Colin Watts

List of Publications by Year
in descending order

98 papers	9,180 citations	50170 46 h-index	40881 93 g-index
101 all docs	101 docs citations	101 times ranked	8829 citing authors

#	Article	IF	Citations
1	Lysosomes and lysosomeâ€related organelles in immune responses. FEBS Open Bio, 2022, 12, 678-693.	1.0	23
2	Discovery and Differential Processing of HLA Class II-Restricted Minor Histocompatibility Antigen LB-PIP4K2A-1S and Its Allelic Variant by Asparagine Endopeptidase. Frontiers in Immunology, 2020, 11, 381.	2.2	7
3	Asparaginyl Endopeptidase (Legumain) Supports Human Th1 Induction via Cathepsin L-Mediated Intracellular C3 Activation. Frontiers in Immunology, 2018, 9, 2449.	2.2	34
4	Lysosomal protease deficiency or substrate overload induces an oxidative-stress mediated STAT3-dependent pathway of lysosomal homeostasis. Nature Communications, 2018, 9, 5343.	5.8	52
5	PD-1 Inhibitory Receptor Downregulates Asparaginyl Endopeptidase and Maintains Foxp3 Transcription Factor Stability in Induced Regulatory T Cells. Immunity, 2018, 49, 247-263.e7.	6.6	104
6	Cystatin F Ensures Eosinophil Survival by Regulating Granule Biogenesis. Immunity, 2016, 44, 795-806.	6.6	33
7	Origin and Processing of MHC Class II Ligands. , 2016, , 241-246.		0
8	The PDK1â€“Rsk Signaling Pathway Controls Langerhans Cell Proliferation and Patterning. Journal of Immunology, 2015, 195, 4264-4272.	0.4	13
9	Structural and Functional Basis for p38-MK2-Activated Rsk Signaling in Toll-Like Receptor-Stimulated Dendritic Cells. Molecular and Cellular Biology, 2015, 35, 132-140.	1.1	14
10	A critical role for beta2 integrins in podosome formation, dynamics and TLR-signaled disassembly in dendritic cells. Journal of Cell Science, 2014, 127, 4213-24.	1.2	35
11	Loss of beta2-integrin-mediated cytoskeletal linkage reprogrammes dendritic cells to a mature migratory phenotype. Nature Communications, 2014, 5, 5359.	5.8	52
12	A combination of SILAC and nucleotide acyl phosphate labelling reveals unexpected targets of the Rsk inhibitor BI-D1870. Bioscience Reports, 2014, 34, .	1.1	13
13	Chronic exposure of astrocytes to interferon-Î± reveals molecular changes related to Aicardiâ€“GoutiÃ¨res syndrome. Brain, 2013, 136, 245-258.	3.7	44
14	The Spontaneously Adhesive Leukocyte Function-associated Antigen-1 (LFA-1) Integrin in Effector T Cells Mediates Rapid Actin- and Calmodulin-dependent Adhesion Strengthening to Ligand under Shear Flow. Journal of Biological Chemistry, 2013, 288, 14698-14708.	1.6	25
15	The endosomeâ€“lysosome pathway and information generation in the immune system. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 14-21.	1.1	125
16	Application of a novel highly sensitive activity-based probe for detection of cathepsin G. Analytical Biochemistry, 2012, 421, 667-672.	1.1	27
17	Regulation of cathepsins S and L by cystatin F during maturation of dendritic cells. European Journal of Cell Biology, 2012, 91, 391-401.	1.6	39
18	A Multifunctional Protease Inhibitor To Regulate Endolysosomal Function. ACS Chemical Biology, 2011, 6, 1198-1204.	1.6	19

