing Enzymes. *Endocrinology and Metabolism Clinics of North America*, **2017**, 46, 1095-1117	5.5	34
67	Optimal bone fracture repair requires 24R,25-dihydroxyvitamin D3 and its effector molecule FAM57B2. *Journal of Clinical Investigation*, **2018**, 128, 3546-3557	15.9	34
66	Improved Screening Test for Idiopathic Infantile Hypercalcemia Confirms Residual Levels of Serum 24,25-(OH) D in Affected Patients. *Journal of Bone and Mineral Research*, **2017**, 32, 1589-1596	6.3	33
65	Expression and Activity of Vitamin D-Metabolizing Cytochrome P450s (CYP1 and CYP24) in Human Nonsmall Cell Lung Carcinomas		33
64	Contemporary diagnosis and treatment of vitamin D-related disorders. *Journal of Bone and Mineral Research*, **2007**, 22 Suppl 2, V11-5	6.3	32
63	Potent, low-calcemic, selective inhibitors of CYP24 hydroxylase: 24-sulfone analogs of the hormone 1alpha,25-dihydroxyvitamin D3. *Journal of Steroid Biochemistry and Molecular Biology*, **2004**, 89-90, 5-12	5.1	32
62	Methodological issues in assessing plasma 25-hydroxyvitamin D concentration in newborn infants. *Bone*, **2014**, 61, 186-90	4.7	30
61	Bone mass is related to creatinine clearance in normal elderly women. *Journal of Bone and Mineral Research*, **1991**, 6, 1043-50	6.3	30
60	Expression of CYP27A, a gene encoding a vitamin D-25 hydroxylase in human liver and kidney. *Clinical Endocrinology*, **2001**, 54, 107-15	3.4	30
59	Interpreting vitamin D assay results: proceed with caution. *Clinical Journal of the American Society of Nephrology: CJASN*, **2015**, 10, 331-4	6.9	29
58	In vitro metabolism of the vitamin D analog, 22-oxacalcitriol, using cultured osteosarcoma, hepatoma, and keratinocyte cell lines. *Journal of Biological Chemistry*, **1996**, 271, 8700-8	5.4	29

57	Generation of a homology model for the human cytochrome P450, CYP24A1, and the testing of putative substrate binding residues by site-directed mutagenesis and enzyme activity studies. *Archives of Biochemistry and Biophysics*, **2007**, 460, 177-91	4.1	28
56	Metabolism and biomarkers of vitamin D. *Scandinavian Journal of Clinical and Laboratory Investigation, Supplement*, **2012**, 243, 7-13		27
55	A High-Calcium and Phosphate Rescue Diet and VDR-Expressing Transgenes Normalize Serum Vitamin D Metabolite Profiles and Renal Cyp27b1 and Cyp24a1 Expression in VDR Null Mice. *Endocrinology*, **2015**, 156, 4388-97	4.8	24
54	Evidence for the activation of 1alpha-hydroxyvitamin D2 by 25-hydroxyvitamin D-24-hydroxylase: delineation of pathways involving 1alpha,24-dihydroxyvitamin D2 and 1alpha,25-dihydroxyvitamin D2. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 221-34	5	23
53	Hepatic activation and inactivation of clinically-relevant vitamin D analogs and prodrugs. *Anticancer Research*, **2006**, 26, 2589-95	2.3	23
52	The discovery and synthesis of the nutritional factor vitamin D. *International Journal of Paleopathology*, **2018**, 23, 96-99	1.5	21
51	Synthesis and CYP24A1 inhibitory activity of (E)-2-(2-substituted benzylidene)- and 2-(2-substituted benzyl)-6-methoxy-tetralones. *European Journal of Medicinal Chemistry*, **2010**, 45, 4427-34	6.8	21
50	Isolation and identification of seven metabolites of 25-hydroxydihydrotachysterol3 formed in the isolated perfused rat kidney: a model for the study of side-chain metabolism of vitamin D. *Biochemistry*, **1988**, 27, 7070-9	3.2	20
49	Targeted genomic deletions identify diverse enhancer functions and generate a kidney-specific, endocrine-deficient pseudo-null mouse. *Journal of Biological Chemistry*, **2019**, 294, 9518-9535	5.4	19
48	Bioengineering anabolic vitamin D-25-hydroxylase activity into the human vitamin D catabolic enzyme, cytochrome P450 CYP24A1, by a V391L mutation. *Journal of Biological Chemistry*, **2011**, 286, 28729-28737	5.4	18
