William Bourguet

List of Publications by Citations

100 papers	7,089 citations	37 h-index	84 g-index
116 ext. papers	7,767 ext. citations	7.7 avg, IF	5.5 L-index

#	Paper	IF	Citations
100	Crystal structure of the ligand-binding domain of the human nuclear receptor RXR-alpha. *Nature*, **1995**, 375, 377-82	50.4	1062
99	A canonical structure for the ligand-binding domain of nuclear receptors. *Nature Structural Biology*, **1996**, 3, 87-94		776
98	Nuclear receptor ligand-binding domains: three-dimensional structures, molecular interactions and pharmacological implications. *Trends in Pharmacological Sciences*, **2000**, 21, 381-8	13.2	381
97	Crystal structure of a heterodimeric complex of RAR and RXR ligand-binding domains. *Molecular Cell*, **2000**, 5, 289-98	17.6	362
96	Osh4p exchanges sterols for phosphatidylinositol 4-phosphate between lipid bilayers. *Journal of Cell Biology*, **2011**, 195, 965-78	7.3	290
95	Structural and functional evidence for ligand-independent transcriptional activation by the estrogen-related receptor 3. *Molecular Cell*, **2002**, 9, 303-13	17.6	238
94	INTRACELLULAR TRANSPORT. Phosphatidylserine transport by ORP/Osh proteins is driven by phosphatidylinositol 4-phosphate. *Science*, **2015**, 349, 432-6	33.3	236
93	Structural and mechanistic insights into bisphenols action provide guidelines for risk assessment and discovery of bisphenol A substitutes. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14930-5	11.5	235
92	Peroxisome proliferator-activated receptor □s a target for halogenated analogs of bisphenol A. *Environmental Health Perspectives*, **2011**, 119, 1227-32	8.4	221
91	Design of selective nuclear receptor modulators: RAR and RXR as a case study. *Nature Reviews Drug Discovery*, **2007**, 6, 811-20	64.1	210
90	Activation of RXR-PPAR heterodimers by organotin environmental endocrine disruptors. *EMBO Reports*, **2009**, 10, 367-73	6.5	204
89	Exploring hydrophobic sites in proteins with xenon or krypton. *Proteins: Structure, Function and Bioinformatics*, **1998**, 30, 61-73	4.2	148
88	Modulators of the structural dynamics of the retinoid X receptor to reveal receptor function. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 17323-8	11.5	128
87	Modulation of RXR function through ligand design. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2012**, 1821, 57-69	5	119
86	A unique secondary-structure switch controls constitutive gene repression by retinoic acid receptor. *Nature Structural and Molecular Biology*, **2010**, 17, 801-7	17.6	118
85	A mutation mimicking ligand-induced conformational change yields a constitutive RXR that senses allosteric effects in heterodimers. *EMBO Journal*, **1997**, 16, 5697-709	13	110
84	Characterization of novel ligands of ER□Er□and PPAR□the case of halogenated bisphenol A and their conjugated metabolites. *Toxicological Sciences*, **2011**, 122, 372-82	4.4	105

