

# Pablo Pelegrín

## List of Publications by Year in descending order

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123  
papers

11,673  
citations

28190

55  
h-index

30010

103  
g-index

135  
all docs

135  
docs citations

135  
times ranked

13524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pannexin-1 mediates large pore formation and interleukin-1 $\beta$ release by the ATP-gated P2X7 receptor. <i>EMBO Journal</i> , 2006, 25, 5071-5082.	3.5	1,261
2	The gasdermins, a protein family executing cell death and inflammation. <i>Nature Reviews Immunology</i> , 2020, 20, 143-157.	10.6	881
3	The NLRP3 inflammasome is released as a particulate danger signal that amplifies the inflammatory response. <i>Nature Immunology</i> , 2014, 15, 738-748.	7.0	668
4	P2X7 Receptor Differentially Couples to Distinct Release Pathways for IL-1 $\beta$ in Mouse Macrophage. <i>Journal of Immunology</i> , 2008, 180, 7147-7157.	0.4	377
5	Cell Volume Regulation Modulates NLRP3 Inflammasome Activation. <i>Immunity</i> , 2012, 37, 487-500.	6.6	326
6	MCC950 closes the active conformation of NLRP3 to an inactive state. <i>Nature Chemical Biology</i> , 2019, 15, 560-564.	3.9	282
7	Pannexin-1 Couples to Maitotoxin- and Nigericin-induced Interleukin-1 $\beta$ Release through a Dye Uptake-independent Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 2386-2394.	1.6	267
8	Hepatocyte pyroptosis and release of inflammasome particles induce stellate cell activation and liver fibrosis. <i>Journal of Hepatology</i> , 2021, 74, 156-167.	1.8	264
9	Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. <i>Nature Immunology</i> , 2016, 17, 1037-1045.	7.0	259
10	Pharmacological Characterization of Pannexin-1 Currents Expressed in Mammalian Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 409-418.	1.3	243
11	Dynamics of macrophage polarization reveal new mechanism to inhibit IL-1 $\beta$ release through pyrophosphates. <i>EMBO Journal</i> , 2009, 28, 2114-2127.	3.5	236
12	Inflammasome-dependent IL-1 $\beta$ release depends upon membrane permeabilisation. <i>Cell Death and Differentiation</i> , 2016, 23, 1219-1231.	5.0	214
13	AIM2 and NLRC4 inflammasomes contribute with ASC to acute brain injury independently of NLRP3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4050-4055.	3.3	211
14	NLRP3 and pyroptosis blockers for treating inflammatory diseases. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 653-668.	4.0	193
15	P2X7 receptor activation enhances SK3 channels- and cystein cathepsin-dependent cancer cells invasiveness. <i>Oncogene</i> , 2011, 30, 2108-2122.	2.6	180
16	The NLRP3 and Pysin Inflammasomes: Implications in the Pathophysiology of Autoinflammatory Diseases. <i>Frontiers in Immunology</i> , 2017, 8, 43.	2.2	176
17	The P2X7 receptor's pannexin connection to dye uptake and IL-1 $\beta$ release. <i>Purinergic Signalling</i> , 2009, 5, 129-137.	1.1	157
18	The participation of plasma membrane hemichannels to purinergic signaling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 79-93.	1.4	151