47	Reduced creatinine clearance in primary osteoporosis in women. *Journal of Bone and Mineral Research*, **1993**, 8, 1045-52	6.3	18
46	Effect of the X-linked Hyp mutation and vitamin D status on induction of renal 25-hydroxyvitamin D3-24-hydroxylase. *Endocrinology*, **1987**, 120, 609-16	4.8	18
45	A chromatin-based mechanism controls differential regulation of the cytochrome P450 gene in renal and non-renal tissues. *Journal of Biological Chemistry*, **2019**, 294, 14467-14481	5.4	17
44	Randomized trial of two doses of vitamin D3 in preterm infants . *PLoS ONE*, **2017**, 12, e0185950	3.7	17
43	Synthesis and CYP24A1 inhibitory activity of N-(2-(1H-imidazol-1-yl)-2-phenylethyl)arylamides. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 4939-46	3.4	17
42	Construction of a P450c27 fusion enzyme: a useful tool for analysis of vitamin D3 25-hydroxylase activity. *Biochemical Journal*, **1996**, 320 (Pt 1), 267-71	3.8	17
41	In vitro metabolism of 19-nor-1alpha, 25-(OH)2D2 in cultured cell lines: inducible synthesis of lipid- and water-soluble metabolites. *Archives of Biochemistry and Biophysics*, **2001**, 387, 297-306	4.1	16
40	Impact of Vitamin D Supplementation on Gross Motor Development of Healthy Term Infants: A Randomized Dose-Response Trial. *Physical and Occupational Therapy in Pediatrics*, **2016**, 36, 330-42	2.1	15

39	Serum 24,25-dihydroxyvitamin D response to native vitamin D and D Supplementation in patients with chronic kidney disease on hemodialysis. *Clinical Nutrition*, **2018**, 37, 1041-1045	5.9	15
38	The Vitamin D Analog, KH1060, Is Rapidly Degraded Both in Vivo and in Vitro via Several Pathways: Principal Metabolites Generated Retain Significant Biological Activity		15
37	Dynamics of Vitamin D Metabolism in Maternal-Fetal Dyads. *Journal of Pediatric Gastroenterology and Nutrition*, **2016**, 62, 486-90	2.8	14
36	Secondary hyperparathyroidism in primary osteoporosis and osteopenia: optimizing calcium and vitamin D intakes to levels recommended by expert panels may not be sufficient for correction. *Clinical Endocrinology*, **2008**, 69, 855-63	3.4	14
35	Vitamin D metabolism in the premature newborn: A randomized trial. *Clinical Nutrition*, **2016**, 35, 835-41	5.9	13
34	Interlaboratory Comparison for the Determination of 24,25-Dihydroxyvitamin D in Human Serum Using Liquid Chromatography with Tandem Mass Spectrometry. *Journal of AOAC INTERNATIONAL*, **2017**, 100, 1308-1317	1.7	13
33	1,25-Dihydroxyvitamin D3 metabolism in a human osteosarcoma cell line and human bone cells. *Journal of Bone and Mineral Research*, **1990**, 5, 597-608	6.3	13
32	Calcioic acid: In vivo detection and quantification of the terminal C24-oxidation product of 25-hydroxyvitamin D and related intermediates in serum of mice treated with 24,25-dihydroxyvitamin D. *Journal of Steroid Biochemistry and Molecular Biology*, **2019**, 188, 23-28	5.1	13
31	Hereditary Hypercalcemia Caused by a Homozygous Pathogenic Variant in the Gene: A Case Report and Review of the Literature. *Case Reports in Endocrinology*, **2019**, 2019, 4982621	1.2	12
30	Metabolism of a 20-methyl substituted series of vitamin D analogs by cultured human cells: apparent reduction of 23-hydroxylation of the side chain by the 20-methyl group. *Biochemical Pharmacology*, **2001**, 61, 893-902	6	12
29	The Activating Enzymes of Vitamin D Metabolism (25- and 1Hydroxylases) **2011**, 23-42		11
28	Vitamin D status in mothers with pre-eclampsia and their infants: a case-control study from Serbia, a country without a vitamin D fortification policy. *Public Health Nutrition*, **2017**, 20, 1825-1835	3.3	10
27	Calcitriol Accelerates Vascular Calcification Irrespective of Vitamin K Status in a Rat Model of Chronic Kidney Disease with Hyperphosphatemia and Secondary Hyperparathyroidism. *Journal of Pharmacology and Experimental Therapeutics*, **2018**, 366, 433-445	4.7	10