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19	Internalization of Exogenous Cystatin F Supresses Cysteine Proteases and Induces the Accumulation of Single-chain Cathepsin L by Multiple Mechanisms. Journal of Biological Chemistry, 2011, 286, 42082-42090.	1.6	29
20	Asparagine endopeptidase is required for normal kidney physiology and homeostasis. FASEB Journal, 2011, 25, 1606-1617.	0.2	68
21	TLR signalling regulated antigen presentation in dendritic cells. Current Opinion in Immunology, 2010, 22, 124-130.	2.4	151
22	Dendritic cell podosomes are protrusive and invade the extracellular matrix using metalloproteinase MMP-14. Journal of Cell Science, 2010, 123, 1427-1437.	1.2	133
23	Distinct Protease Requirements for Antigen Presentation In Vitro and In Vivo. Journal of Immunology, 2010, 184, 2423-2431.	0.4	46
24	A dyad of lymphoblastic lysosomal cysteine proteases degrades the antileukemic drug l-asparaginase. Journal of Clinical Investigation, 2009, 119, 1964-73.	3.9	69
25	Diverse regulatory roles for lysosomal proteases in the immune response. European Journal of Immunology, 2009, 39, 2955-2965.	1.6	108
26	Glycosylation Directs Targeting and Activation of Cystatin F from Intracellular and Extracellular Sources. Traffic, 2009, 10, 425-437.	1.3	43
27	A role for ARF6 in dendritic cell podosome formation and migration. European Journal of Immunology, 2008, 38, 818-828.	1.6	33
28	Location, location, location: identifying the neighborhoods of LPS signaling. Nature Immunology, 2008, 9, 343-345.	7.0	32
29	Cystatin F is a cathepsin C-directed protease inhibitor regulated by proteolysis. EMBO Journal, 2008, 27, 499-508.	3.5	104
30	Neuroprotective Actions of PIKE-L by Inhibition of SET Proteolytic Degradation by Asparagine Endopeptidase. Molecular Cell, 2008, 29, 665-678.	4.5	116
31	TLR ligandâ€“induced podosome disassembly in dendritic cells is ADAM17 dependent. Journal of Cell Biology, 2008, 182, 993-1005.	2.3	78
32	3-Phosphoinositide-dependent Kinase 1 Deficiency Perturbs Toll-like Receptor Signaling Events and Actin Cytoskeleton Dynamics in Dendritic Cells. Journal of Biological Chemistry, 2008, 283, 929-939.	1.6	19
33	Proximal effects of Toll-like receptor activation in dendritic cells. Current Opinion in Immunology, 2007, 19, 73-78.	2.4	56
34	The MAPK-activated kinase Rsk controls an acute Toll-like receptor signaling response in dendritic cells and is activated through two distinct pathways. Nature Immunology, 2007, 8, 1227-1235.	7.0	128
35	Reconstruction of a pathway of antigen processing and class II MHC peptide capture. EMBO Journal, 2007, 26, 2137-2147.	3.5	32
36	Phagosome Neutrality in Host Defense. Cell, 2006, 126, 17-19.	13.5	11

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37	Cystatin M/E Is a High Affinity Inhibitor of Cathepsin V and Cathepsin L by a Reactive Site That Is Distinct from the Legumain-binding Site. Journal of Biological Chemistry, 2006, 281, 15893-15899.	1.6	99
38	Structural Basis of Reduction-dependent Activation of Human Cystatin F. Journal of Biological Chemistry, 2006, 281, 16570-16575.	1.6	39
39	Asparaginyl endopeptidase: case history of a class II MHC compartment protease. Immunological Reviews, 2005, 207, 218-228.	2.8	62
40	Bm-CPI-2, a cystatin from Brugia malayi nematode parasites, differs from Caenorhabditis elegans cystatins in a specific site mediating inhibition of the antigen-processing enzyme AEP. Molecular and Biochemical Parasitology, 2005, 139, 197-203.	0.5	61
41	Destructive potential of the aspartyl protease cathepsinâ€„D in MHC classâ€„II-restricted antigen processing. European Journal of Immunology, 2005, 35, 3442-3451.	1.6	60
42	Asparagine Deamidation Perturbs Antigen Presentation on Class II Major Histocompatibility Complex Molecules. Journal of Biological Chemistry, 2005, 280, 18498-18503.	1.6	66
43	The exogenous pathway for antigen presentation on major histocompatibility complex class II and CD1 molecules. Nature Immunology, 2004, 5, 685-692.	7.0	245
44	Enhanced Dendritic Cell Antigen Capture via Toll-Like Receptor-Induced Actin Remodeling. Science, 2004, 305, 1153-1157.	6.0	462
45	Disulfide bonds in merozoite surface protein 1 of the malaria parasite impede efficient antigen processing and affect thein vivoantibody response. European Journal of Immunology, 2004, 34, 639-648.	1.6	57
46	IMMUNOLOGY: The Bell Tolls for Phagosome Maturation. Science, 2004, 304, 976-977.	6.0	16
47	Class II MHC. Cell, 2004, 117, 558-559.	13.5	2
48	Multistep Autoactivation of Asparaginyl Endopeptidase in Vitro and in Vivo. Journal of Biological Chemistry, 2003, 278, 38980-38990.	1.6	145
49	Asparagine Endopeptidase Can Initiate the Removal of the MHC Class II Invariant Chain Chaperone. Immunity, 2003, 18, 489-498.	6.6	103
50	Novel Cell-Permeable Acyloxymethylketone Inhibitors of Asparaginyl Endopeptidase. Biological Chemistry, 2003, 384, 1239-46.	1.2	42
51	Roles for asparagine endopeptidase in class II MHC-restricted antigen processing. Biochemical Society Symposia, 2003, 70, 31-38.	2.7	4
52	Phagocytosis: How the Phagosome Became the Phag-ER-some. Current Biology, 2002, 12, R666-R668.	1.8	4
53	Antibody modulation of antigen presentation: positive and negative effects on presentation of the tetanus toxin antigen via the murine B cell isoform of FcÎ³RII. European Journal of Immunology, 2002, 32, 530-540.	1.6	50
54	Destructive processing by asparagine endopeptidase limits presentation of a dominant T cell epitope in MBP. Nature Immunology, 2002, 3, 169-174.	7.0	200