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19	P2X7 receptor induces mitochondrial failure in monocytes and compromises NLRP3 inflammasome activation during sepsis. <i>Nature Communications</i> , 2019, 10, 2711.	5.8	148
20	Inflammasomes in Liver Fibrosis. <i>Seminars in Liver Disease</i> , 2017, 37, 119-127.	1.8	143
21	Phylogeny of cytokines: molecular cloning and expression analysis of sea bass <i>Dicentrarchus labrax</i> interleukin-1 $\beta$ . <i>Fish and Shellfish Immunology</i> , 2001, 11, 711-726.	1.6	140
22	Development of an Acrylate Derivative Targeting the NLRP3 Inflammasome for the Treatment of Inflammatory Bowel Disease. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3656-3671.	2.9	131
23	Chloride regulates dynamic NLRP3-dependent ASC oligomerization and inflammasome priming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9371-E9380.	3.3	131
24	Molecular cloning and expression analysis of tumor necrosis factor $\beta$ from a marine fish reveal its constitutive expression and ubiquitous nature. <i>Immunogenetics</i> , 2002, 54, 200-207.	1.2	126
25	Early innate immune response and redistribution of inflammatory cells in the bony fish gilthead seabream experimentally infected with <i>Vibrio anguillarum</i> . <i>Cell and Tissue Research</i> , 2005, 320, 61-68.	1.5	126
26	Extracellular ATP Activates the NLRP3 Inflammasome and Is an Early Danger Signal of Skin Allograft Rejection. <i>Cell Reports</i> , 2017, 21, 3414-3426.	2.9	126
27	P2X7 receptor stimulation causes fever <i>via</i> PGE2 and IL-1 $\beta$ release. <i>FASEB Journal</i> , 2012, 26, 2951-2962.	0.2	123
28	NLRP3 cages revealed by full-length mouse NLRP3 structure control pathway activation. <i>Cell</i> , 2021, 184, 6299-6312.e22.	13.5	120
29	Characterisation of gilthead seabream acidophilic granulocytes by a monoclonal antibody unequivocally points to their involvement in fish phagocytic response. <i>Cell and Tissue Research</i> , 2002, 308, 97-102.	1.5	118
30	A novel Pyrin-Associated Autoinflammation with Neutrophilic Dermatitis mutation further defines 14-3-3 binding of pyrin and distinction to Familial Mediterranean Fever. <i>Annals of the Rheumatic Diseases</i> , 2017, 76, 2085-2094.	0.5	118
31	Facilitation of P2X7 Receptor Currents and Membrane Blebbing via Constitutive and Dynamic Calmodulin Binding. <i>Journal of Neuroscience</i> , 2008, 28, 6393-6401.	1.7	109
32	Neutrophils mediate <i>Salmonella Typhimurium</i> clearance through the GBP4 inflammasome-dependent production of prostaglandins. <i>Nature Communications</i> , 2016, 7, 12077.	5.8	109
33	Macrophage activation and polarization modify P2X7 receptor secretome influencing the inflammatory process. <i>Scientific Reports</i> , 2016, 6, 22586.	1.6	109
34	Late-Onset Cryopyrin-Associated Periodic Syndromes Caused by Somatic NLRP3 Mosaicism—UK Single Center Experience. <i>Frontiers in Immunology</i> , 2017, 8, 1410.	2.2	109
35	NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. <i>Nature Communications</i> , 2018, 9, 5182.	5.8	102
