Pablo PelegrÃ-n

List of Publications by Year
in descending order

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123	11,673	28274	30087
papers	citations	55 h-index	103 g-index

135	135	135	13524
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pannexin-1 mediates large pore formation and interleukin-1Î² release by the ATP-gated P2X7 receptor. EMBO Journal, 2006, 25, 5071-5082.	7.8	1,261
2	The gasdermins, a protein family executing cell death and inflammation. Nature Reviews Immunology, 2020, 20, 143-157.	22.7	881
3	The NLRP3 inflammasome is released as a particulate danger signal that amplifies the inflammatory response. Nature Immunology, 2014, 15, 738-748.	14.5	668
4	P2X7 Receptor Differentially Couples to Distinct Release Pathways for IL-1Î² in Mouse Macrophage. Journal of Immunology, 2008, 180, 7147-7157.	0.8	377
5	Cell Volume Regulation Modulates NLRP3 Inflammasome Activation. Immunity, 2012, 37, 487-500.	14.3	326
6	MCC950 closes the active conformation of NLRP3 to an inactive state. Nature Chemical Biology, 2019, 15, 560-564.	8.0	282
7	Pannexin-1 Couples to Maitotoxin- and Nigericin-induced Interleukin-1Î² Release through a Dye Uptake-independent Pathway. Journal of Biological Chemistry, 2007, 282, 2386-2394.	3.4	267
8	Hepatocyte pyroptosis and release of inflammasome particles induce stellate cell activation and liver fibrosis. Journal of Hepatology, 2021, 74, 156-167.	3.7	264
9	Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. Nature Immunology, 2016, 17, 1037-1045.	14.5	259
10	Pharmacological Characterization of Pannexin-1 Currents Expressed in Mammalian Cells. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 409-418.	2.5	243
11	Dynamics of macrophage polarization reveal new mechanism to inhibit IL-1Î² release through pyrophosphates. EMBO Journal, 2009, 28, 2114-2127.	7.8	236
12	Inflammasome-dependent IL-1Î² release depends upon membrane permeabilisation. Cell Death and Differentiation, 2016, 23, 1219-1231.	11.2	214
13	AIM2 and NLRC4 inflammasomes contribute with ASC to acute brain injury independently of NLRP3. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4050-4055.	7.1	211
14	NLRP3 and pyroptosis blockers for treating inflammatory diseases. Trends in Pharmacological Sciences, 2022, 43, 653-668.	8.7	193
15	P2X7 receptor activation enhances SK3 channels- and cystein cathepsin-dependent cancer cells invasiveness. Oncogene, 2011, 30, 2108-2122.	5.9	180
16	The NLRP3 and Pyrin Inflammasomes: Implications in the Pathophysiology of Autoinflammatory Diseases. Frontiers in Immunology, 2017, 8, 43.	4.8	176
17	The P2X7 receptorâ€“pannexin connection to dye uptake and IL-1Î² release. Purinergic Signalling, 2009, 5, 129-137.	2.2	157
18	The participation of plasma membrane hemichannels to purinergic signaling. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 79-93.	2.6	151

