Francesc Pujol Ventura

List of Publications by Year
in descending order

120 papers	9,045 citations	87401 40 h-index	46524 93 g-index
121 all docs	121 docs citations	121 times ranked	10528 citing authors

#	Article	IF	Citations
1	The HERC proteins and the nervous system. Seminars in Cell and Developmental Biology, 2022, 132, 5-15.	2.3	10
2	The Expression of TP53-Induced Glycolysis and Apoptosis Regulator (TIGAR) Can Be Controlled by the Antioxidant Orchestrator NRF2 in Human Carcinoma Cells. International Journal of Molecular Sciences, 2022, 23, 1905.	1.8	4
3	Challenges and Opportunities for Drug Repositioning in Fibrodysplasia Ossificans Progressiva. Biomedicines, 2021, 9, 213.	1.4	8
4	NRF2 function in osteocytes is required for bone homeostasis and drives osteocytic gene expression. Redox Biology, 2021, 40, 101845.	3.9	44
5	Regulation of the MDM2â€p53 pathway by the ubiquitin ligase HERC2. Molecular Oncology, 2020, 14, 69-86.	2.1	27
6	HERC Ubiquitin Ligases in Cancer. Cancers, 2020, 12, 1653.	1.7	20
7	The ubiquitin ligase HERC1 regulates cell migration via RAF-dependent regulation of MKK3/p38 signaling. Scientific Reports, 2020, 10, 824.	1.6	19
8	Large HERCs Function as Tumor Suppressors. Frontiers in Oncology, 2019, 9, 524.	1.3	6
9	Inhibition of phosphatidylinositol 3â€kinase Î± (<scp>PI</scp> 3KÎ±) prevents heterotopic ossification. EMBO Molecular Medicine, 2019, 11, e10567.	3.3	23
10	ACVR1 Function in Health and Disease. Cells, 2019, 8, 1366.	1.8	47
11	Interplay between BMPs and Reactive Oxygen Species in Cell Signaling and Pathology. Biomolecules, 2019, 9, 534.	1.8	31
12	Simultaneous analysis of 11 haloacetic acids by direct injection-liquid chromatography-electrospray ionization-triple quadrupole tandem mass spectrometry and high resolution mass spectrometry: occurrence and evolution in chlorine-treated water. Analytical and Bioanalytical Chemistry, 2019, 411, 3905-3917.	1.9	14
13	Glucose Restriction Promotes Osteocyte Specification by Activating a PGC-1Î±-Dependent Transcriptional Program. IScience, 2019, 15, 79-94.	1.9	23
14	Dioxanes and dioxolanes in source waters: Occurrence, odor thresholds and behavior through upgraded conventional and advanced processes in a drinking water treatment plant. Water Research, 2019, 156, 404-413.	5.3	22
15	Enzymatic crosslinked gelatin 3D scaffolds for bone tissue engineering. International Journal of Pharmaceutics, 2019, 562, 151-161.	2.6	46
16	Tris-Acetate Polyacrylamide Gradient Gels for the Simultaneous Electrophoretic Analysis of Proteins of Very High and Low Molecular Mass. Methods in Molecular Biology, 2019, 1855, 269-277.	0.4	5
17	Calcium mimics the chemotactic effect of conditioned media and is an effective inducer of bone regeneration. PLoS ONE, 2019, 14, e0210301.	1.1	9
18	The E3 ubiquitin ligase HERC1 controls the ERK signaling pathway targeting C-RAF for degradation. Oncotarget, 2018, 9, 31531-31548.	0.8	30

