Peter W Jurutka

List of Publications by Year
in descending order

100 papers	7,367 citations	94269 37 h-index	56606 83 g-index
102 all docs	102 docs citations	102 times ranked	7440 citing authors

#	Article	IF	Citations
1	The Nuclear Vitamin D Receptor: Biological and Molecular Regulatory Properties Revealed. Journal of Bone and Mineral Research, 1998, 13, 325-349.	3.1	1,217
2	Molecular Mechanisms of Vitamin D Action. Calcified Tissue International, 2013, 92, 77-98.	1.5	601
3	Vitamin D receptor (VDR)-mediated actions of 1Î±,25(OH)2vitamin D3: Genomic and non-genomic mechanisms. Best Practice and Research in Clinical Endocrinology and Metabolism, 2011, 25, 543-559.	2.2	527
4	Functionally relevant polymorphisms in the human nuclear vitamin D receptor gene. Molecular and Cellular Endocrinology, 2001, 177, 145-159.	1.6	354
5	The Polymorphic N Terminus in Human Vitamin D Receptor Isoforms Influences Transcriptional Activity by Modulating Interaction with Transcription Factor IIB. Molecular Endocrinology, 2000, 14, 401-420.	3.7	339
6	Vitamin D receptor: molecular signaling and actions of nutritional ligands in disease prevention. Nutrition Reviews, 2008, 66, S98-S112.	2.6	253
7	Molecular nature of the vitamin D receptor and its role in regulation of gene expression. Reviews in Endocrine and Metabolic Disorders, 2001, 2, 203-216.	2.6	251
8	Physical and Functional Interaction between the Vitamin D Receptor and Hairless Corepressor, Two Proteins Required for Hair Cycling. Journal of Biological Chemistry, 2003, 278, 38665-38674.	1.6	200
9	1,25-Dihydroxyvitamin D3/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. Journal of Steroid Biochemistry and Molecular Biology, 2007, 103, 381-388.	1.2	157
10	The nuclear vitamin D receptor controls the expression of genes encoding factors which feed the â€œFountain of Youthâ€•to mediate healthful aging. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 88-97.	1.2	156
11	Vitamin D receptor controls expression of the anti-aging klotho gene in mouse and human renal cells. Biochemical and Biophysical Research Communications, 2011, 414, 557-562.	1.0	152
12	Steroid hormone receptors: Evolution, ligands, and molecular basis of biologic function. , 1999, 75, 110-122.		150
13	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 D₃- Mediated Transcriptional Activation. Molecular Endocrinology, 1991, 5, 373-385.	3.7	144
14	1,25-Dihydroxyvitamin D regulates expression of the tryptophan hydroxylase 2 and leptin genes: implication for behavioral influences of vitamin D. FASEB Journal, 2015, 29, 4023-4035.	0.2	139
15	Vitamin D Receptor: Key Roles in Bone Mineral Pathophysiology, Molecular Mechanism of Action, and Novel Nutritional Ligands. Journal of Bone and Mineral Research, 2007, 22, V2-V10.	3.1	126
16	Liganded VDR induces CYP3A4 in small intestinal and colon cancer cells via DR3 and ER6 vitamin D responsive elements. Biochemical and Biophysical Research Communications, 2002, 299, 730-738.	1.0	124
17	The role of vitamin D in the FGF23, klotho, and phosphate bone-kidney endocrine axis. Reviews in Endocrine and Metabolic Disorders, 2012, 13, 57-69.	2.6	120
18	Curcumin: a novel nutritionally derived ligand of the vitamin D receptor with implications for colon cancer chemoprevention. Journal of Nutritional Biochemistry, 2010, 21, 1153-1161.	1.9	107

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19	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. Journal of Biological Chemistry, 1998, 273, 8483-8491.	1.6	105