83	Synergistic activation of human pregnane X receptor by binary cocktails of pharmaceutical and environmental compounds. *Nature Communications*, **2015**, 6, 8089	17.4	104
82	Characterization of the interaction between retinoic acid receptor/retinoid X receptor (RAR/RXR) heterodimers and transcriptional coactivators through structural and fluorescence anisotropy studies. *Journal of Biological Chemistry*, **2005**, 280, 1625-33	5.4	104
81	Estrogen-related receptor is an in vivo receptor of bisphenol A. *FASEB Journal*, **2014**, 28, 3124-33	0.9	91
80	Differential action on coregulator interaction defines inverse retinoid agonists and neutral antagonists. *Chemistry and Biology*, **2009**, 16, 479-89		90
79	A structural view of nuclear hormone receptor: endocrine disruptor interactions. *Cellular and Molecular Life Sciences*, **2010**, 67, 1219-37	10.3	90
78	The transrepressive activity of peroxisome proliferator-activated receptor alpha is necessary and sufficient to prevent liver fibrosis in mice. *Hepatology*, **2014**, 60, 1593-606	11.2	82
77	The structure of Staphylococcus aureus epidermolytic toxin A, an atypic serine protease, at 1.7 A resolution. *Structure*, **1997**, 5, 813-24	5.2	80
76	Retinoid receptors and therapeutic applications of RAR/RXR modulators. *Current Topics in Medicinal Chemistry*, **2012**, 12, 505-27	3	72
75	A structural perspective on nuclear receptors as targets of environmental compounds. *Acta Pharmacologica Sinica*, **2015**, 36, 88-101	8	68
74	Ligand- and DNA-induced dissociation of RXR tetramers. *Journal of Molecular Biology*, **1998**, 275, 55-65	6.5	64
73	Structural basis for a molecular allosteric control mechanism of cofactor binding to nuclear receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E588-94	11.5	62
72	Separation of retinoid X receptor homo- and heterodimerization functions. *Molecular and Cellular Biology*, **2003**, 23, 7678-88	4.8	56
71	Structural and functional profiling of environmental ligands for estrogen receptors. *Environmental Health Perspectives*, **2014**, 122, 1306-13	8.4	55
70	Reporter Cell Lines for the Characterization of the Interactions between Human Nuclear Receptors and Endocrine Disruptors. *Frontiers in Endocrinology*, **2015**, 6, 62	5.7	49
69	Nuclear receptor profiling of bisphenol-A and its halogenated analogues. *Vitamins and Hormones*, **2014**, 94, 229-51	2.5	47
68	A Novel Mutation in THRA Gene Associated With an Atypical Phenotype of Resistance to Thyroid Hormone. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 2841-8	5.6	45
67	Discovery of a highly active ligand of human pregnane x receptor: a case study from pharmacophore modeling and virtual screening to "in vivo" biological activity. *Molecular Pharmacology*, **2007**, 72, 572-81	4.3	45
66	Fragment-based discovery of a new family of non-peptidic small-molecule cyclophilin inhibitors with potent antiviral activities. *Nature Communications*, **2016**, 7, 12777	17.4	44

65	A mollusk retinoic acid receptor (RAR) ortholog sheds light on the evolution of ligand binding. *Endocrinology*, **2014**, 155, 4275-86	4.8	37
64	Nuclear receptor superfamily: Principles of signaling. *Pure and Applied Chemistry*, **2003**, 75, 1619-1664	2.1	37
63	Combining 'dry' co-crystallization and in situ diffraction to facilitate ligand screening by X-ray crystallography. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 1777-87		36
62	Modulating retinoid X receptor with a series of (E)-3-[4-hydroxy-3-(3-alkoxy-5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)phenyl]acrylic acids and their 4-alkoxy isomers. *Journal of Medicinal Chemistry*, **2009**, 52, 3150-8	8.3	36
61	Allosteric effects govern nuclear receptor action: DNA appears as a player. *Science Signaling*, **2009**, 2, pe34	8.8	35
60	Heterodimeric complex of RAR and RXR nuclear receptor ligand-binding domains: purification, crystallization, and preliminary X-ray diffraction analysis. *Protein Expression and Purification*, **2000**, 19, 284-8	2	34
59	Structural and functional evidences for the interactions between nuclear hormone receptors and endocrine disruptors at low doses. *Comptes Rendus - Biologies*, **2017**, 340, 414-420	1.4	32
58	Selectivity of natural, synthetic and environmental estrogens for zebrafish estrogen receptors. *Toxicology and Applied Pharmacology*, **2014**, 280, 60-9	4.6	31
57	The ancestral retinoic acid receptor was a low-affinity sensor triggering neuronal differentiation. *Science Advances*, **2018**, 4, eaao1261	14.3	28
56	Purification, functional characterization, and crystallization of the ligand binding domain of the retinoid X receptor. *Protein Expression and Purification*, **1995**, 6, 604-8	2	28
55	Regulation of RXR-RAR Heterodimers by RXR- and RAR-Specific Ligands and Their Combinations. *Cells*, **2019**, 8,	7.9	27
54	Interplay of Protein Disorder in Retinoic Acid Receptor Heterodimer and Its Corepressor Regulates Gene Expression. *Structure*, **2019**, 27, 1270-1285.e6	5.2	25
53	Retinoic acid receptor modulators: a perspective on recent advances and promises. *Expert Opinion on Therapeutic Patents*, **2011**, 21, 55-63	6.8	23
52	Diosgenin relieves goiter via the inhibition of thyrocyte proliferation in a mouse model of Graves' disease. *Acta Pharmacologica Sinica*, **2014**, 35, 65-73	8	22
51	Sequences in the ligand-binding domains of the human androgen and progesterone receptors which determine their distinct ligand identities. *Journal of Molecular Endocrinology*, **1997**, 18, 147-60	4.5	22
50	The Human Mixed Lineage Leukemia 5 (MLL5), a Sequentially and Structurally Divergent SET Domain-Containing Protein with No Intrinsic Catalytic Activity. *PLoS ONE*, **2016**, 11, e0165139	3.7	21
49	Mechanisms of endocrine disruption through nuclear receptors and related pathways. *Current Opinion in Endocrine and Metabolic Research*, **2019**, 7, 1-8	1.7	19
48	In Silico Predictions of Endocrine Disruptors Properties. *Endocrinology*, **2019**, 160, 2709-2716	4.8	19

