Paul A Roche

List of Publications by Year
in descending order

86 papers	6,709 citations	87888 38 h-index	62596 80 g-index
88 all docs	88 docs citations	88 times ranked	8346 citing authors

#	Article	IF	Citations
1	The ins and outs of MHC class II-mediated antigen processing and presentation. Nature Reviews Immunology, 2015, 15, 203-216.	22.7	791
2	Invariant chain association with HLA-DR molecules inhibits immunogenic peptide binding. Nature, 1990, 345, 615-618.	27.8	476
3	Formation of a nine-subunit complex by HLA class II glycoproteins and the invariant chain. Nature, 1991, 354, 392-394.	27.8	318
4	Macropinocytosis in phagocytes: regulation of MHC class-II-restricted antigen presentation in dendritic cells. Frontiers in Physiology, 2015, 6, 1.	2.8	318
5	Concentration of MHC class II molecules in lipid rafts facilitates antigen presentation. Nature Immunology, 2000, 1, 156-162.	14.5	309
6	Identification of a Novel Syntaxin- and Synaptobrevin/VAMP-binding Protein, SNAP-23, Expressed in Non-neuronal Tissues. Journal of Biological Chemistry, 1996, 271, 13300-13303.	3.4	308
7	Defective cytotoxic lymphocyte degranulation in syntaxin-11â€“deficient familial hemophagocytic lymphohistiocytosis 4 (FHL4) patients. Blood, 2007, 110, 1906-1915.	1.4	272
8	TLR Signals Induce Phagosomal MHC-I Delivery from the Endosomal Recycling Compartment to Allow Cross-Presentation. Cell, 2014, 158, 506-521.	28.9	270
9	T cell-induced secretion of MHC class IIâ€“peptide complexes on B cell exosomes. EMBO Journal, 2007, 26, 4263-4272.	7.8	221
10	Suppression of antigen presentation by IL-10. Current Opinion in Immunology, 2015, 34, 22-27.	5.5	214
11	Mast cells possess distinct secretory granule subsets whose exocytosis is regulated by different SNARE isoforms. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2580-2585.	7.1	187
12	MHC Class II-Peptide Complexes and APC Lipid Rafts Accumulate at the Immunological Synapse. Journal of Immunology, 2003, 170, 1329-1338.	0.8	126
13	A neuronal role for SNAP-23 in postsynaptic glutamate receptor trafficking. Nature Neuroscience, 2010, 13, 338-343.	14.8	119
14	Interleukin 10 (IL-10)-mediated Immunosuppression. Journal of Biological Chemistry, 2015, 290, 27158-27167.	3.4	119
15	Phosphorylation of SNAP-23 Regulates Exocytosis from Mast Cells. Journal of Biological Chemistry, 2005, 280, 6610-6620.	3.4	113
16	Major Histocompatibility Complex Class II-Peptide Complexes Internalize Using a Clathrin- and Dynamin-independent Endocytosis Pathway. Journal of Biological Chemistry, 2008, 283, 14717-14727.	3.4	111
17	Ternary SNARE Complexes Are Enriched in Lipid Rafts during Mast Cell Exocytosis. Traffic, 2006, 7, 1482-1494.	2.7	100
18	Ubiquitination regulates MHC class II-peptide complex retention and degradation in dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20465-20470.	7.1	100