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55	Phagocytosis and antigen presentation. Seminars in Immunology, 2001, 13, 373-379.	2.7	38
56	Antigen processing in the endocytic compartment. Current Opinion in Immunology, 2001, 13, 26-31.	2.4	158
57	Bm-CPI-2, a cystatin homolog secreted by the filarial parasite Brugia malayi, inhibits class II MHC-restricted antigen processing. Current Biology, 2001, 11, 447-451.	1.8	208
58	IMMUNOLOGY: Antigen Presentation--Losing Its Shine in the Absence of GILT. Science, 2001, 294, 1294-1295.	6.0	25
59	Antigen Traffic Pathways in Dendritic Cells. Traffic, 2000, 1, 312-317.	1.3	35
60	Rac is required for constitutive macropinocytosis by dendritic cells but does not control its downregulation. Current Biology, 2000, 10, 839-848.	1.8	245
61	The Structures of the HC Fragment of Tetanus Toxin with Carbohydrate Subunit Complexes Provide Insight into Ganglioside Binding. Journal of Biological Chemistry, 2000, 275, 8889-8894.	1.6	129
62	Control of Antigen Presentation by a Single Protease Cleavage Site. Immunity, 2000, 12, 391-398.	6.6	157
63	Functional Early Endosomes Are Required for Maturation of Major Histocompatibility Complex Class II Molecules in Human B Lymphoblastoid Cells. Journal of Biological Chemistry, 1999, 274, 18049-18054.	1.6	34
64	Dendritic cells spill the beans. Nature Cell Biology, 1999, 1, E152-E154.	4.6	9
65	Membrane ruffling, macropinocytosis and antigen presentation in the absence of gelsolin in murine dendritic cells. European Journal of Immunology, 1999, 29, 3450-3455.	1.6	45
66	Membrane ruffling, macropinocytosis and antigen presentation in the absence of gelsolin in murine dendritic cells. , 1999, 29, 3450.		3
67	An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation. Nature, 1998, 396, 695-699.	13.7	344
68	Modulation by epitope-specific antibodies of class II MHC-restricted presentation of the tetanus toxin antigen. Immunological Reviews, 1998, 164, 11-16.	2.8	44
69	Antigen overview. Current Opinion in Immunology, 1998, 10, 57-58.	2.4	15
70	Distinct Intracellular Compartments Involved in Invariant Chain Degradation and Antigenic Peptide Loading of Major Histocompatibility Complex (MHC) Class II Molecules. Journal of Cell Biology, 1997, 139, 1433-1446.	2.3	55
71	Cloning, Isolation, and Characterization of Mammalian Legumain, an Asparaginyl Endopeptidase. Journal of Biological Chemistry, 1997, 272, 8090-8098.	1.6	314
72	Proteolytic cleavage of cellubrevin and vesicle-associated membrane protein (VAMP) by tetanus toxin does not impair insulin-stimulated glucose transport or GLUT4 translocation in rat adipocytes. Biochemical Journal, 1997, 321, 233-238.	1.7	22