36	P2X7 Receptor-Mediated Release of Cathepsins from Macrophages Is a Cytokine-Independent Mechanism Potentially Involved in Joint Diseases. <i>Journal of Immunology</i> , 2010, 185, 2611-2619.	0.4	99

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37	Amino Acid Residues in the P2X7 Receptor that Mediate Differential Sensitivity to ATP and BzATP. <i>Molecular Pharmacology</i> , 2007, 71, 92-100.	1.0	98
38	Lipin-2 regulates NLRP3 inflammasome by affecting P2X7 receptor activation. <i>Journal of Experimental Medicine</i> , 2017, 214, 511-528.	4.2	92
39	NLRP3 inflammasome as prognostic factor and therapeutic target in primary progressive multiple sclerosis patients. <i>Brain</i> , 2020, 143, 1414-1430.	3.7	92
40	The inflammasome in host response to biomaterials: Bridging inflammation and tissue regeneration. <i>Acta Biomaterialia</i> , 2019, 83, 1-12.	4.1	84
41	P2X7 receptor and the NLRP3 inflammasome: Partners in crime. <i>Biochemical Pharmacology</i> , 2021, 187, 114385.	2.0	84
42	INTERLEUKIN-1 $\beta$ ISOLATED FROM A MARINE FISH REVEALS UP-REGULATED EXPRESSION IN MACROPHAGES FOLLOWING ACTIVATION WITH LIPOPOLYSACCHARIDE AND LYMPHOKINES. <i>Cytokine</i> , 2001, 16, 67-72.	1.4	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. <i>Journal of Immunology</i> , 2015, 194, 1261-1273.	0.4	83
44	Understanding the roles of the P2X7 receptor in solid tumour progression and therapeutic perspectives. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2584-2602.	1.4	80
45	Production and mechanism of secretion of interleukin-1 $\beta$ from the marine fish gilthead seabream. <i>Developmental and Comparative Immunology</i> , 2004, 28, 229-237.	1.0	79
46	The tumor necrosis factor $\alpha$ 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. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 1331-1340.	2.4	77
47	Cardiolipin in Immune Signaling and Cell Death. <i>Trends in Cell Biology</i> , 2020, 30, 892-903.	3.6	75
48	Novel macrophage polarization model: from gene expression to identification of new anti-inflammatory molecules. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 3095-3107.	2.4	72
49	Brief Report: Late Onset Cryopyrin-Associated Periodic Syndrome Due to Myeloid-Restricted Somatic <i>cNLRP3</i> Mosaicism. <i>Arthritis and Rheumatology</i> , 2016, 68, 3035-3041.	2.9	72
50	Current status of inflammasome blockers as anti-inflammatory drugs. <i>Expert Opinion on Investigational Drugs</i> , 2012, 21, 995-1007.	1.9	67
51	ATP Modulates Acute Inflammation In Vivo through Dual Oxidase -Derived H <sub>2</sub> O <sub>2</sub> Production and NF- $\kappa$ B Activation. <i>Journal of Immunology</i> , 2014, 192, 5710-5719.	0.4	66
52	Sensing low intracellular potassium by NLRP3 results in a stable open structure that promotes inflammasome activation. <i>Science Advances</i> , 2021, 7, eabf4468.	4.7	65
53	Ion homeostasis and ion channels in NLRP3 inflammasome activation and regulation. <i>Current Opinion in Immunology</i> , 2018, 52, 8-17.	2.4	64
54	Many ways to dilate the P2X7 receptor pore. <i>British Journal of Pharmacology</i> , 2011, 163, 908-911.	2.7	63