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19	P2X7 receptor induces mitochondrial failure in monocytes and compromises NLRP3 inflammasome activation during sepsis. Nature Communications, 2019, 10, 2711.	12.8	148
20	Inflammasomes in Liver Fibrosis. Seminars in Liver Disease, 2017, 37, 119-127.	3.6	143
21	Phylogeny of cytokines: molecular cloning and expression analysis of sea bass Dicentrarchus labrax interleukin-1Î². Fish and Shellfish Immunology, 2001, 11, 711-726.	3.6	140
22	Development of an Acrylate Derivative Targeting the NLRP3 Inflammasome for the Treatment of Inflammatory Bowel Disease. Journal of Medicinal Chemistry, 2017, 60, 3656-3671.	6.4	131
23	Chloride regulates dynamic NLRP3-dependent ASC oligomerization and inflammasome priming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9371-E9380.	7.1	131
24	Molecular cloning and expression analysis of tumor necrosis factor Î± from a marine fish reveal its constitutive expression and ubiquitous nature. Immunogenetics, 2002, 54, 200-207.	2.4	126
25	Early innate immune response and redistribution of inflammatory cells in the bony fish gilthead seabream experimentally infected with Vibrio anguillarum. Cell and Tissue Research, 2005, 320, 61-68.	2.9	126
26	Extracellular ATP Activates the NLRP3 Inflammasome and Is an Early Danger Signal of Skin Allograft Rejection. Cell Reports, 2017, 21, 3414-3426.	6.4	126
27	P2X7 receptorâ€stimulation causes fever via PGE2 and ILâ€1Î² release. FASEB Journal, 2012, 26, 2951-2962.	0.5	123
28	NLRP3 cages revealed by full-length mouse NLRP3 structure control pathway activation. Cell, 2021, 184, 6299-6312.e22.	28.9	120
29	Characterisation of gilthead seabream acidophilic granulocytes by a monoclonal antibody unequivocally points to their involvement in fish phagocytic response. Cell and Tissue Research, 2002, 308, 97-102.	2.9	118
30	A novel Pyrin-Associated Autoinflammation with Neutrophilic Dermatosis mutation further defines 14-3-3 binding of pyrin and distinction to Familial Mediterranean Fever. Annals of the Rheumatic Diseases, 2017, 76, 2085-2094.	0.9	118
31	Facilitation of P2X7 Receptor Currents and Membrane Blebbing via Constitutive and Dynamic Calmodulin Binding. Journal of Neuroscience, 2008, 28, 6393-6401.	3.6	109
32	Neutrophils mediate Salmonella Typhimurium clearance through the GBP4 inflammasome-dependent production of prostaglandins. Nature Communications, 2016, 7, 12077.	12.8	109
33	Macrophage activation and polarization modify P2X7 receptor secretome influencing the inflammatory process. Scientific Reports, 2016, 6, 22586.	3.3	109
34	Late-Onset Cryopyrin-Associated Periodic Syndromes Caused by Somatic NLRP3 Mosaicismâ€"UK Single Center Experience. Frontiers in Immunology, 2017, 8, 1410.	4.8	109
35	NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. Nature Communications, 2018, 9, 5182.	12.8	102
36	P2X7 Receptor-Mediated Release of Cathepsins from Macrophages Is a Cytokine-Independent Mechanism Potentially Involved in Joint Diseases. Journal of Immunology, 2010, 185, 2611-2619.	0.8	99

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37	Amino Acid Residues in the P2X7 Receptor that Mediate Differential Sensitivity to ATP and BzATP. Molecular Pharmacology, 2007, 71, 92-100.	2.3	98
38	Lipin-2 regulates NLRP3 inflammasome by affecting P2X7 receptor activation. Journal of Experimental Medicine, 2017, 214, 511-528.	8.5	92
39	NLRP3 inflammasome as prognostic factor and therapeutic target in primary progressive multiple sclerosis patients. Brain, 2020, 143, 1414-1430.	7.6	92
40	The inflammasome in host response to biomaterials: Bridging inflammation and tissue regeneration. Acta Biomaterialia, 2019, 83, 1-12.	8.3	84
41	P2X7 receptor and the NLRP3 inflammasome: Partners in crime. Biochemical Pharmacology, 2021, 187, 114385.	4.4	84
42	INTERLEUKIN-1Î² ISOLATED FROM A MARINE FISH REVEALS UP-REGULATED EXPRESSION IN MACROPHAGES FOLLOWING ACTIVATION WITH LIPOPOLYSACCHARIDE AND LYMPHOKINES. Cytokine, 2001, 16, 67-72.	3.2	83
43	Apoptosis-Associated Speck-like Protein Containing a CARD Forms Specks but Does Not Activate Caspase-1 in the Absence of NLRP3 during Macrophage Swelling. Journal of Immunology, 2015, 194, 1261-1273.	0.8	83
44	Understanding the roles of the P2X7 receptor in solid tumour progression and therapeutic perspectives. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2584-2602.	2.6	80
45	Production and mechanism of secretion of interleukin-1Î² from the marine fish gilthead seabream. Developmental and Comparative Immunology, 2004, 28, 229-237.	2.3	79
46	The tumor necrosis factor a of the bony fish seabream exhibits the in vivo proinflammatory and proliferative activities of its mammalian counterparts, yet it functions in a species-specific manner. Cellular and Molecular Life Sciences, 2004, 61, 1331-1340.	5.4	77
47	Cardiolipin in Immune Signaling and Cell Death. Trends in Cell Biology, 2020, 30, 892-903.	7.9	75
48	Novel macrophage polarization model: from gene expression to identification of new anti-inflammatory molecules. Cellular and Molecular Life Sciences, 2011, 68, 3095-3107.	5.4	72
49	Brief Report: Lateâ€Onset Cryopyrinâ€Associated Periodic Syndrome Due to Myeloidâ€Restricted Somatic NLRP3 Mosaicism. Arthritis and Rheumatology, 2016, 68, 3035-3041.	5.6	72
50	Current status of inflammasome blockers as anti-inflammatory drugs. Expert Opinion on Investigational Drugs, 2012, 21, 995-1007.	4.1	67
51	ATP Modulates Acute Inflammation In Vivo through Dual Oxidase 1â€“Derived H2O2 Production and NF-ÎºB Activation. Journal of Immunology, 2014, 192, 5710-5719.	0.8	66
52	Sensing low intracellular potassium by NLRP3 results in a stable open structure that promotes inflammasome activation. Science Advances, 2021, 7, eabf4468.	10.3	65
53	Ion homeostasis and ion channels in NLRP3 inflammasome activation and regulation. Current Opinion in Immunology, 2018, 52, 8-17.	5.5	64
54	Many ways to dilate the P2X7 receptor pore. British Journal of Pharmacology, 2011, 163, 908-911.	5.4	63

