

Peter W Jurutka

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96
papers

6,050
citations

35
h-index

77
g-index

102
ext. papers

6,598
ext. citations

4.6
avg, IF

5.19
L-index

#	Paper	IF	Citations
96	The nuclear vitamin D receptor: biological and molecular regulatory properties revealed. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 325-49	6.3	1036
95	Molecular mechanisms of vitamin D action. <i>Calcified Tissue International</i> , 2013 , 92, 77-98	3.9	464
94	Vitamin D receptor (VDR)-mediated actions of 1,25(OH) ₂ vitamin D—genomic and non-genomic mechanisms. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2011 , 25, 543-59	6.5	403
93	Functionally relevant polymorphisms in the human nuclear vitamin D receptor gene. <i>Molecular and Cellular Endocrinology</i> , 2001 , 177, 145-59	4.4	309
92	The polymorphic N terminus in human vitamin D receptor isoforms influences transcriptional activity by modulating interaction with transcription factor IIB. <i>Molecular Endocrinology</i> , 2000 , 14, 401-20		291
91	Molecular nature of the vitamin D receptor and its role in regulation of gene expression. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2001 , 2, 203-16	10.5	216
90	Vitamin D receptor: molecular signaling and actions of nutritional ligands in disease prevention. <i>Nutrition Reviews</i> , 2008 , 66, S98-112	6.4	211
89	Physical and functional interaction between the vitamin D receptor and hairless corepressor, two proteins required for hair cycling. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38665-74	5.4	171
88	1,25-Dihydroxyvitamin D ₃ /VDR-mediated induction of FGF23 as well as transcriptional control of other bone anabolic and catabolic genes that orchestrate the regulation of phosphate and calcium mineral metabolism. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007 , 103, 381-8	5.1	134
87	The nuclear vitamin D receptor controls the expression of genes encoding factors which feed the "Fountain of Youth" to mediate healthful aging. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 121, 88-97	5.1	128
86	The vitamin D-responsive element in the rat bone Gla protein gene is an imperfect direct repeat that cooperates with other cis-elements in 1,25-dihydroxyvitamin D ₃ - mediated transcriptional activation. <i>Molecular Endocrinology</i> , 1991 , 5, 373-85		128
85	Steroid hormone receptors: evolution, ligands, and molecular basis of biologic function. <i>Journal of Cellular Biochemistry</i> , 1999 , Suppl 32-33, 110-22	4.7	122
84	Vitamin D receptor controls expression of the anti-aging klotho gene in mouse and human renal cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 557-62	3.4	116
83	Liganded VDR induces CYP3A4 in small intestinal and colon cancer cells via DR3 and ER6 vitamin D responsive elements. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 730-8	3.4	110
82	Vitamin D receptor: key roles in bone mineral pathophysiology, molecular mechanism of action, and novel nutritional ligands. <i>Journal of Bone and Mineral Research</i> , 2007 , 22 Suppl 2, V2-10	6.3	108
81	1,25-Dihydroxyvitamin D regulates expression of the tryptophan hydroxylase 2 and leptin genes: implication for behavioral influences of vitamin D. <i>FASEB Journal</i> , 2015 , 29, 4023-35	0.9	103
80	The role of vitamin D in the FGF23, klotho, and phosphate bone-kidney endocrine axis. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2012 , 13, 57-69	10.5	94