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19	Simultaneous determination of the potential carcinogen 1,4-dioxane and malodorous alkyl-1,3-dioxanes and alkyl-1,3-dioxolanes in environmental waters by solid-phase extraction and gas chromatography tandem mass spectrometry. Journal of Chromatography A, 2017, 1487, 1-13.	1.8	27
20	<scp>TGF</scp>â€Î²1 targets Smad, p38 <scp>MAPK</scp>, and <scp>PI</scp>3K/Akt signaling pathways to induce <scp>PFKFB</scp>3 gene expression and glycolysis in glioblastoma cells. FEBS Journal, 2017, 284, 3437-3454.	2.2	116
21	p53 inhibits SP7/Osterix activity in the transcriptional program of osteoblast differentiation. Cell Death and Differentiation, 2017, 24, 2022-2031.	5.0	50
22	Calcium-containing scaffolds induce bone regeneration by regulating mesenchymal stem cell differentiation and migration. Stem Cell Research and Therapy, 2017, 8, 265.	2.4	37
23	Extracellular calcium promotes bone formation from bone marrow mesenchymal stem cells by amplifying the effects of BMP-2 on SMAD signalling. PLoS ONE, 2017, 12, e0178158.	1.1	61
24	NEURL4 regulates the transcriptional activity of tumor suppressor protein p53 by modulating its oligomerization. Oncotarget, 2017, 8, 61824-61836.	0.8	17
25	p38 MAPK Signaling in Osteoblast Differentiation. Frontiers in Cell and Developmental Biology, 2016, 4, 40.	1.8	209
26	Analysis of Protein Oligomerization by Electrophoresis. Methods in Molecular Biology, 2016, 1449, 341-348.	0.4	2
27	Class I PI-3-Kinase Signaling Is Critical for Bone Formation Through Regulation of SMAD1 Activity in Osteoblasts. Journal of Bone and Mineral Research, 2016, 31, 1617-1630.	3.1	24
28	Tris-acetate polyacrylamide gradient gel electrophoresis for the analysis of protein oligomerization. Analytical and Bioanalytical Chemistry, 2016, 408, 1715-1719.	1.9	5
29	Odor Events in Surface and Treated Water: The Case of 1,3-Dioxane Related Compounds. Environmental Science & Technology, 2016, 50, 62-69.	4.6	18
30	Mesenchymal Stem Cells Within Gelatin/CaSO₄ Scaffolds Treated Ex Vivo with Low Doses of BMP-2 and Wnt3a Increase Bone Regeneration. Tissue Engineering - Part A, 2016, 22, 41-52.	1.6	15
31	The HERC2 ubiquitin ligase is essential for embryonic development and regulates motor coordination. Oncotarget, 2016, 7, 56083-56106.	0.8	24
32	Therapeutic ultrasound stimulates MC3T3-E1 cell proliferation through the activation of NF-ÎºB1, p38Î±, and mTOR. Lasers in Surgery and Medicine, 2015, 47, 765-772.	1.1	11
33	p38Î± function in osteoblasts influences adipose tissue homeostasis. FASEB Journal, 2015, 29, 1414-1425.	0.2	13
34	Analysis of 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX) and its brominated analogues in chlorine-treated water by gas chromatography coupled to triple quadrupole tandem mass spectrometry (GC-QqQ-MS/MS). Talanta, 2015, 144, 145-156.	2.9	3
35	Clinical Utility Gene Card for: Fibrodysplasia ossificans progressiva. European Journal of Human Genetics, 2015, 23, 1431-1431.	1.4	18
36	The p38Î± MAPK Function in Osteoprecursors Is Required for Bone Formation and Bone Homeostasis in Adult Mice. PLoS ONE, 2014, 9, e102032.	1.1	29

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37	Mitogen-activated Protein Kinase (MAPK)-regulated Interactions between Osterix and Runx2 Are Critical for the Transcriptional Osteogenic Program. Journal of Biological Chemistry, 2014, 289, 27105-27117.	1.6	92
38	The E3 Ubiquitin Protein Ligase HERC2 Modulates the Activity of Tumor Protein p53 by Regulating Its Oligomerization. Journal of Biological Chemistry, 2014, 289, 14782-14795.	1.6	55
39	Capsaicin Modulates Proliferation, Migration, and Activation of Hepatic Stellate Cells. Cell Biochemistry and Biophysics, 2014, 68, 387-396.	0.9	16
40	MicroRNAs and post-transcriptional regulation of skeletal development. Journal of Molecular Endocrinology, 2014, 52, R179-R197.	1.1	55
41	Simplified microenvironments and reduced cell culture size influence the cell differentiation outcome in cellular microarrays. Journal of Materials Science: Materials in Medicine, 2013, 24, 189-198.	1.7	2
42	PFKFB3 activation in cancer cells by the p38/MK2 pathway in response to stress stimuli. Biochemical Journal, 2013, 452, 531-543.	1.7	64
43	Osterix induces Col1a1 gene expression through binding to Sp1 sites in the bone enhancer and proximal promoter regions. Bone, 2013, 52, 548-556.	1.4	70
44	MicroRNA-322 (miR-322) and Its Target Protein Tob2 Modulate Osterix (Osx) mRNA Stability. Journal of Biological Chemistry, 2013, 288, 14264-14275.	1.6	77
45	Akt-dependent Activation of the Heart 6-Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase (PFKFB2) Isoenzyme by Amino Acids. Journal of Biological Chemistry, 2013, 288, 10640-10651.	1.6	63
46	Contribution of S6K1/MAPK Signaling Pathways in the Response to Oxidative Stress: Activation of RSK and MSK by Hydrogen Peroxide. PLoS ONE, 2013, 8, e75523.	1.1	17
47	BMP signaling in telencephalic neural cell specification and maturation. Frontiers in Cellular Neuroscience, 2013, 7, 87.	1.8	50
48	Sertoli-secreted FGF-2 induces PFKFB4 isozyme expression in mouse spermatogenic cells by activation of the MEK/ERK/CREB pathway. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E695-E707.	1.8	16
49	Glycogen Synthase Kinase-3Î² Is Involved in Ligand-Dependent Activation of Transcription and Cellular Localization of the Glucocorticoid Receptor. Molecular Endocrinology, 2012, 26, 1508-1520.	3.7	22
50	Antiproliferative effect of catechin in GRX cells. Biochemistry and Cell Biology, 2012, 90, 575-584.	0.9	10
51	Progestins activate 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3) in breast cancer cells. Biochemical Journal, 2012, 442, 345-356.	1.7	42
52	New chlorinated amphetamine-type-stimulants disinfection-by-products formed during drinking water treatment. Water Research, 2012, 46, 3304-3314.	5.3	31
53	Trisâ€“Acetate Polyacrylamide Gradient Gels for the Simultaneous Electrophoretic Analysis of Proteins of Very High and Low Molecular Mass. Methods in Molecular Biology, 2012, 869, 205-213.	0.4	22
54	Fructose-1,6-bisphosphate Protects against Zymosan-induced Acute Lung Injury in Mice. Inflammation, 2012, 35, 1198-1203.	1.7	7