26	Use of vitamin D(4) analogs to investigate differences in hepatic and target cell metabolism of vitamins D(2) and D(3). *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2002**, 1583, 151-66	5	8
25	1,25(OH)2D3-dependent regulation of calbindin-D28k mRNA requires ongoing protein synthesis in chick duodenal organ culture. *Journal of Cellular Biochemistry*, **1995**, 58, 315-27	4.7	8
24	Differential diagnosis of vitamin D-related hypercalcemia using serum vitamin D metabolite profiling. *Journal of Bone and Mineral Research*, **2021**, 36, 1340-1350	6.3	8
23	Update on pharmacologically-relevant vitamin D analogues. *British Journal of Clinical Pharmacology*, **2019**, 85, 1095-1102	3.8	8
22	UV and dietary predictors of serum 25-hydroxyvitamin D concentrations among young shift-working nurses and implications for bone density and skin cancer. *Public Health Nutrition*, **2014**, 17, 772-9	3.3	7

21	High-Dose Intramuscular Vitamin D Provides Long-Lasting Moderate Increases in Serum 25-Hydroxvitamin D Levels and Shorter-Term Changes in Plasma Calcium. *Journal of AOAC INTERNATIONAL*, **2017**, 100, 1337-1344	1.7	6
20	Mineral Homeostasis in Murine Fetuses Is Sensitive to Maternal Calcitriol but Not to Absence of Fetal Calcitriol. *Journal of Bone and Mineral Research*, **2019**, 34, 669-680	6.3	6
19	Hypercalcemic States Associated with Abnormalities of Vitamin D Metabolism. *Frontiers of Hormone Research*, **2018**, 89-113	3.5	5
18	Dietary phosphate deprivation increases renal synthesis and decreases renal catabolism of 1,25-dihydroxycholecalciferol in guinea pigs. *Journal of Nutrition*, **1991**, 121, 1635-42	4.1	5
17	Do the Heterozygous Carriers of a CYP24A1 Mutation Display a Different Biochemical Phenotype Than Wild Types?. *Journal of Clinical Endocrinology and Metabolism*, **2021**, 106, 708-717	5.6	5
16	Historical aspects of vitamin D.. *Endocrine Connections*, **2022**,	3.5	5
15	Validation of a routine two-sample iohexol plasma clearance assessment of GFR and an evaluation of common endogenous markers in a rat model of CKD. *Physiological Reports*, **2017**, 5, e13205	2.6	4
14	Vitamin D and Analogues **2008**, 1777-1799		4
13	Vitamin D analogs. *Rheumatic Disease Clinics of North America*, **2012**, 38, 207-32, xi	2.4	3
12	Vitamin D supplementation in pregnancy: A word of caution. Familial hypercalcaemia due to disordered vitamin D metabolism. *Annals of Clinical Biochemistry*, **2020**, 57, 186-191	2.2	3
11	Prevention of post-cardiac surgery vitamin D deficiency in children with congenital heart disease: a pilot feasibility dose evaluation randomized controlled trial. *Pilot and Feasibility Studies*, **2020**, 6, 159	1.9	3
10	Genetic Defects in Vitamin D Metabolism and Action **2016**, 1160-1172.e4		2
9	CYP24A1: Structure, Function, and Physiological Role **2018**, 81-95		2
8	Idiopathic Infantile Hypercalcemia Presenting in Childhood but Diagnosed in Adulthood. *AACE Clinical Case Reports*, **2018**, 4, 256-262	0.7	2
7	PTH suppression by calcitriol does not predict off-target actions in experimental CKD. *Pharmacology Research and Perspectives*, **2020**, 8, e00605	3.1	1
6	The Activating Enzymes of Vitamin D Metabolism (25- and 1Hydroxylases) **2018**, 57-79		1
5	Diagnostic Aspects of Vitamin D: Clinical Utility of Vitamin D Metabolite Profiling.. *JBMR Plus*, **2021**, 5, e10581	3.9	1
4	Overlapping Phenotypes Associated With , , and Mutations: A Cohort Study of Patients With Hypersensitivity to Vitamin D. *Frontiers in Endocrinology*, **2021**, 12, 736240	5.7	1

3	Preclinical safety and efficacy of 24R,25-dihydroxyvitamin D or lactosylceramide treatment to enhance fracture repair. *Journal of Orthopaedic Translation*, **2020**, 23, 77-88	4.2	0
2	Vitamin D Analogs and Their Clinical Uses. *Oxidative Stress and Disease*, **2012**, 65-98		
1	Vitamin D and its analogs **2020**, 1733-1757		