20	Vitamin D and Colorectal, Breast, and Prostate Cancers: A Review of the Epidemiological Evidence. Journal of Cancer, 2016, 7, 232-240.	1.2	95
21	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. Molecular Endocrinology, 1996, 10, 1617-1631.	3.7	82
22	Molecular and functional comparison of 1,25-dihydroxyvitamin D3 and the novel vitamin D receptor ligand, lithocholic acid, in activating transcription of cytochrome P450 3A4. Journal of Cellular Biochemistry, 2005, 94, 917-943.	1.2	80
23	1,25-Dihydroxyvitamin D3 Regulation of Fibroblast Growth Factor-23 Expression in Bone Cells: Evidence for Primary and Secondary Mechanisms Modulated by Leptin and Interleukin-6. Calcified Tissue International, 2013, 92, 339-353.	1.5	79
24	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. Journal of Biological Chemistry, 1997, 272, 14592-14599.	1.6	78
25	Optimal vitamin D spurs serotonin: 1,25-dihydroxyvitamin D represses serotonin reuptake transport (SERT) and degradation (MAO-A) gene expression in cultured rat serotonergic neuronal cell lines. Genes and Nutrition, 2018, 13, 19.	1.2	78
26	CYP24A1 and CYP27B1 Polymorphisms Modulate Vitamin D Metabolism in Colon Cancer Cells. Cancer Research, 2013, 73, 2563-2573.	0.4	70
27	Novel nuclear localization signal between the two DNA-binding zinc fingers in the human vitamin D receptor. Journal of Cellular Biochemistry, 1998, 70, 94-109.	1.2	69
28	Vitamin D receptor ligands, adenomatous polyposis coli, and the vitamin D receptor <i>Fok</i>I polymorphism collectively modulate Î²â€catenin activity in colon cancer cells. Molecular Carcinogenesis, 2010, 49, 337-352.	1.3	69
29	Distinct retinoid X receptor activation function-2 residues mediate transactivation in homodimeric and vitamin D receptor heterodimeric contexts. Journal of Molecular Endocrinology, 2001, 27, 211-227.	1.1	64
30	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). Journal of Medicinal Chemistry, 2009, 52, 5950-5966.	2.9	52
31	FGF23 gene regulation by 1,25-dihydroxyvitamin D: opposing effects in adipocytes and osteocytes. Journal of Endocrinology, 2015, 226, 155-166.	1.2	47
32	Genetic Polymorphisms in Vitamin D Receptor <i>VDR/RXRA</i> Influence the Likelihood of Colon Adenoma Recurrence. Cancer Research, 2010, 70, 1496-1504.	0.4	46
33	Concentrations of the Vitamin D Metabolite 1,25(OH)2D and Odds of Metabolic Syndrome and its Components. Metabolism: Clinical and Experimental, 2015, 64, 447-459.	1.5	45
34	Resveratrol Potentiates Vitamin D and Nuclear Receptor Signaling. Journal of Cellular Biochemistry, 2015, 116, 1130-1143.	1.2	44
35	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. Journal of Biological Chemistry, 2004, 279, 46406-46414.	1.6	43
36	Characterization of Unique DNA-Binding and Transcriptional-Activation Functions in the Carboxyl-Terminal Extension of the Zinc Finger Region in the Human Vitamin D Receptorâ€. Biochemistry, 1999, 38, 16347-16358.	1.2	42

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37	1,25-Dihydroxyvitamin D and Klotho. Vitamins and Hormones, 2016, 100, 165-230.	0.7	42
38	The T-Box near the Zinc Fingers of the Human Vitamin D Receptor Is Required for Heterodimeric DNA Binding and Transactivation. Biochemical and Biophysical Research Communications, 1995, 215, 1-7.	1.0	38
39	Phosphorylation of the Human 1,25-Dihydroxyvitamin D3 Receptor by cAMP-Dependent Protein-Kinase, In Vitro, and in Transfected COS-7 Cells. Biochemical and Biophysical Research Communications, 1993, 191, 1089-1096.	1.0	37