79	Curcumin: a novel nutritionally derived ligand of the vitamin D receptor with implications for colon cancer chemoprevention. <i>Journal of Nutritional Biochemistry</i> , 2010 , 21, 1153-61	6.3	89
78	Heterodimeric DNA binding by the vitamin D receptor and retinoid X receptors is enhanced by 1,25-dihydroxyvitamin D3 and inhibited by 9-cis-retinoic acid. Evidence for allosteric receptor interactions. <i>Journal of Biological Chemistry</i> , 1998 , 273, 8483-91	5.4	85
77	Vitamin D receptors from patients with resistance to 1,25- dihydroxyvitamin D3: point mutations confer reduced transactivation in response to ligand and impaired interaction with the retinoid X receptor heterodimeric partner. <i>Molecular Endocrinology</i> , 1996 , 10, 1617-1631		78
76	Vitamin D and Colorectal, Breast, and Prostate Cancers: A Review of the Epidemiological Evidence. <i>Journal of Cancer</i> , 2016 , 7, 232-40	4.5	78
75	Molecular and functional comparison of 1,25-dihydroxyvitamin D(3) and the novel vitamin D receptor ligand, lithocholic acid, in activating transcription of cytochrome P450 3A4. <i>Journal of Cellular Biochemistry</i> , 2005 , 94, 917-43	4.7	71
74	Mutations in the 1,25-dihydroxyvitamin D3 receptor identifying C-terminal amino acids required for transcriptional activation that are functionally dissociated from hormone binding, heterodimeric DNA binding, and interaction with basal transcription factor IIB, in vitro. <i>Journal of Biological Chemistry</i> , 2007 , 282, 14133-8	5.4	66
73	1,25-dihydroxyvitamin D(3) regulation of fibroblast growth factor-23 expression in bone cells: evidence for primary and secondary mechanisms modulated by leptin and interleukin-6. <i>Calcified Tissue International</i> , 2013 , 92, 339-53	3.9	65
72	Novel nuclear localization signal between the two DNA-binding zinc fingers in the human vitamin D receptor. <i>Journal of Cellular Biochemistry</i> , 1998 , 70, 94-109	4.7	65
71	CYP24A1 and CYP27B1 polymorphisms modulate vitamin D metabolism in colon cancer cells. <i>Cancer Research</i> , 2013 , 73, 2563-73	10.1	58
70	Distinct retinoid X receptor activation function-2 residues mediate transactivation in homodimeric and vitamin D receptor heterodimeric contexts. <i>Journal of Molecular Endocrinology</i> , 2001 , 27, 211-27	4.5	57
69	Vitamin D receptor ligands, adenomatous polyposis coli, and the vitamin D receptor FokI polymorphism collectively modulate beta-catenin activity in colon cancer cells. <i>Molecular Carcinogenesis</i> , 2010 , 49, 337-52	5	54
68	Modeling, synthesis and biological evaluation of potential retinoid X receptor (RXR) selective agonists: novel analogues of 4-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic acid (bexarotene). <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 5050-67	8.3	44
67	Genetic polymorphisms in vitamin D receptor VDR/RXRA influence the likelihood of colon adenoma recurrence. <i>Cancer Research</i> , 2010 , 70, 1496-504	10.1	42
66	Optimal vitamin D spurs serotonin: 1,25-dihydroxyvitamin D represses serotonin reuptake transport () and degradation () gene expression in cultured rat serotonergic neuronal cell lines. <i>Genes and Nutrition</i> , 2018 , 13, 19	4.3	40
65	Characterization of unique DNA-binding and transcriptional-activation functions in the carboxyl-terminal extension of the zinc finger region in the human vitamin D receptor. <i>Biochemistry</i> , 1999 , 38, 16347-58	3.2	38
64	Concentrations of the vitamin D metabolite 1,25(OH)2D and odds of metabolic syndrome and its components. <i>Metabolism: Clinical and Experimental</i> , 2015 , 64, 447-59	12.7	37
63	The T-box near the zinc fingers of the human vitamin D receptor is required for heterodimeric DNA binding and transactivation. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 215, 1-7	3.4	37
62	1,25-dihydroxyvitamin D3 down-regulation of PHEX gene expression is mediated by apparent repression of a 110 kDa transfactor that binds to a polyadenine element in the promoter. <i>Journal of Biological Chemistry</i> , 2004 , 279, 46406-14	5.4	36