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55	Fructose-1,6-Bisphosphate Reduces the Mortality in Candida albicans Bloodstream Infection and Prevents the Septic-Induced Platelet Decrease. Inflammation, 2012, 35, 1256-1261.	1.7	9
56	The Transcriptional Activation of the Cyclooxygenase-2 Gene in Zymosan-Activated Macrophages is Dependent on NF-Kappa B, C/EBP, AP-1, and CRE Sites. Inflammation, 2011, 34, 653-658.	1.7	17
57	Conserved regulatory motifs in osteogenic gene promoters integrate cooperative effects of canonical Wnt and BMP pathways. Journal of Bone and Mineral Research, 2011, 26, 718-729.	3.1	62
58	Noncanonical BMP Signaling Regulates Cyclooxygenase-2 Transcription. Molecular Endocrinology, 2011, 25, 1006-1017.	3.7	25
59	Amino Acids Activate Mammalian Target of Rapamycin Complex 2 (mTORC2) via PI3K/Akt Signaling. Journal of Biological Chemistry, 2011, 286, 6128-6142.	1.6	164
60	The p38/MK2/Hsp25 Pathway Is Required for BMP-2-Induced Cell Migration. PLoS ONE, 2011, 6, e16477.	1.1	36
61	Simultaneous electrophoretic analysis of proteins of very high and low molecular mass using Trisâ€acetate polyacrylamide gels. Electrophoresis, 2010, 31, 1318-1321.	1.3	47
62	Filamin B Plays a Key Role in Vascular Endothelial Growth Factor-induced Endothelial Cell Motility through Its Interaction with Rac-1 and Vav-2. Journal of Biological Chemistry, 2010, 285, 10748-10760.	1.6	75
63	p38 Regulates Expression of Osteoblast-specific Genes by Phosphorylation of Osterix. Journal of Biological Chemistry, 2010, 285, 31985-31994.	1.6	109
64	Pfkfb3 is transcriptionally upregulated in diabetic mouse liver through proliferative signals. FEBS Journal, 2009, 276, 4555-4568.	2.2	36
65	BMPâ€2 regulation of PTHrP and osteoclastogenic factors during osteoblast differentiation of C2C12 cells. Journal of Cellular Physiology, 2008, 216, 144-152.	2.0	29
66	ERK and p38 pathways regulate amino acid signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 2241-2254.	1.9	44
67	BMP-2 Induces Osterix Expression through Up-regulation of Dlx5 and Its Phosphorylation by p38. Journal of Biological Chemistry, 2008, 283, 3816-3826.	1.6	192
68	BMP2 induction of actin cytoskeleton reorganization and cell migration requires PI3-kinase and Cdc42 activity. Journal of Cell Science, 2008, 121, 3960-3970.	1.2	106
69	Identification of a novel mutation in the PAX9 gene in a family affected by oligodontia and other dental anomalies. European Journal of Oral Sciences, 2007, 115, 427-432.	0.7	42
70	Repression of SOX6 transcriptional activity by SUMO modification. FEBS Letters, 2006, 580, 1215-1221.	1.3	23
71	Sulfation is required for bone morphogenetic protein 2-dependent Id1 induction. Biochemical and Biophysical Research Communications, 2006, 344, 1207-1215.	1.0	8
72	Relationship Between Subclinical Rejection and Genotype, Renal Messenger RNA, and Plasma Protein Transforming Growth Factorâ€“Î²1 Levels. Transplantation, 2006, 81, 1463-1466.	0.5	13