40	Isolation of baculovirus-expressed human vitamin D receptor: DNA responsive element interactions and phosphorylation of the purified receptor. Journal of Cellular Biochemistry, 2002, 85, 435-457.	1.2	37
41	Polymorphic Variation in the<i>GC</i>and<i>CASR</i>Genes and Associations with Vitamin D Metabolite Concentration and Metachronous Colorectal Neoplasia. Cancer Epidemiology Biomarkers and Prevention, 2012, 21, 368-375.	1.1	35
42	Vitamin D Receptor Phosphorylation in Transfected ROS 17/2.8 Cells Is Localized to the N-Terminal Region of the Hormone-Binding Domain. Molecular Endocrinology, 1991, 5, 1137-1146.	3.7	34
43	The 1,25-dihydroxyvitamin D3 receptor is phosphorylated in response to 1,25-dihydroxyvitamin D3 and 22-oxacalcitriol in rat osteoblasts, and by casein kinase II, in vitro. Biochemistry, 1993, 32, 8184-8192.	1.2	34
44	Suppression of ANP Gene Transcription by Liganded Vitamin D Receptor. Hypertension, 1998, 31, 1338-1342.	1.3	33
45	Association between polymorphic variation in VDR and RXRA and circulating levels of vitamin D metabolites. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 438-441.	1.2	33
46	SIRT1 enzymatically potentiates 1,25-dihydroxyvitamin D3 signaling via vitamin D receptor deacetylation. Journal of Steroid Biochemistry and Molecular Biology, 2017, 172, 117-129.	1.2	31
47	Examination of the Potential Functional Role of Conserved Cysteine Residues in the Hormone Binding Domain of the Human 1,25-Dihydroxyvitamin D3 Receptor. Journal of Biological Chemistry, 1996, 271, 5143-5149.	1.6	28
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.		28
49	Association between circulating concentrations of 25(OH)D and colorectal adenoma: A pooled analysis. International Journal of Cancer, 2013, 133, 2980-2988.	2.3	28
50	Physical activity, sedentary behavior, and vitamin D metabolites. Bone, 2016, 83, 248-255.	1.4	28
51	CYP24A1 and CYP27B1 Polymorphisms, Concentrations of Vitamin D Metabolites, and Odds of Colorectal Adenoma Recurrence. Nutrition and Cancer, 2015, 67, 1131-1141.	0.9	26
52	Vitamin D Receptor Mediates a Myriad of Biological Actions Dependent on Its 1,25â€‹<scp>Dihydroxyvitamin</scp> D Ligand: Distinct Regulatory Themes Revealed by Induction of Klotho and Fibroblast Growth Factorâ€23. JBMR Plus, 2021, 5, e10432.	1.3	24
53	Retinoid X Receptor Selective Agonists and their Synthetic Methods. Current Topics in Medicinal Chemistry, 2017, 17, 742-767.	1.0	24
54	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 (<i>E</i>)-3-(3-(1,2,3,4-tetrahydro-1,1,4,4,6-pentamethylnaphthalen-7-yl)-4-hydroxyphenyl)acrylic Acid (CD3254). Journal of Medicinal Chemistry, 2013, 56, 8432-8454.	2.9	23

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55	Total and Free Circulating Vitamin D and Vitamin Dâ€“Binding Protein in Relation to Colorectal Cancer Risk in a Prospective Study of African Americans. Cancer Epidemiology Biomarkers and Prevention, 2017, 26, 1242-1247.	1.1	23
56	Purified Human Vitamin D Receptor Overexpressed in Escherichia coli and Baculovirus Systems Does Not Bind 1,25-Dihydroxyvitamin D3 Hormone Efficiently Unless Supplemented with a Rat Liver Nuclear Extract. Biochemical and Biophysical Research Communications, 1993, 197, 478-485.	1.0	22
57	Nuclear Vitamin D Receptor: Structure-Function, Molecular Control of Gene Transcription, and Novel Bioactions. , 2005, , 219-261.		22
58	Graviola (Annona muricata) 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. International Journal of Molecular Sciences, 2018, 19, 1791.	1.8	22
59	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. Endocrinology, 2003, 144, 5065-5080.	1.4	20