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55	C-terminal Calmodulin-binding Motif Differentially Controls Human and Rat P2X7 Receptor Current Facilitation. <i>Journal of Biological Chemistry</i> , 2010, 285, 17514-17524.	1.6	60
56	Molecular and functional characterization of gilthead seabream <i>Sparus aurata</i> caspase-1: The first identification of an inflammatory caspase in fish. <i>Molecular Immunology</i> , 2008, 45, 49-57.	1.0	59
57	Emerging Role of the Inflammasome and Pyroptosis in Hypertension. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1064.	1.8	59
58	Acidophilic granulocytes of the marine fish gilthead seabream ( <i>Sparus aurata</i> L.) produce interleukin-1 $\beta$ following infection with <i>Vibrio anguillarum</i> . <i>Cell and Tissue Research</i> , 2004, 316, 189-195.	1.5	58
59	P2X7 receptor antagonism in the treatment of cancers. <i>Expert Opinion on Investigational Drugs</i> , 2011, 20, 875-880.	1.9	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. <i>Nature Communications</i> , 2016, 7, 13648.	5.8	57
62	A role for acidophilic granulocytes in the testis of the gilthead seabream ( <i>Sparus aurata</i> L., Teleostei). <i>Journal of Endocrinology</i> , 2003, 179, 165-174.	1.2	56
63	Pannexin $\beta$ -dependent caspase $\beta$ activation and secretion of IL $\beta$ is regulated by zinc. <i>European Journal of Immunology</i> , 2009, 39, 352-358.	1.6	52
64	P2X7 Receptor-Dependent Intestinal Afferent Hypersensitivity in a Mouse Model of Postinfectious Irritable Bowel Syndrome. <i>Journal of Immunology</i> , 2011, 187, 1467-1474.	0.4	51
65	P2X7 Receptor Induces Tumor Necrosis Factor $\alpha$ Converting Enzyme Activation and Release to Boost TNF $\alpha$ Production. <i>Frontiers in Immunology</i> , 2017, 8, 862.	2.2	49
66	The inflammasome pathway in stable COPD and acute exacerbations. <i>ERJ Open Research</i> , 2016, 2, 00002-2016.	1.1	47
67	Involvement of the P2X7-NLRP3 axis in leukemic cell proliferation and death. <i>Scientific Reports</i> , 2016, 6, 26280.	1.6	47
68	Identification of Thr283 as a key determinant of P2X7 receptor function. <i>British Journal of Pharmacology</i> , 2006, 149, 261-268.	2.7	46
69	RACK1 Mediates NLRP3 Inflammasome Activation by Promoting NLRP3 Active Conformation and Inflammasome Assembly. <i>Cell Reports</i> , 2020, 33, 108405.	2.9	44
70	Gasdermins mediate cellular release of mitochondrial DNA during pyroptosis and apoptosis. <i>FASEB Journal</i> , 2021, 35, e21757.	0.2	44
71	M1 and M2 Functional Imprinting of Primary Microglia: Role of P2X7 Activation and miR-125b. <i>Mediators of Inflammation</i> , 2016, 2016, 1-9.	1.4	43
72	Severe Autoinflammatory Manifestations and Antibody Deficiency Due to Novel Hypermorphic PLCG2 Mutations. <i>Journal of Clinical Immunology</i> , 2020, 40, 987-1000.	2.0	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-1 $\beta$ . <i>Journal of Cell Science</i> , 2017, 130, 3197-3202.	1.2	39
74	Purinergic signaling during macrophage differentiation results in M2 alternative activated macrophages. <i>Journal of Leukocyte Biology</i> , 2016, 99, 289-299.	1.5	35
75	Evolutionary analyses of the gasdermin family suggest conserved roles in infection response despite loss of pore-forming functionality. <i>BMC Biology</i> , 2022, 20, 9.	1.7	35
76	Modulating P2X7 Receptor Signaling during Rheumatoid Arthritis: New Therapeutic Approaches for Bisphosphonates. <i>Journal of Osteoporosis</i> , 2012, 2012, 1-7.	0.1	34
77	Lytic cell death induced by melittin bypasses pyroptosis but induces NLRP3 inflammasome activation and IL-1 $\beta$ release. <i>Cell Death and Disease</i> , 2017, 8, e2984-e2984.	2.7	34
78	Extracellular Granzyme A Promotes Colorectal Cancer Development by Enhancing Gut Inflammation. <i>Cell Reports</i> , 2020, 32, 107847.	2.9	34
79	Aquaporin-3 is involved in NLRP3-inflammasome activation contributing to the setting of inflammatory response. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3073-3085.	2.4	34
80	Saturation of acyl chains converts cardiolipin from an antagonist to an activator of Toll-like receptor-4. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3667-3678.	2.4	31
81	A fish cell surface receptor defined by a mAb mediates leukocyte aggregation and deactivation. <i>Developmental and Comparative Immunology</i> , 2001, 25, 619-627.	1.0	28
82	Identification of an ASC oligomerization inhibitor for the treatment of inflammatory diseases. <i>Cell Death and Disease</i> , 2021, 12, 1155.	2.7	27
83	A Genetically Encoded IL-1 $\beta$ Bioluminescence Resonance Energy Transfer Sensor To Monitor Inflammasome Activity. <i>Journal of Immunology</i> , 2012, 189, 2131-2137.	0.4	26
84	3D chitosan scaffolds impair NLRP3 inflammasome response in macrophages. <i>Acta Biomaterialia</i> , 2019, 91, 123-134.	4.1	26
85	Pyroptosis and Redox Balance in Kidney Diseases. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 40-60.	2.5	26
86	CD14 release induced by P2X7 receptor restricts inflammation and increases survival during sepsis. <i>ELife</i> , 2020, 9, .	2.8	26
87	Involvement of P2X7 receptor in neuronal degeneration triggered by traumatic injury. <i>Scientific Reports</i> , 2016, 6, 38499.	1.6	23
88	2-Methoxyestradiol in the Pathophysiology of Endometriosis: Focus on Angiogenesis and Therapeutic Potential. <i>Reproductive Sciences</i> , 2012, 19, 1018-1029.	1.1	22
89	Early endosome autoantigen 1 regulates IL-1 $\beta$ release upon caspase-1 activation independently of gasdermin D membrane permeabilization. <i>Scientific Reports</i> , 2019, 9, 5788.	1.6	22
90	Increased expression of the ATP-gated P2X7 receptor reduces responsiveness to anti-convulsants during status epilepticus in mice. <i>British Journal of Pharmacology</i> , 2022, 179, 2986-3006.	2.7	20