61	Resveratrol potentiates vitamin D and nuclear receptor signaling. <i>Journal of Cellular Biochemistry</i> , 2015 , 116, 1130-43	4-7	35
60	FGF23 gene regulation by 1,25-dihydroxyvitamin D: opposing effects in adipocytes and osteocytes. <i>Journal of Endocrinology</i> , 2015 , 226, 155-66	4-7	34
59	Vitamin D receptor phosphorylation in transfected ROS 17/2.8 cells is localized to the N-terminal region of the hormone-binding domain. <i>Molecular Endocrinology</i> , 1991 , 5, 1137-46		34
58	Isolation of baculovirus-expressed human vitamin D receptor: DNA responsive element interactions and phosphorylation of the purified receptor. <i>Journal of Cellular Biochemistry</i> , 2002 , 85, 435-57	4-7	33
57	Phosphorylation of the human 1,25-dihydroxyvitamin D ₃ receptor by cAMP-dependent protein kinase, in vitro, and in transfected COS-7 cells. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 191, 1089-96	3-4	32
56	The 1,25-dihydroxy-vitamin D ₃ receptor is phosphorylated in response to 1,25-dihydroxy-vitamin D ₃ and 22-oxacalcitriol in rat osteoblasts, and by casein kinase II, in vitro. <i>Biochemistry</i> , 1993 , 32, 8184-92 ^{2,2}		32
55	1,25-Dihydroxyvitamin D and Klotho: A Tale of Two Renal Hormones Coming of Age. <i>Vitamins and Hormones</i> , 2016 , 100, 165-230	2-5	31
54	Suppression of ANP gene transcription by liganded vitamin D receptor: involvement of specific receptor domains. <i>Hypertension</i> , 1998 , 31, 1338-42	8-5	29
53	Polymorphic variation in the GC and CASR genes and associations with vitamin D metabolite concentration and metachronous colorectal neoplasia. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012 , 21, 368-75	4	27
52	Association between polymorphic variation in VDR and RXRA and circulating levels of vitamin D metabolites. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 121, 438-41	5-1	26
51	Examination of the Potential Functional Role of Conserved Cysteine Residues in the Hormone Binding Domain of the Human 1,25-Dihydroxyvitamin D ₃ Receptor. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5143-5149	5-4	26
50	Association between circulating concentrations of 25(OH)D and colorectal adenoma: a pooled analysis. <i>International Journal of Cancer</i> , 2013 , 133, 2980-8	7-5	23
49	CYP24A1 and CYP27B1 Polymorphisms, Concentrations of Vitamin D Metabolites, and Odds of Colorectal Adenoma Recurrence. <i>Nutrition and Cancer</i> , 2015 , 67, 1131-41	2-8	22
48	Vitamin D receptor displays DNA binding and transactivation as a heterodimer with the retinoid X receptor, but not with the thyroid hormone receptor 1999 , 75, 462-480		22
47	SIRT1 enzymatically potentiates 1,25-dihydroxyvitamin D signaling via vitamin D receptor deacetylation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017 , 172, 117-129	5-1	21
46	Retinoid X Receptor Selective Agonists and their Synthetic Methods. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 742-767	3	21
45	Physical activity, sedentary behavior, and vitamin D metabolites. <i>Bone</i> , 2016 , 83, 248-255	4-7	20
44	Purified human vitamin D receptor overexpressed in E. coli and baculovirus systems does not bind 1,25-dihydroxyvitamin D ₃ hormone efficiently unless supplemented with a rat liver nuclear extract. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 197, 478-85	3-4	20