60	Phosphorylation of human vitamin D receptor serine-182 by PKA suppresses 1,25(OH)2D3-dependent transactivation. Biochemical and Biophysical Research Communications, 2004, 324, 801-809.	1.0	20
61	Vitamin D: Marker or Mechanism of Action?. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 585-590.	1.1	20
62	Gene Expression Profiling and Assessment of Vitamin D and Serotonin Pathway Variations in Patients With Irritable Bowel Syndrome. Journal of Neurogastroenterology and Motility, 2018, 24, 96-106.	0.8	20
63	Inhibition of ligand induced promoter occupancyin vivoby a dominant negative RXR. Genes To Cells, 1996, 1, 209-221.	0.5	19
64	Discovery of novel vitamin D receptor interacting proteins that modulate 1,25-dihydroxyvitamin D3 signaling. Journal of Steroid Biochemistry and Molecular Biology, 2012, 132, 147-159.	1.2	19
65	Receptor mediated genomic action of the 1,25(OH)2D3 hormone: Expression of the human vitamin D receptor in E. coli. Journal of Steroid Biochemistry and Molecular Biology, 1995, 53, 583-594.	1.2	18
66	Control of late cornified envelope genes relevant to psoriasis risk: upregulation by 1,25-dihydroxyvitamin D3 and plant-derived delphinidin. Archives of Dermatological Research, 2013, 305, 867-878.	1.1	18
67	Associations between circulating 1,25(OH)2D concentration and odds of metachronous colorectal adenoma. Cancer Causes and Control, 2014, 25, 809-817.	0.8	16
68	Synthesis and biological evaluation of halogenated curcumin analogs as potential nuclear receptor selective agonists. Bioorganic and Medicinal Chemistry, 2013, 21, 693-702.	1.4	14
69	Regulation of late cornified envelope genes relevant to psoriasis risk by plant-derived cyanidin. Biochemical and Biophysical Research Communications, 2014, 443, 1275-1279.	1.0	14
70	Analysis of differential secondary effects of novel rexinoids: select rexinoid X receptor ligands demonstrate differentiated side effect profiles. Pharmacology Research and Perspectives, 2015, 3, e00122.	1.1	14
71	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). Journal of Medicinal Chemistry, 2016, 59, 8924-8940.	2.9	14
72	Modeling, Synthesis and Biological Evaluation of Potential Retinoidâ€…X Receptorâ€Selective Agonists: Novel Halogenated Analogues of 4â€[1â€(3,5,5,8,8â€Pentamethylâ€5,6,7,8â€tetrahydroâ€2â€naphthyl)ethynyl]benzoic Acid (Bexarotene). ChemMedChem, 2012, 7, 1551-1566.	1.6	13

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73	Associations between Vitamin Dâ€“Binding Protein Isotypes, Circulating 25(OH)D Levels, and Vitamin D Metabolite Uptake in Colon Cancer Cells. Cancer Prevention Research, 2014, 7, 426-434.	0.7	13
74	Vitamin D receptor-mediated control of Soggy, Wise, and Hairless gene expression in keratinocytes. Journal of Endocrinology, 2014, 220, 165-178.	1.2	13
75	Bioactive Dietary VDR Ligands Regulate Genes Encoding Biomarkers of Skin Repair That Are Associated with Risk for Psoriasis. Nutrients, 2018, 10, 174.	1.7	13
76	Testing Novel Pyrimidinyl Rexinoids: A New Paradigm for Evaluating Rexinoids for Cancer Prevention. Cancer Prevention Research, 2019, 12, 211-224.	0.7	13
77	Nuclear Vitamin D Receptor: Natural Ligands, Molecular Structureâ€“Function, and Transcriptional Control of Vital Genes. , 2011, , 137-170.		12
78	Vitamin D, Calcium, and Colorectal Neoplasia: New Insights on Mechanisms of Action. Cancer Prevention Research, 2009, 2, 197-199.	0.7	11
79	Triterpenes from <i>Poria cocos</i> are revealed as potential retinoid X receptor selective agonists based on cell and in silico evidence. Chemical Biology and Drug Design, 2020, 95, 493-502.	1.5	10