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73	CAPTURE AND PROCESSING OF EXOGENOUS ANTIGENS FOR PRESENTATION ON MHC MOLECULES. Annual Review of Immunology, 1997, 15, 821-850.	9.5	698
74	Immunology Inside the gearbox of the dendritic cell. Nature, 1997, 388, 724-724.	13.7	47
75	Antigen endocytosis and presentation mediated by human membrane IgG1 in the absence of the IgÎ±/IgÎ² dimer. EMBO Journal, 1997, 16, 3842-3850.	3.5	41
76	Constitutive macropinocytosis allows TAP-dependent major histocompatibility compex class I presentation of exogenous soluble antigen by bone marrow-derived dendritic cells. European Journal of Immunology, 1997, 27, 280-288.	1.6	321
77	Macropinocytosis. Trends in Cell Biology, 1995, 5, 424-428.	3.6	702
78	Antigen-processing organelles from DRB1*1101 and DRB1*1104 B cell lines display a differential degradation activity. European Journal of Immunology, 1995, 25, 30-36.	1.6	16
79	Class I MHC presentation of exogenous soluble antigen via macropinocytosis in bone marrow macrophages. Immunity, 1995, 3, 783-791.	6.6	375
80	Professional presentation of antigen by activated human T cells. European Journal of Immunology, 1994, 24, 71-75.	1.6	106
81	Antigen processing and class II MHC peptide-loading compartments in human B-lymphoblastoid cells. Nature, 1994, 369, 147-151.	13.7	348
82	Peptide partners call the tune. Nature, 1994, 371, 198-199.	13.7	12
83	Irreversible association of peptides with class II MHC molecules in living cells. Nature, 1992, 357, 249-252.	13.7	172
84	The Functional Relationship between Preferential Use of Newly Synthesized Class II Molecules and Their Stable Association with Peptides. , 1992, , 71-74.		0
85	Antigen Processing in B Lymphocytes. , 1992, , 335-340.		0
86	Processed antigen binds to newly synthesized mhc class II molecules in antigen-specific B lymphocytes. Cell, 1991, 67, 105-116.	13.5	186
87	Antigen processing and class II MHC-restricted antigen presentation in Blymphocytes. Biochemical Society Transactions, 1991, 19, 263-265.	1.6	0
88	Cycling of cell-surface MHC glycoproteins through primaquine-sensitive intracellular compartments. Nature, 1990, 346, 655-657.	13.7	251
89	What the papers say: Membrane recycling and antigen presentation. BioEssays, 1986, 4, 265-267.	1.2	4
90	Sexist ads. Nature, 1986, 321, 106-106.	13.7	1

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91	Isolation and expression of cDNA clones for a rat liver asialoglycoprotein receptor. Bioscience Reports, 1986, 6, 527-534.	1.1	0
92	[13] Analysis of M13 procoat assembly into membranes in vitro. Methods in Enzymology, 1983, 97, 130-138.	0.4	2
93	Membrane assembly: Posttranslational insertion of M13 procoat protein into E. coli membranes and its proteolytic conversion to coat protein in vitro. Cell, 1981, 24, 437-441.	13.5	50
94	Membrane assembly from purified components. II. Assembly of M13 procoat into liposomes reconstituted with purified leader peptidase. Cell, 1981, 25, 347-353.	13.5	75
95	Membrane assembly from purified components. I. Isolated M13 procoat does not require ribosomes or soluble proteins for processing by membranes. Cell, 1981, 25, 341-345.	13.5	63
96	The characterisation of two partially purified systems for Na+-dependent amino acid transport. Biochimica Et Biophysica Acta - Biomembranes, 1980, 602, 446-459.	1.4	12
97	The formation of vesicles retaining sodium-dependent transport systems for amino acids from protein-depleted membranes of pigeon erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1980, 602, 460-466.	1.4	5
98	Partial separation of a sodium-dependent transport system for amino acids in avian erythrocyte membranes. FEBS Letters, 1978, 94, 241-244.	1.3	8