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73	Simultaneous electrophoretic analysis of proteins of very high and low molecular weights using low-percentage acrylamide gel and a gradient SDS-PAGE gel. Electrophoresis, 2006, 27, 3935-3938.	1.3	17
74	Requirement of phosphatidylinositol-4,5-bisphosphate for HERC1-mediated guanine nucleotide release from ARF proteins. FEBS Letters, 2005, 579, 343-348.	1.3	15
75	Myogenin Protein Stability Is Decreased by BMP-2 through a Mechanism Implicating Id1. Journal of Biological Chemistry, 2004, 279, 45766-45772.	1.6	40
76	6-Phosphofructo-2-kinase (pfkfb3) Gene Promoter Contains Hypoxia-inducible Factor-1 Binding Sites Necessary for Transactivation in Response to Hypoxia. Journal of Biological Chemistry, 2004, 279, 53562-53570.	1.6	213
77	BMP-2 decreases Mash1 stability by increasing Id1 expression. EMBO Journal, 2004, 23, 3527-3537.	3.5	97
78	Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelonaâ€™s treated water (Spain). Journal of Chromatography A, 2004, 1034, 175-182.	1.8	21
79	cAMP inhibits TGFÎ²1-induced in vitro angiogenesis. FEBS Letters, 2004, 569, 105-111.	1.3	19
80	The giant protein HERC1 is recruited to aluminum fluoride-induced actin-rich surface protrusions in HeLa cells. FEBS Letters, 2004, 559, 77-83.	1.3	9
81	Interaction between HERC1 and M2-type pyruvate kinase. FEBS Letters, 2003, 539, 78-84.	1.3	35
82	Regulation of ubiquitous 6-phosphofructo-2-kinase by the ubiquitin-proteasome proteolytic pathway during myogenic C2C12 cell differentiation. FEBS Letters, 2003, 550, 23-29.	1.3	30
83	Decorin Reverses the Repressive Effect of Autocrine-Produced TGF-Î² on Mouse Macrophage Activation. Journal of Immunology, 2003, 170, 4450-4456.	0.4	59
84	Induction of the Sry-Related Factor SOX6 Contributes to Bone Morphogenetic Protein-2-Induced Chondroblastic Differentiation of C3H10T1/2 Cells. Molecular Endocrinology, 2003, 17, 1332-1343.	3.7	40
85	Direct Binding of Smad1 and Smad4 to Two Distinct Motifs Mediates Bone Morphogenetic Protein-specific Transcriptional Activation ofId1 Gene. Journal of Biological Chemistry, 2002, 277, 3176-3185.	1.6	260
86	Inhibition of PI3K/p70 S6K and p38 MAPK cascades increases osteoblastic differentiation induced by BMP-2. FEBS Letters, 2002, 510, 99-104.	1.3	118
87	TGF-Î²1 increases tyrosine hydroxylase expression by a mechanism blocked by BMP-2 in human neuroblastoma SH-SY5Y cells. Brain Research, 2002, 958, 152-160.	1.1	22
88	Enhanced antioxidant defenses and resistance to TNF-Î± in a glycolysis-depleted lung epithelial cell line. Free Radical Biology and Medicine, 2002, 33, 1409-1418.	1.3	8
89	The human ubiquitous 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene (PFKFB3): promoter characterization and genomic structure. Gene, 2001, 264, 131-138.	1.0	37
90	HERC3 binding to and regulation by ubiquitin. FEBS Letters, 2001, 488, 74-80.	1.3	33