47	Monitoring ligand-mediated nuclear receptor-coregulator interactions by noncovalent mass spectrometry. *FEBS Journal*, **2004**, 271, 4958-67		19
46	Dimerization of nuclear receptors. *Methods in Cell Biology*, **2013**, 117, 21-41	1.8	17
45	Reporter cell lines to evaluate the selectivity of chemicals for human and zebrafish estrogen and peroxysome proliferator activated receptors. *Frontiers in Neuroscience*, **2015**, 9, 212	5.1	17
44	Retinoic acid receptors: structural basis for coregulator interaction and exchange. *Sub-Cellular Biochemistry*, **2014**, 70, 37-54	5.5	16
43	SMRT, a corepressor variant, interacts with a restricted subset of nuclear receptors, including the retinoic acid receptors and *Molecular and Cellular Endocrinology*, **2012**, 351, 306-16	4.4	16
42	Mechanistic insights into the synergistic activation of the RXR-PXR heterodimer by endocrine disruptor mixtures. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	16
41	Structure of the third intracellular loop of the vasopressin V2 receptor and conformational changes upon binding to gC1qR. *Journal of Molecular Biology*, **2009**, 388, 491-507	6.5	15
40	Mutation of the androgen receptor at amino acid 708 (Gly-->Ala) abolishes partial agonist activity of steroidal antiandrogens. *Molecular Pharmacology*, **2003**, 63, 791-8	4.3	15
39	The GOLIATH Project: Towards an Internationally Harmonised Approach for Testing Metabolism Disrupting Compounds. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	13
38	Inverse agonists and antagonists of retinoid receptors. *Methods in Enzymology*, **2010**, 485, 161-95	1.7	13
37	Pyrazine arotinoids with inverse agonist activities on the retinoid and rexinoid receptors. *ChemBioChem*, **2009**, 10, 1252-9	3.8	12
36	Towards accurate high-throughput ligand affinity prediction by exploiting structural ensembles, docking metrics and ligand similarity. *Bioinformatics*, **2020**, 36, 160-168	7.2	11
35	An Unexpected Mode Of Binding Defines BMS948 as A Full Retinoic Acid Receptor (RAR, NR1B2) Selective Agonist. *PLoS ONE*, **2015**, 10, e0123195	3.7	10
34	A new mutation of the androgen receptor, P817A, causing partial androgen insensitivity syndrome: in vitro and structural analysis. *Journal of Molecular Endocrinology*, **2004**, 32, 679-87	4.5	10
33	Insights into the activation mechanism of human estrogen-related receptor by environmental endocrine disruptors. *Cellular and Molecular Life Sciences*, **2019**, 76, 4769-4781	10.3	9
32	A revisited version of the apo structure of the ligand-binding domain of the human nuclear receptor retinoic X receptor *Acta Crystallographica Section F, Structural Biology Communications*, **2019**, 75, 98-104	1.1	9
31	Glutamic acid 709 substitutions highlight the importance of the interaction between androgen receptor helices H3 and H12 for androgen and antiandrogen actions. *Molecular Endocrinology*, **2006**, 20, 724-34		8
30	RAR-RXR selectivity and biological activity of new retinoic acid analogues with heterocyclic or polycyclic aromatic systems. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 2099-102	3.4	8