43	Discovery of novel vitamin D receptor interacting proteins that modulate 1,25-dihydroxyvitamin D3 signaling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012 , 132, 147-59	5.1	18
42	Control of late cornified envelope genes relevant to psoriasis risk: upregulation by 1,25-dihydroxyvitamin D3 and plant-derived delphinidin. <i>Archives of Dermatological Research</i> , 2013 , 305, 867-78	3.3	17
41	Modeling, synthesis, and biological evaluation of potential retinoid X receptor (RXR) selective agonists: novel analogues of 4-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic acid (bexarotene) and (E)-3-(3-(1,2,3,4-tetrahydro-1,1,4,4,6-pentamethylnaphthalen-7-yl)-4-hydroxyphenyl)acrylic acid	8.3	17
40	Receptor mediated genomic action of the 1,25(OH)2D3 hormone: expression of the human vitamin D receptor in E. coli. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995 , 53, 583-94	5.1	17
39	Total and Free Circulating Vitamin D and Vitamin D-Binding Protein in Relation to Colorectal Cancer Risk in a Prospective Study of African Americans. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017 , 26, 1242-1247	4	16
38	Nuclear Vitamin D Receptor: Structure-Function, Molecular Control of Gene Transcription, and Novel Bioactions 2005 , 219-261		16
37	Inhibition of ligand induced promoter occupancy in vivo by a dominant negative RXR. <i>Genes To Cells</i> , 1996 , 1, 209-21	2.3	16
36	Graviola (<i>Annona muricata</i>) Exerts Anti-Proliferative, Anti-Clonogenic and Pro-Apoptotic Effects in Human Non-Melanoma Skin Cancer UW-BCC1 and A431 Cells In Vitro: Involvement of Hedgehog Signaling. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
35	Vitamin D: marker or mechanism of action?. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011 , 20, 585-90	4	15
34	Two basic amino acids C-terminal of the proximal box specify functional binding of the vitamin D receptor to its rat osteocalcin deoxyribonucleic acid-responsive element. <i>Endocrinology</i> , 2003 , 144, 5065-80	4.8	15
33	Phosphorylation of human vitamin D receptor serine-182 by PKA suppresses 1,25(OH)2D3-dependent transactivation. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 324, 801-9	3.4	15
32	Associations between circulating 1,25(OH)D concentration and odds of metachronous colorectal adenoma. <i>Cancer Causes and Control</i> , 2014 , 25, 809-17	2.8	14
31	Regulation of late cornified envelope genes relevant to psoriasis risk by plant-derived cyanidin. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 1275-9	3.4	14
30	Gene Expression Profiling and Assessment of Vitamin D and Serotonin Pathway Variations in Patients With Irritable Bowel Syndrome. <i>Journal of Neurogastroenterology and Motility</i> , 2018 , 24, 96-106	4.4	13
29	Associations between vitamin D-binding protein isotypes, circulating 25(OH)D levels, and vitamin D metabolite uptake in colon cancer cells. <i>Cancer Prevention Research</i> , 2014 , 7, 426-34	3.2	12
28	Modeling, Synthesis, and Biological Evaluation of Potential Retinoid X Receptor (RXR)-Selective Agonists: Analogues of 4-[1-(3,5,5,8,8-Pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic Acid (Bexarotene) and 6-(Ethyl(5,5,8,8-tetrahydronaphthalen-2-yl)amino)nicotinic Acid (NET-TMN). <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 8924-8940	8.3	12
27	Vitamin D, calcium, and colorectal neoplasia: new insights on mechanisms of action. <i>Cancer Prevention Research</i> , 2009 , 2, 197-9	3.2	11
26	Vitamin D receptor-mediated control of Soggy, Wise, and Hairless gene expression in keratinocytes. <i>Journal of Endocrinology</i> , 2014 , 220, 165-78	4.7	10