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55	C-terminal Calmodulin-binding Motif Differentially Controls Human and Rat P2X7 Receptor Current Facilitation. Journal of Biological Chemistry, 2010, 285, 17514-17524.	3.4	60
56	Molecular and functional characterization of gilthead seabream Sparus aurata caspase-1: The first identification of an inflammatory caspase in fish. Molecular Immunology, 2008, 45, 49-57.	2.2	59
57	Emerging Role of the Inflammasome and Pyroptosis in Hypertension. International Journal of Molecular Sciences, 2021, 22, 1064.	4.1	59
58	Acidophilic granulocytes of the marine fish gilthead seabream (Sparus aurata L.) produce interleukin-1ï¿½ following infection with Vibrio anguillarum. Cell and Tissue Research, 2004, 316, 189-195.	2.9	58
59	P2X7 receptor antagonism in the treatment of cancers. Expert Opinion on Investigational Drugs, 2011, 20, 875-880.	4.1	58
60	Targeting Interleukin-1 Signaling in Chronic Inflammation: Focus on P2X7 Receptor and Pannexin-1. , 2008, 21, 424.		58
61	SCN4B acts as a metastasis-suppressor gene preventing hyperactivation of cell migration in breast cancer. Nature Communications, 2016, 7, 13648.	12.8	57
62	A role for acidophilic granulocytes in the testis of the gilthead seabream (Sparus aurata L., Teleostei). Journal of Endocrinology, 2003, 179, 165-174.	2.6	56
63	Pannexinâ€1â€dependent caspaseâ€1 activation and secretion of ILâ€1Î² is regulated by zinc. European Journal of Immunology, 2009, 39, 352-358.	2.9	52
64	P2X7 Receptor-Dependent Intestinal Afferent Hypersensitivity in a Mouse Model of Postinfectious Irritable Bowel Syndrome. Journal of Immunology, 2011, 187, 1467-1474.	0.8	51
65	P2X7 Receptor Induces Tumor Necrosis Factor-Î± Converting Enzyme Activation and Release to Boost TNF-Î± Production. Frontiers in Immunology, 2017, 8, 862.	4.8	49
66	The inflammasome pathway in stable COPD and acute exacerbations. ERJ Open Research, 2016, 2, 00002-2016.	2.6	47
67	Involvement of the P2X7-NLRP3 axis in leukemic cell proliferation and death. Scientific Reports, 2016, 6, 26280.	3.3	47
68	Identification of Thr283 as a key determinant of P2X7 receptor function. British Journal of Pharmacology, 2006, 149, 261-268.	5.4	46
69	RACK1 Mediates NLRP3 Inflammasome Activation by Promoting NLRP3 Active Conformation and Inflammasome Assembly. Cell Reports, 2020, 33, 108405.	6.4	44
70	Gasdermins mediate cellular release of mitochondrial DNA during pyroptosis and apoptosis. FASEB Journal, 2021, 35, e21757.	0.5	44
71	M1 and M2 Functional Imprinting of Primary Microglia: Role of P2X7 Activation and miR-125b. Mediators of Inflammation, 2016, 2016, 1-9.	3.0	43
72	Severe Autoinflammatory Manifestations and Antibody Deficiency Due to Novel Hypermorphic PLCG2 Mutations. Journal of Clinical Immunology, 2020, 40, 987-1000.	3.8	41