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19	SNAP-23 Is Not Cleaved by Botulinum Neurotoxin E and Can Replace SNAP-25 in the Process of Insulin Secretion. Journal of Biological Chemistry, 1997, 272, 33023-33027.	3.4	99
20	Targeting of SNAP-23 and SNAP-25 in Polarized Epithelial Cells. Journal of Biological Chemistry, 1998, 273, 3422-3430.	3.4	98
21	ÎºB kinase phosphorylation of SNAP-23 controls platelet secretion. Blood, 2013, 121, 4567-4574.	1.4	95
22	SNAP-23 and SNAP-25 Are Palmitoylatedin Vivo. Biochemical and Biophysical Research Communications, 1999, 258, 407-410.	2.1	94
23	Trafficking of MHC class II molecules in the late secretory pathway. Current Opinion in Immunology, 2002, 14, 30-35.	5.5	93
24	Internalization and catabolism of radiolabelled antibodies to the MHC class-II invariant chain by B-cell lymphomas. Biochemical Journal, 1996, 320, 293-300.	3.7	80
25	HLA-DM: An in vivo facilitator of MHC class II peptide loading. Immunity, 1995, 3, 259-262.	14.3	76
26	Dysfunction of antigen processing and presentation by dendritic cells in cancer. Molecular Immunology, 2019, 113, 31-37.	2.2	75
27	Targeting of SNAP-25 to Membranes Is Mediated by Its Association with the Target SNARE Syntaxin. Journal of Biological Chemistry, 2000, 275, 2959-2965.	3.4	74
28	Mast Cell Degranulation RequiresN-Ethylmaleimide-Sensitive Factor-Mediated SNARE Disassembly. Journal of Immunology, 2003, 171, 5345-5352.	0.8	70
29	Ubiquitination by March-I prevents MHC class II recycling and promotes MHC class II turnover in antigen-presenting cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10449-10454.	7.1	61
30	SNAP-29 Is a Promiscuous Syntaxin-Binding SNARE. Biochemical and Biophysical Research Communications, 2001, 285, 167-171.	2.1	60
31	Polydopamine Encapsulation of Fluorescent Nanodiamonds for Biomedical Applications. Advanced Functional Materials, 2018, 28, 1801252.	14.9	58
32	Intracellular Redirection of Plasma Membrane Trafficking after Loss of Epithelial Cell Polarity. Molecular Biology of the Cell, 2000, 11, 3045-3060.	2.1	55
33	Biocompatible Fluorescent Nanodiamonds as Multifunctional Optical Probes for Latent Fingerprint Detection. ACS Applied Materials & Interfaces, 2020, 12, 6641-6650.	8.0	55
34	The Last Exon of SNAP-23 Regulates Granule Exocytosis from Mast Cells. Journal of Biological Chemistry, 2001, 276, 25101-25106.	3.4	54
35	Association of MHC class IIâ€“peptide complexes with plasma membrane lipid microdomains. Current Opinion in Immunology, 2004, 16, 103-107.	5.5	52
36	Major Histocompatibility Complex (MHC) Class II-Peptide Complexes Arrive at the Plasma Membrane in Cholesterol-rich Microclusters. Journal of Biological Chemistry, 2013, 288, 13236-13242.	3.4	48