80	Association between Circulating Vitamin D Metabolites and Fecal Bile Acid Concentrations. Cancer Prevention Research, 2016, 9, 589-597.	0.7	9
81	A novel gene expression analytics-based approach to structure aided design of rexinoids for development as next-generation cancer therapeutics. Steroids, 2018, 135, 36-49.	0.8	9
82	Sentrin/SUMO Specific Proteases as Novel Tissue-Selective Modulators of Vitamin D Receptor-Mediated Signaling. PLoS ONE, 2014, 9, e89506.	1.1	8
83	Biochemical Evidence for a 170-Kilodalton, AF-2-Dependent Vitamin D Receptor/Retinoid X Receptor Coactivator That Is Highly Expressed in Osteoblasts. Biochemical and Biophysical Research Communications, 2000, 267, 813-819.	1.0	6
84	Presence of a TA Haplotype in the <i>APC</i> Gene Containing the Common 1822 Polymorphism and Colorectal Adenoma. Cancer Research, 2008, 68, 6006-6013.	0.4	6
85	The rexinoid V-125 reduces tumor growth in preclinical models of breast and lung cancer. Scientific Reports, 2022, 12, 293.	1.6	6
86	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. Journal of Nutrition, 2017, 147, jn243352.	1.3	5
87	Pomegranate derivative urolithin A enhances vitamin D receptor signaling to amplify serotonin-related gene induction by 1,25-dihydroxyvitamin D. Biochemistry and Biophysics Reports, 2020, 24, 100825.	0.7	5
88	Evaluating Novel RXR Agonists That Induce ApoE and Tyrosine Hydroxylase in Cultured Human Glioblastoma Cells. ACS Chemical Neuroscience, 2021, 12, 857-871.	1.7	5
89	Rexinoids Modulate Effector T Cell Expression of Mucosal Homing Markers CCR9 and Î±4Î²7 Integrin and Direct Their Migration In Vitro. Frontiers in Immunology, 2022, 13, 746484.	2.2	3
90	Assessment of Novel Vitamin D Receptor Antagonists that Mediate Suppression of Vitamin D Signaling. FASEB Journal, 2018, 32, lb98.	0.2	2

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91	Methods to Assess Activity and Potency of Rexinoids Using Rapid Luciferase-Based Assays: A Case Study with NEt-TMN. Methods in Molecular Biology, 2019, 2019, 95-108.	0.4	2
92	Modeling, Synthesis, and Biological Evaluation of Potential Retinoid-X-Receptor (RXR) Selective Agonists: Analogs of 4-[1-(3,5,5,8,8-Pentamethyl-5,6,7,8-tetrahyro-2-naphthyl)ethynyl]benzoic Acid (Bexarotene) and 6-(Ethyl(4-isobutoxy-3-isopropylphenyl)amino)nicotinic Acid (NEt-4IB). International Journal of Molecular Sciences, 2021, 22, 12371.	1.8	2
93	Distinct functional modes of SUMOylation for retinoid X receptor alpha. Biochemical and Biophysical Research Communications, 2015, 464, 195-200.	1.0	1
94	EDITORIAL: Rexinoids. Current Topics in Medicinal Chemistry, 2017, 17, 629-630.	1.0	1
95	Novel nuclear localization signal between the two DNAâ€binding zinc fingers in the human vitamin D receptor. Journal of Cellular Biochemistry, 1998, 70, 94-109.	1.2	1
96	Conversion of the anti-tumor agent tasidotin (ILX651) to its active metabolite by prolyl oligopeptidase. Enzyme and Microbial Technology, 2010, 46, 246-251.	1.6	0
97	Vitamin D Nutrient-Gene Interactions and Healthful Aging. , 2016, , 449-471.		0
98	Abstract B36: Circulating FGF-23 is associated with metachronous colorectal adenomas. , 2010, , .		0
99	Abstract 1888: Calcium, magnesium, and vitamin D metabolites in colorectal adenoma prevention. , 2015, , .		0
100	Vitamin D Stimulates Serotonin Production via Induction of the Tryptophan Hydroxylase 2 Isoform in B14 Rat Medullary Neurons. FASEB Journal, 2018, 32, lb155.	0.2	0