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73	An emerging case for membrane pore formation as a common mechanism for the unconventional secretion of FGF2 and IL-1Î². Journal of Cell Science, 2017, 130, 3197-3202.	2.0	39
74	Purinergic signaling during macrophage differentiation results in M2 alternative activated macrophages. Journal of Leukocyte Biology, 2016, 99, 289-299.	3.3	35
75	Evolutionary analyses of the gasdermin family suggest conserved roles in infection response despite loss of pore-forming functionality. BMC Biology, 2022, 20, 9.	3.8	35
76	Modulating P2X7 Receptor Signaling during Rheumatoid Arthritis: New Therapeutic Approaches for Bisphosphonates. Journal of Osteoporosis, 2012, 2012, 1-7.	0.5	34
77	Lytic cell death induced by melittin bypasses pyroptosis but induces NLRP3 inflammasome activation and IL-1Î² release. Cell Death and Disease, 2017, 8, e2984-e2984.	6.3	34
78	Extracellular Granzyme A Promotes Colorectal Cancer Development by Enhancing Gut Inflammation. Cell Reports, 2020, 32, 107847.	6.4	34
79	Aquaporin-3 is involved in NLRP3-inflammasome activation contributing to the setting of inflammatory response. Cellular and Molecular Life Sciences, 2021, 78, 3073-3085.	5.4	34
80	Saturation of acyl chains converts cardiolipin from an antagonist to an activator of Toll-like receptor-4. Cellular and Molecular Life Sciences, 2019, 76, 3667-3678.	5.4	31
81	A fish cell surface receptor defined by a mAb mediates leukocyte aggregation and deactivation. Developmental and Comparative Immunology, 2001, 25, 619-627.	2.3	28
82	Identification of an ASC oligomerization inhibitor for the treatment of inflammatory diseases. Cell Death and Disease, 2021, 12, 1155.	6.3	27
83	A Genetically Encoded IL-1Î² Bioluminescence Resonance Energy Transfer Sensor To Monitor Inflammasome Activity. Journal of Immunology, 2012, 189, 2131-2137.	0.8	26
84	3D chitosan scaffolds impair NLRP3 inflammasome response in macrophages. Acta Biomaterialia, 2019, 91, 123-134.	8.3	26
85	Pyroptosis and Redox Balance in Kidney Diseases. Antioxidants and Redox Signaling, 2021, 35, 40-60.	5.4	26
86	CD14 release induced by P2X7 receptor restricts inflammation and increases survival during sepsis. ELife, 2020, 9, .	6.0	26
87	Involvement of P2X7 receptor in neuronal degeneration triggered by traumatic injury. Scientific Reports, 2016, 6, 38499.	3.3	23
88	2-Methoxyestradiol in the Pathophysiology of Endometriosis: Focus on Angiogenesis and Therapeutic Potential. Reproductive Sciences, 2012, 19, 1018-1029.	2.5	22
89	Early endosome autoantigen 1 regulates IL-1Î² release upon caspase-1 activation independently of gasdermin D membrane permeabilization. Scientific Reports, 2019, 9, 5788.	3.3	22
90	Increased expression of the ATPâ€gated P2X7 receptor reduces responsiveness to antiâ€convulsants during status epilepticus in mice. British Journal of Pharmacology, 2022, 179, 2986-3006.	5.4	20