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91	P2X7 receptors mediate resistance to toxin-induced cell lysis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 915-922.	1.9	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. <i>American Journal of Transplantation</i> , 2019, 19, 48-61.	2.6	19
93	Soluble P2X7 Receptor Is Elevated in the Plasma of COVID-19 Patients and Correlates With Disease Severity. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	19
94	Intestinal secretory and absorptive function in <i>Trichinella spiralis</i> mouse model of postinfective gut dysfunction: role of bile acids. <i>Gut</i> , 2007, 57, 41-49.	6.1	17
95	Purinergic receptors and the inflammatory response mediated by lipids. <i>Current Opinion in Pharmacology</i> , 2019, 47, 90-96.	1.7	17
96	Physiological and pathophysiological functions of NLRP6: pro- and anti-inflammatory roles. <i>Communications Biology</i> , 2022, 5, .	2.0	17
97	Signaling Through Purinergic Receptor P2Y2 Enhances Macrophage IL-1 $\beta$ Production. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4686.	1.8	16
98	NLRP3 Inflammasome and Pyroptosis in Liver Pathophysiology: The Emerging Relevance of Nrf2 Inducers. <i>Antioxidants</i> , 2022, 11, 870.	2.2	15
99	Measuring NLR Oligomerization III: Detection of NLRP3 Complex by Bioluminescence Resonance Energy Transfer. <i>Methods in Molecular Biology</i> , 2016, 1417, 159-168.	0.4	14
100	Isolation of functional mature peritoneal macrophages from healthy humans. <i>Immunology and Cell Biology</i> , 2020, 98, 114-126.	1.0	14
101	Techniques to Study Inflammasome Activation and Inhibition by Small Molecules. <i>Molecules</i> , 2021, 26, 1704.	1.7	11
102	First Description of Late-Onset Autoinflammatory Disease Due to Somatic NLRP4 Mosaicism. <i>Arthritis and Rheumatology</i> , 2022, 74, 692-699.	2.9	10
103	P2X7 Receptor Activation Impairs Exogenous MHC Class I Oligopeptides Presentation in Antigen Presenting Cells. <i>PLoS ONE</i> , 2013, 8, e70577.	1.1	9
104	NLRP3 at the crossroads between immune/inflammatory responses and enteric neuroplastic remodelling in a mouse model of diet-induced obesity. <i>British Journal of Pharmacology</i> , 2021, 178, 3924-3942.	2.7	9
105	Isolation of Particles of Recombinant ASC and NLRP3. <i>Bio-protocol</i> , 2015, 5, .	0.2	9
106	Extracellular NLRP3 inflammasome particles are internalized by human coronary artery smooth muscle cells and induce pro-atherogenic effects. <i>Scientific Reports</i> , 2021, 11, 15156.	1.6	8
107	Galvanic current activates the NLRP3 inflammasome to promote Type I collagen production in tendon. <i>ELife</i> , 2022, 11, .	2.8	8
108	Characterization of Novel Pathogenic Variants Leading to Caspase-8 Cleavage-Resistant RIPK1-Induced Autoinflammatory Syndrome. <i>Journal of Clinical Immunology</i> , 2022, 42, 1421-1432.	2.0	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.	1.4	7
110	WDR90 is a new component of the NLRC4 inflammasome involved in Salmonella Typhimurium resistance. Developmental and Comparative Immunology, 2019, 100, 103428.	1.0	6
111	Editorial overview: Purinergic P2X receptors in innate immunity and inflammation. Current Opinion in Pharmacology, 2019, 47, 141-144.	1.7	4
112	Detection of Inflammasome Activation by P2X7 Purinoceptor Activation by Determining ASC Oligomerization. Methods in Molecular Biology, 2020, 2041, 335-343.	0.4	4
113	Inflammasome Activation by Danger Signals. , 2011, , 101-121.		4
114	Measuring IL-1 $\beta$ Processing by Bioluminescence Sensors I: Using a Bioluminescence Resonance Energy Transfer Biosensor. Methods in Molecular Biology, 2016, 1417, 89-95.	0.4	3
115	Reprogramming macrophages by plasmin. Blood, 2017, 129, 2823-2824.	0.6	3
116	Assessment of ASC Oligomerization by Flow Cytometry. Methods in Molecular Biology, 2022, 2459, 1-9.	0.4	2
117	ASC nanobodies to counteract the consequences of inflammasome activation. EMBO Molecular Medicine, 2022, 14, e16087.	3.3	2
118	Response to Boyle et al.. Immunity, 2013, 38, 400-401.	6.6	1
119	Methods to Study Cell Swelling-Induced Inflammasome Activation. Methods in Molecular Biology, 2018, 1714, 191-197.	0.4	1
120	Assessment of Cell Adhesion After Purinoceptor Activation. Methods in Molecular Biology, 2020, 2041, 351-358.	0.4	1
121	Editorial overview: Ion channels and immune cells: What ions could do for immune cells. Current Opinion in Immunology, 2018, 52, vi-viii.	2.4	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.	1.8	0
123	Integrated Transcriptomic and Proteomic Analyses of Inflammasome in Myelodysplastic Syndromes and Chronic Myelomonocytic Leukemia. Blood, 2019, 134, 2991-2991.	0.6	0