25	Synthesis and biological evaluation of halogenated curcumin analogs as potential nuclear receptor selective agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 693-702	3.4	10
24	Nuclear Vitamin D Receptor: Natural Ligands, Molecular StructureFunction, and Transcriptional Control of Vital Genes 2011 , 137-170		10
23	Testing Novel Pyrimidinyl Rexinoids: A New Paradigm for Evaluating Rexinoids for Cancer Prevention. <i>Cancer Prevention Research</i> , 2019 , 12, 211-224	3.2	8
22	Bioactive Dietary VDR Ligands Regulate Genes Encoding Biomarkers of Skin Repair That Are Associated with Risk for Psoriasis. <i>Nutrients</i> , 2018 , 10,	6.7	8
21	Modeling, synthesis and biological evaluation of potential retinoid X receptor-selective agonists: novel halogenated analogues of 4-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic acid (bexarotene). <i>ChemMedChem</i> , 2012 , 7, 1551-66	3.7	8
20	A novel gene expression analytics-based approach to structure aided design of rexinoids for development as next-generation cancer therapeutics. <i>Steroids</i> , 2018 , 135, 36-49	2.8	7
19	Analysis of differential secondary effects of novel rexinoids: select rexinoid X receptor ligands demonstrate differentiated side effect profiles. <i>Pharmacology Research and Perspectives</i> , 2015 , 3, e00122	3.1	7
18	Sentrin/SUMO specific proteases as novel tissue-selective modulators of vitamin D receptor-mediated signaling. <i>PLoS ONE</i> , 2014 , 9, e89506	3.7	6
17	Presence of a TA haplotype in the APC gene containing the common 1822 polymorphism and colorectal adenoma. <i>Cancer Research</i> , 2008 , 68, 6006-13	10.1	6
16	Greater Adherence to Cancer Prevention Guidelines Is Associated with Higher Circulating Concentrations of Vitamin D Metabolites in a Cross-Sectional Analysis of Pooled Participants from 2 Chemoprevention Trials. <i>Journal of Nutrition</i> , 2017 , 147, 421-429	4.1	5
15	Biochemical evidence for a 170-kilodalton, AF-2-dependent vitamin D receptor/retinoid X receptor coactivator that is highly expressed in osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 267, 813-9	3.4	5
14	Triterpenes from <i>Poria cocos</i> are revealed as potential retinoid X receptor selective agonists based on cell and in silico evidence. <i>Chemical Biology and Drug Design</i> , 2020 , 95, 493-502	2.9	5
13	Vitamin D Receptor Mediates a Myriad of Biological Actions Dependent on Its 1,25-Dihydroxyvitamin D Ligand: Distinct Regulatory Themes Revealed by Induction of Klotho and Fibroblast Growth Factor-23. <i>JBMR Plus</i> , 2021 , 5, e10432	3.9	4
12	Association between Circulating Vitamin D Metabolites and Fecal Bile Acid Concentrations. <i>Cancer Prevention Research</i> , 2016 , 9, 589-97	3.2	3
11	Rexinoids Modulate Effector T Cell Expression of Mucosal Homing Markers CCR9 and $\alpha 4 \beta 7$ Integrin and Direct Their Migration .. <i>Frontiers in Immunology</i> , 2022 , 13, 746484	8.4	2
10	Assessment of Novel Vitamin D Receptor Antagonists that Mediate Suppression of Vitamin D Signaling. <i>FASEB Journal</i> , 2018 , 32, 1b98	0.9	2
9	Pomegranate derivative urolithin A enhances vitamin D receptor signaling to amplify serotonin-related gene induction by 1,25-dihydroxyvitamin D. <i>Biochemistry and Biophysics Reports</i> , 2020 , 24, 100825	2.2	2
8	Evaluating Novel RXR Agonists That Induce ApoE and Tyrosine Hydroxylase in Cultured Human Glioblastoma Cells. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 857-871	5.7	2

7	Distinct functional modes of SUMOylation for retinoid X receptor alpha. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 464, 195-200	3.4	1
6	The rexinoid V-125 reduces tumor growth in preclinical models of breast and lung cancer.. <i>Scientific Reports</i> , 2022 , 12, 293	4.9	1
5	Novel nuclear localization signal between the two DNA-binding zinc fingers in the human vitamin D receptor 1998 , 70, 94		1
4	Methods to Assess Activity and Potency of Rexinoids Using Rapid Luciferase-Based Assays: A Case Study with NEt-TMN. <i>Methods in Molecular Biology</i> , 2019 , 2019, 95-108	1.4	0
3	Conversion of the anti-tumor agent tasidotin (ILX651) to its active metabolite by prolyl oligopeptidase. <i>Enzyme and Microbial Technology</i> , 2010 , 46, 246-251	3.8	
2	Vitamin D Stimulates Serotonin Production via Induction of the Tryptophan Hydroxylase 2 Isoform in B14 Rat Medullary Neurons. <i>FASEB Journal</i> , 2018 , 32, 1b155	0.9	
1	Vitamin D Nutrient-Gene Interactions and Healthful Aging 2016 , 449-471		