29	Human and Zebrafish Nuclear Progesterone Receptors Are Differently Activated by Manifold Progestins. *Environmental Science & Technology*, **2020**, 54, 9510-9518	10.3	8
28	Pathological Interactions Between Mutant Thyroid Hormone Receptors and Corepressors and Their Modulation by a Thyroid Hormone Analogue with Therapeutic Potential. *Thyroid*, **2018**, 28, 1708-1722	6.2	8
27	Two Novel Cases of Resistance to Thyroid Hormone Due to Mutation. *Thyroid*, **2020**, 30, 1217-1221	6.2	7
26	Pathophysiology of androgen insensitivity syndromes: molecular and structural approaches of natural and engineered androgen receptor mutations at amino acid 743. *Journal of Clinical Endocrinology and Metabolism*, **2002**, 87, 5793-800	5.6	7
25	Evolutionary diversification of retinoic acid receptor ligand-binding pocket structure by molecular tinkering. *Royal Society Open Science*, **2016**, 3, 150484	3.3	7
24	An integrated structure- and system-based framework to identify new targets of metabolites and known drugs. *Bioinformatics*, **2015**, 31, 3922-9	7.2	6
23	N-1H-benzimidazol-5-ylbenzenesulfonamide derivatives as potent hPXR agonists. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 3537-49	3.4	6
22	Structural and Functional Specialization of OSBP-Related Proteins. *Contact (Thousand Oaks (Ventura County, Calif))*, **2020**, 3, 251525642094662	2.6	6
21	Structural Insights into the Interaction of the Intrinsically Disordered Co-activator TIF2 with Retinoic Acid Receptor Heterodimer (RXR/RAR). *Journal of Molecular Biology*, **2021**, 433, 166899	6.5	6
20	Androgen and estrogen receptors: potential of crystallography in the fight against cancer. *International Journal of Biochemistry and Cell Biology*, **2007**, 39, 1280-7	5.6	5
19	Synthesis of a biospecific adsorbent for the purification of the three human retinoic acid receptors by affinity chromatography. *Biochemical and Biophysical Research Communications*, **1992**, 187, 711-6	3.4	5
18	Protein-protein interactions in the regulation of RAR-RXR heterodimers transcriptional activity. *Methods in Enzymology*, **2020**, 637, 175-207	1.7	4
17	High Content Screening Using New U2OS Reporter Cell Models Identifies Harmol Hydrochloride as a Selective and Competitive Antagonist of the Androgen Receptor. *Cells*, **2020**, 9,	7.9	4
16	IDPs and their complexes in GPCR and nuclear receptor signaling. *Progress in Molecular Biology and Translational Science*, **2020**, 174, 105-155	4	3
15	Purification and crystallization of the heterodimeric complex of RARbeta and RXRalpha ligand-binding domains in the active conformation. *Acta Crystallographica Section D: Biological Crystallography*, **2004**, 60, 1170-2		3
14	Functional analyses of phosphatidylserine/PI(4)P exchangers with diverse lipid species and membrane contexts reveal unanticipated rules on lipid transfer. *BMC Biology*, **2021**, 19, 248	7.3	3
13	Peroxisome proliferator-activated receptor gamma-ligand-binding domain mutations associated with familial partial lipodystrophy type 3 disrupt human trophoblast fusion and fibroblast migration. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 7660-7669	5.6	2
12	Functional and Structural Study of the Amino Acid Substitution in a Novel Familial Androgen Receptor Mutation (W752G) Responsible for Complete Androgen Insensitivity Syndrome. *Sexual Development*, **2018**,	1.6	2

11	Interspecies Differences in Activation of Peroxisome Proliferator-Activated Receptor by Pharmaceutical and Environmental Chemicals. *Environmental Science & Technology*, **2021**,	10.3	2
10	Ligands and DNA in the allosteric control of retinoid receptors function. *Essays in Biochemistry*, **2021**, 65, 887-899	7.6	2
9	Toxicant Actions: Mode of Action of Endocrine Disruptors **2018**, 567-572		1
8	Retinoid Receptors **2015**, 131-149		1
7	Retinoid Receptor-Selective Modulators **2015**, 165-192		1
6	Nuclear receptor ligand-binding domains: reduction of helix H12 dynamics to favour crystallization. *Acta Crystallographica Section F: Structural Biology Communications*, **2008**, 64, 614-6		1
5	A Comparative Study of Human and Zebrafish Pregnane X Receptor Activities of Pesticides and Steroids Using Reporter Gene Assays. *Frontiers in Endocrinology*, **2021**, 12, 665521	5.7	1
4	Functional analyses of phosphatidylserine/PI(4)P exchangers with diverse lipid species and membrane contexts set unanticipated rules on lipid transfer		1
3	Signal Transduction and Structure of Nuclear Receptors. *Growth Hormone*, **2002**, 241-267		1
2	Caractérisation des interactions entre récepteurs nucléaires et perturbateurs endocriniens contenus dans l'alimentation. *Cahiers De Nutrition Et De Dietetique*, **2017**, 52, 239-243	0.2	
1	Chapter 24:Retinoic Acid Receptors and their Modulators: Structural and Functional Insights. *Food and Nutritional Components in Focus*, **2012**, 417-437		