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91	Overexpression of fructose 2,6-bisphosphatase decreases glycolysis and delays cell cycle progression. American Journal of Physiology - Cell Physiology, 2000, 279, C1359-C1365.	2.1	26
92	Interaction and Functional Cooperation of NF-Î¹B with Smads. Journal of Biological Chemistry, 2000, 275, 28937-28946.	1.6	106
93	6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase expression in rat brain during development. Molecular Brain Research, 2000, 75, 138-142.	2.5	15
94	The human HERC3 gene maps<footref rid="foot01">¹</footref> to chromosome 4q21 by fluorescence in situ hybridization. Cytogenetic and Genome Research, 1999, 87, 263-264.	0.6	5
95	Bone morphogenetic protein-2 promotes dissociated effects on the number and differentiation of cultured ventral mesencephalic dopaminergic neurons. Journal of Neurobiology, 1999, 38, 161-170.	3.7	53
96	Assignment of the human P532 gene (HERC1) to chromosome 15q22 by fluorescence in situ hybridization. Cytogenetic and Genome Research, 1999, 86, 68-69.	0.6	9
97	Exposure of foetal mesencephalic cells to bone morphogenetic protein-2 enhances the survival of dopaminergic neurones in rat striatal grafts. Neuroscience Letters, 1999, 275, 13-16.	1.0	28
98	A zinc-finger transcription factor induced by TGF-Î² promotes apoptotic cell death in epithelial Mv1Lu cells. FEBS Letters, 1999, 457, 478-482.	1.3	94
99	Bone morphogenetic protein-2 promotes dissociated effects on the number and differentiation of cultured ventral mesencephalic dopaminergic neurons. , 1999, 38, 161.		8
100	Identification of 1,3-Dioxanes and 1,3-Dioxolanes as Malodorous Compounds at Trace Levels in River Water, Groundwater, and Tap Water. Environmental Science & Technology, 1998, 32, 206-216.	4.6	37
101	Molecular cloning, expression, and chromosomal localization of a ubiquitously expressed human 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase gene (PFKFB3). Cytogenetic and Genome Research, 1998, 83, 214-217.	0.6	71
102	JunB Is Involved in the Inhibition of Myogenic Differentiation by Bone Morphogenetic Protein-2. Journal of Biological Chemistry, 1998, 273, 537-543.	1.6	94
103	Determination of Dicyclopentadiene and Its Derivatives as Compounds Causing Odors in Groundwater Supplies. Environmental Science & Technology, 1997, 31, 2368-2374.	4.6	27
104	Polychlorinated naphthalenes in groundwater samples from the Llobregat aquifer (Spain). Journal of Chromatography A, 1997, 786, 135-144.	1.8	30
105	Interaction of Transforming Growth Factor-Î² Receptor I with Farnesyl-protein Transferase-Î± in Yeast and Mammalian Cells. Journal of Biological Chemistry, 1996, 271, 13931-13934.	1.6	44
106	Human Type II Receptor for Bone Morphogenic Proteins (BMPs): Extension of the Two-Kinase Receptor Model to the BMPs. Molecular and Cellular Biology, 1995, 15, 3479-3486.	1.1	553
107	Role of the N-terminal region in covalent modification of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase: comparison of phosphorylation and ADP-ribosylation. Biochemical Journal, 1995, 309, 119-125.	1.7	5
108	Cloning and Expression of a Catalytic Core Bovine Brain 6-Phosphofructo-2-Kinase/Fructose-2,6-Bisphosphatase. Biochemical and Biophysical Research Communications, 1995, 209, 1140-1148.	1.0	25

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109	Reconstitution and transphosphorylation of TGF-beta receptor complexes.. EMBO Journal, 1994, 13, 5581-5589.	3.5	73
110	Characterization and Cloning of a Receptor for BMP-2 and BMP-4 from NIH 3T3 Cells. Molecular and Cellular Biology, 1994, 14, 5961-5974.	1.1	337
111	c-met mRNA overexpression in human hepatocellular carcinoma. Hepatology, 1994, 19, 88-91.	3.6	119
112	Mechanism of activation of the TGF-Î² receptor. Nature, 1994, 370, 341-347.	13.7	2,237
113	Type I receptors specify growth-inhibitory and transcriptional responses to transforming growth factor beta and activin.. Molecular and Cellular Biology, 1994, 14, 3810-3821.	1.1	378
114	c-met mRNA overexpression in human hepatocellular carcinoma. Hepatology, 1994, 19, 88-91.	3.6	7
115	Identification of human activin and TGFÎ² type I receptors that form heteromeric kinase complexes with type II receptors. Cell, 1993, 75, 671-680.	13.5	656
116	Fructose 2,6-bisphosphate in developing rat brain. Developmental Brain Research, 1992, 66, 274-276.	2.1	5
117	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase in rat brain. Biochemical Journal, 1991, 276, 455-460.	1.7	21
118	Fructose 2, 6-Bisphosphate in Hypoglycemic Rat Brain. Journal of Neurochemistry, 1991, 57, 200-203.	2.1	14
119	Oral administration of vanadate to streptozotocin-diabetic rats restores the glucose-induced activation of liver glycogen synthase. Biochemical Journal, 1990, 267, 269-271.	1.7	59
120	Fructose 2,6-bisphosphate and 6-phosphofructo-2-kinase during liver regeneration. Biochemical Journal, 1990, 270, 645-649.	1.7	21