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91	P2X7 receptors mediate resistance to toxin-induced cell lysis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 915-922.	4.1	19
92	Extracellular adenosine reversibly inhibits the activation of human regulatory T cells and negatively influences the achievement of the operational tolerance in liver transplantation. American Journal of Transplantation, 2019, 19, 48-61.	4.7	19
93	Soluble P2X7 Receptor Is Elevated in the Plasma of COVID-19 Patients and Correlates With Disease Severity. Frontiers in Immunology, 0, 13, .	4.8	19
94	Intestinal secretory and absorptive function in Trichinella spiralis mouse model of postinfective gut dysfunction: role of bile acids. Gut, 2007, 57, 41-49.	12.1	17
95	Purinergic receptors and the inflammatory response mediated by lipids. Current Opinion in Pharmacology, 2019, 47, 90-96.	3.5	17
96	Physiological and pathophysiological functions of NLRP6: pro- and anti-inflammatory roles. Communications Biology, 2022, 5, .	4.4	17
97	Signaling Through Purinergic Receptor P2Y2 Enhances Macrophage IL-1Î² Production. International Journal of Molecular Sciences, 2020, 21, 4686.	4.1	16
98	NLRP3 Inflammasome and Pyroptosis in Liver Pathophysiology: The Emerging Relevance of Nrf2 Inducers. Antioxidants, 2022, 11, 870.	5.1	15
99	Measuring NLR Oligomerization III: Detection of NLRP3 Complex by Bioluminescence Resonance Energy Transfer. Methods in Molecular Biology, 2016, 1417, 159-168.	0.9	14
100	Isolation of functional mature peritoneal macrophages from healthy humans. Immunology and Cell Biology, 2020, 98, 114-126.	2.3	14
101	Techniques to Study Inflammasome Activation and Inhibition by Small Molecules. Molecules, 2021, 26, 1704.	3.8	11
102	First Description of <scp>Lateâ€Onset</scp> Autoinflammatory Disease Due to Somatic <scp>NLRC4</scp> Mosaicism. Arthritis and Rheumatology, 2022, 74, 692-699.	5.6	10
103	P2X7 Receptor Activation Impairs Exogenous MHC Class I Oligopeptides Presentation in Antigen Presenting Cells. PLoS ONE, 2013, 8, e70577.	2.5	9
104	NLRP3 at the crossroads between immune/inflammatory responses and enteric neuroplastic remodelling in a mouse model of dietâ€induced obesity. British Journal of Pharmacology, 2021, 178, 3924-3942.	5.4	9
105	Isolation of Particles of Recombinant ASC and NLRP3. Bio-protocol, 2015, 5, .	0.4	9
106	Extracellular NLRP3 inflammasome particles are internalized by human coronary artery smooth muscle cells and induce pro-atherogenic effects. Scientific Reports, 2021, 11, 15156.	3.3	8
107	Galvanic current activates the NLRP3 inflammasome to promote Type I collagen production in tendon. ELife, 2022, 11, .	6.0	8
108	Characterization of Novel Pathogenic Variants Leading to Caspase-8 Cleavage-Resistant RIPK1-Induced Autoinflammatory Syndrome. Journal of Clinical Immunology, 2022, 42, 1421-1432.	3.8	8

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109	Ion Channels in Inflammatory Processes: What Is Known and What Is Next?. Mediators of Inflammation, 2016, 2016, 1-1.	3.0	7
110	WDR90 is a new component of the NLRC4 inflammasome involved in Salmonella Typhimurium resistance. Developmental and Comparative Immunology, 2019, 100, 103428.	2.3	6
111	Editorial overview: Purinergic P2X receptors in innate immunity and inflammation. Current Opinion in Pharmacology, 2019, 47, 141-144.	3.5	4
112	Detection of Inflammasome Activation by P2X7 Purinoceptor Activation by Determining ASC Oligomerization. Methods in Molecular Biology, 2020, 2041, 335-343.	0.9	4
113	Inflammasome Activation by Danger Signals. , 2011, , 101-121.		4
114	Measuring IL-1Î² Processing by Bioluminescence Sensors I: Using a Bioluminescence Resonance Energy Transfer Biosensor. Methods in Molecular Biology, 2016, 1417, 89-95.	0.9	3
115	Reprogramming macrophages by plasmin. Blood, 2017, 129, 2823-2824.	1.4	3
116	Assessment of ASC Oligomerization by Flow Cytometry. Methods in Molecular Biology, 2022, 2459, 1-9.	0.9	2
117	ASC nanobodies to counteract the consequences of inflammasome activation. EMBO Molecular Medicine, 2022, 14, e16087.	6.9	2
118	Response to Boyle etÂal.. Immunity, 2013, 38, 400-401.	14.3	1
119	Methods to Study Cell Swelling-Induced Inflammasome Activation. Methods in Molecular Biology, 2018, 1714, 191-197.	0.9	1
120	Assessment of Cell Adhesion After Purinoceptor Activation. Methods in Molecular Biology, 2020, 2041, 351-358.	0.9	1
121	Editorial overview: Ion channels and immune cells: What ions could do for immune cells. Current Opinion in Immunology, 2018, 52, vi-viii.	5.5	0
122	NLRP3 inflammasome activation in hepatocytes results in pyroptotic cell death, release of NLRP3 particles and liver fibrosis. Journal of Hepatology, 2018, 68, S31-S32.	3.7	0
123	Integrated Transcriptomic and Proteomic Analyses of Inflammasome in Myelodysplastic Syndromes and Chronic Myelomonocytic Leukemia. Blood, 2019, 134, 2991-2991.	1.4	0