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37	MHC class II association with lipid rafts on the antigen presenting cell surface. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 775-780.	4.1	46
38	Dendritic Cell Activation Prevents MHC Class II Ubiquitination and Promotes MHC Class II Survival Regardless of the Activation Stimulus. Journal of Biological Chemistry, 2010, 285, 41749-41754.	3.4	43
39	Differential phosphorylation of SNAP-25 in vivo by protein kinase C and protein kinase A. FEBS Letters, 2002, 532, 52-56.	2.8	41
40	Antigen Processing and Presentation Mechanisms in Myeloid Cells. Microbiology Spectrum, 2016, 4, .	3.0	41
41	SNAP-23 participates in SNARE complex assembly in rat adipose cells. Biochemical Journal, 1999, 338, 709-715.	3.7	38
42	MHC class II transport at a glance. Journal of Cell Science, 2009, 122, 1-4.	2.0	38
43	Selectivity and stereospecificity of the reactions of dichlorodiammineplatinum(II) with three purified plasma proteins. Journal of Inorganic Biochemistry, 1988, 33, 67-76.	3.5	35
44	MHC Class II Molecules Traffic into Lipid Rafts during Intracellular Transport. Journal of Immunology, 2004, 173, 4539-4546.	0.8	35
45	Internalizing MHC class IIâ€“peptide complexes are ubiquitinated in early endosomes and targeted for lysosomal degradation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20188-20193.	7.1	35
46	Francisella tularensis Elicits IL-10 via a PGE2-Inducible Factor, to Drive Macrophage MARCH1 Expression and Class II Down-Regulation. PLoS ONE, 2012, 7, e37330.	2.5	34
47	Identification of syntaxin 1A as a novel binding protein for presenilin-1. Molecular Brain Research, 2000, 78, 100-107.	2.3	33
48	Deletion of SNAP-23 Results in Pre-Implantation Embryonic Lethality in Mice. PLoS ONE, 2011, 6, e18444.	2.5	33
49	Regulation of MHC Class II-Peptide Complex Expression by Ubiquitination. Frontiers in Immunology, 2013, 4, 369.	4.8	30
50	Pleiotropic consequences of metabolic stress for the major histocompatibility complex class II molecule antigen processing and presentation machinery. Immunity, 2021, 54, 721-736.e10.	14.3	30
51	Ubiquitin-conjugating enzyme E2 D1 (Ube2D1) mediates lysine-independent ubiquitination of the E3 ubiquitin ligase March-I. Journal of Biological Chemistry, 2018, 293, 3904-3912.	3.4	27
52	Intersubunit cross-linking by cis-dichlorodiammineplatinum(II) stabilizes an .alpha.2-macroglobulin "nascent" state: evidence that thiol ester bond cleavage correlates with receptor recognition site exposure. Biochemistry, 1988, 27, 759-764.	2.5	25
53	CDw78 Defines MHC Class II-Peptide Complexes That Require Ii Chain-Dependent Lysosomal Trafficking, Not Localization to a Specific Tetraspanin Membrane Microdomain. Journal of Immunology, 2006, 177, 5451-5458.	0.8	25
54	Distinct MHC Class II Molecules Are Associated on the Dendritic Cell Surface in Cholesterol-dependent Membrane Microdomains. Journal of Biological Chemistry, 2010, 285, 35303-35310.	3.4	24

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55	Invariant chainâ€“MHC class II complexes: always odd and never invariant. Immunology and Cell Biology, 2014, 92, 471-472.	2.3	23
56	SNAP23 is selectively expressed in airway secretory cells and mediates baseline and stimulated mucin secretion. Bioscience Reports, 2015, 35, .	2.4	23
57	Calpain-1 Contributes to IgE-Mediated Mast Cell Activation. Journal of Immunology, 2014, 192, 5130-5139.	0.8	22
58	Rab5 is critical for SNAP23 regulated granule-granule fusion during compound exocytosis. Scientific Reports, 2017, 7, 15315.	3.3	18
59	Encounter with antigen-specific primed CD4 T cells promotes MHC class II degradation in dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19380-19385.	7.1	17
60	Intracellular Protein Traffic in Lymphocytes. Immunity, 1999, 11, 391-398.	14.3	16
61	Specificity of Î±₂-Macroglobulin Covalent Cross-Linking for the Active Domain of Proteinases. Biological Chemistry Hoppe-Seyler, 1986, 367, 1177-1182.	1.4	15
62	The role of inter-Î±-trypsin inhibitor and other proteinase inhibitors in the plasma clearance of neutrophil elastase and plasmin. Archives of Biochemistry and Biophysics, 1987, 258, 591-599.	3.0	14
63	Expression of the SNARE Protein SNAP-23 Is Essential for Cell Survival. PLoS ONE, 2015, 10, e0118311.	2.5	14
64	The E3 ubiquitin ligase MARCH1 regulates glucose-tolerance and lipid storage in a sex-specific manner. PLoS ONE, 2018, 13, e0204898.	2.5	14
65	Analysis of thiolester bond cleavage-dependent conformational changes in binary Î±2-macroglobulin-proteinase complexes. Archives of Biochemistry and Biophysics, 1988, 267, 285-293.	3.0	13
66	Independent analysis of bait region cleavage dependent and thiolester bond cleavage dependent conformational changes by cross-linking of .alpha.2-macroglobulin with cis-dichlorodiammineplatinum(II) and dithiobis(succinimidyl propionate). Biochemistry, 1989, 28, 7629-7636.	2.5	13
67	Pancreas-specific SNAP23 depletion prevents pancreatitis by attenuating pathological basolateral exocytosis and formation of trypsin-activating autolysosomes. Autophagy, 2021, 17, 3068-3081.	9.1	12
68	Novel Syntaxin 11 Gene (STX11) Mutation in Three Argentinean Patients with Hemophagocytic Lymphohistiocytosis. Journal of Clinical Immunology, 2010, 30, 330-337.	3.8	11
69	Disruption of Multivesicular Body Vesicles Does Not Affect Major Histocompatibility Complex (MHC) Class II-Peptide Complex Formation and Antigen Presentation by Dendritic Cells*. Journal of Biological Chemistry, 2013, 288, 24286-24292.	3.4	11
70	The cysteine-rich domain of synaptosomal-associated protein of 23â€¯kDa (SNAP-23) regulates its membrane association and regulated exocytosis from mast cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1618-1633.	4.1	11
71	SNAP-23 participates in SNARE complex assembly in rat adipose cells. Biochemical Journal, 1999, 338, 709.	3.7	9
72	Response to 'Rafts for antigen presentation?'. Nature Immunology, 2001, 2, 3-3.	14.5	8

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73	A major isoform of the E3 ubiquitin ligase March-I in antigen-presenting cells has regulatory sequences within its gene. Journal of Biological Chemistry, 2018, 293, 4478-4485.	3.4	8
74	Activation of Dendritic Cells Alters the Mechanism of MHC Class II Antigen Presentation to CD4 T Cells. Journal of Immunology, 2020, 204, 1621-1629.	0.8	8
75	Ubiquitination of MHC Class II by March-I Regulates Dendritic Cell Fitness. Journal of Immunology, 2021, 206, 494-504.	0.8	7
76	Structure and chromosomal localization of the mouse SNAP-23 gene. Gene, 2000, 247, 181-189.	2.2	6
77	Proteolysis of the class II-associated invariant chain generates a peptide binding site in intracellular HLA-DR molecules. Proc. Natl. Acad. Sci. USA. 1991. 88: 3150-3154. Journal of Immunology, 2011, 187, 1076-80.	0.8	6
78	Bioimaging: Polydopamine Encapsulation of Fluorescent Nanodiamonds for Biomedical Applications (Adv. Funct. Mater. 33/2018). Advanced Functional Materials, 2018, 28, 1870234.	14.9	5
79	Ligation of MHC Class II Induces PKC-Dependent Clathrin-Mediated Endocytosis of MHC Class II. Cells, 2020, 9, 1810.	4.1	5
80	Inflammation rapidly recruits mammalian GMP and MDP from bone marrow into regional lymphatics. ELife, 2021, 10, .	6.0	5
81	Antigen Processing and Presentation Mechanisms in Myeloid Cells. , 0, , 209-223.		5
82	Cloning and identification of human syntaxin 5 as a synaptobrevin/VAMP binding protein. Journal of Molecular Neuroscience, 1997, 8, 159-161.	2.3	4
83	Monitoring MHC-II Endocytosis and Recycling Using Cell-Surface Protein Biotinylation-Based Assays. Methods in Molecular Biology, 2019, 1988, 271-277.	0.9	4
84	Editorial Overview: Antigen Processing and Presentation; many fingers in many pies. Current Opinion in Immunology, 2017, 46, v-vii.	5.5	0
85	Monitoring Protein Endocytosis and Recycling Using FACS-Based Assays. Methods in Molecular Biology, 2019, 1988, 279-288.	0.9	0
86	Cholesterol regulates the loading of foreign antigens onto MHC class II in dendritic cells. FASEB Journal, 2008, 22, 1067.7.	0.5	0