Phillip Ian Bird

List of Publications by Year
in descending order

127	7,472	57752	58576
papers	citations	44 h-index	82 g-index

137	137	137	8116
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Serpins Are an Expanding Superfamily of Structurally Similar but Functionally Diverse Proteins. Journal of Biological Chemistry, 2001, 276, 33293-33296.	3.4	1,069
2	The structural basis for membrane binding and pore formation by lymphocyte perforin. Nature, 2010, 468, 447-451.	27.8	364
3	Selective Regulation of Apoptosis: the Cytotoxic Lymphocyte Serpin Proteinase Inhibitor 9 Protects against Granzyme B-Mediated Apoptosis without Perturbing the Fas Cell Death Pathway. Molecular and Cellular Biology, 1998, 18, 6387-6398.	2.3	267
4	A Cytosolic Granzyme B Inhibitor Related to the Viral Apoptotic Regulator Cytokine Response Modifier A Is Present in Cytotoxic Lymphocytes. Journal of Biological Chemistry, 1996, 271, 27802-27809.	3.4	265
5	A Common Fold Mediates Vertebrate Defense and Bacterial Attack. Science, 2007, 317, 1548-1551.	12.6	261
6	The MACPF/CDC family of pore-forming toxins. Cellular Microbiology, 2008, 10, 1765-1774.	2.1	250
7	Extracellular Matrix Remodeling by Human Granzyme B via Cleavage of Vitronectin, Fibronectin, and Laminin. Journal of Biological Chemistry, 2005, 280, 23549-23558.	3.4	219
8	Perforin forms transient pores on the target cell plasma membrane to facilitate rapid access of granzymes during killer cell attack. Blood, 2013, 121, 2659-2668.	1.4	208
9	The major human and mouse granzymes are structurally and functionally divergent. Journal of Cell Biology, 2006, 175, 619-630.	5.2	187
10	Cathepsin G Inhibition by Serpinb1 and Serpinb6 Prevents Programmed Necrosis in Neutrophils and Monocytes and Reduces GSDMD-Driven Inflammation. Cell Reports, 2019, 27, 3646-3656.e5.	6.4	166
11	The Intracellular Granzyme B Inhibitor, Proteinase Inhibitor 9, Is Up-Regulated During Accessory Cell Maturation and Effector Cell Degranulation, and Its Overexpression Enhances CTL Potency. Journal of Immunology, 2003, 170, 805-815.	0.8	141
12	Serpins Flex Their Muscle. Journal of Biological Chemistry, 2010, 285, 24299-24305.	3.4	128
13	Endolysosomal proteases and their inhibitors in immunity. Nature Reviews Immunology, 2009, 9, 871-882.	22.7	114
14	A Central Role for Bid in Granzyme B-induced Apoptosis. Journal of Biological Chemistry, 2005, 280, 4476-4482.	3.4	111
15	Extracellular granzymes: current perspectives. Biological Chemistry, 2006, 387, 827-37.	2.5	105
16	A New Family of 10 Murine Ovalbumin Serpins Includes Two Homologs of Proteinase Inhibitor 8 and Two Homologs of the Granzyme B Inhibitor (Proteinase Inhibitor 9). Journal of Biological Chemistry, 1997, 272, 15434-15441.	3.4	104
17	Granzyme B Promotes Cytotoxic Lymphocyte Transmigration via Basement Membrane Remodeling. Immunity, 2014, 41, 960-972.	14.3	102
18	Nucleocytoplasmic Distribution of the Ovalbumin Serpin PI-9 Requires a Nonconventional Nuclear Import Pathway and the Export Factor Crm1. Molecular and Cellular Biology, 2001, 21, 5396-5407.	2.3	99

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19	RNA-Seq analysis of chikungunya virus infection and identification of granzyme A as a major promoter of arthritic inflammation. PLoS Pathogens, 2017, 13, e1006155.	4.7	98
20	Serpins Flex Their Muscle. Journal of Biological Chemistry, 2010, 285, 24307-24312.	3.4	97
21	Cytotoxic T lymphocyteâ€“induced killing in the absence of granzymes A and B is unique and distinct from both apoptosis and perforin-dependent lysis. Journal of Cell Biology, 2006, 173, 133-144.	5.2	90
22	The Intracellular Serpin Proteinase Inhibitor 6 Is Expressed in Monocytes and Granulocytes and Is a Potent Inhibitor of the Azurophilic Granule Protease, Cathepsin G. Blood, 1999, 93, 2089-2097.	1.4	77
23	A Role for Granzyme M in TLR4-Driven Inflammation and Endotoxicosis. Journal of Immunology, 2010, 185, 1794-1803.	0.8	77
24	The Granzyme B Inhibitor, PI-9, Is Present in Endothelial and Mesothelial Cells, Suggesting That It Protects Bystander Cells during Immune Responses. Cellular Immunology, 2001, 210, 21-29.	3.0	75
25	Cationic Sites on Granzyme B Contribute to Cytotoxicity by Promoting Its Uptake into Target Cells. Molecular and Cellular Biology, 2005, 25, 7854-7867.	2.3	75
26	Hurpin Is a Selective Inhibitor of Lysosomal Cathepsin L and Protects Keratinocytes from Ultraviolet-Induced Apoptosis. Biochemistry, 2003, 42, 7381-7389.	2.5	72
27	The High Resolution Crystal Structure of the Human Tumor Suppressor Maspin Reveals a Novel Conformational Switch in the G-helix. Journal of Biological Chemistry, 2005, 280, 22356-22364.	3.4	69
28	Importance of the P4â€² Residue in Human Granzyme B Inhibitors and Substrates Revealed by Scanning Mutagenesis of the Proteinase Inhibitor 9 Reactive Center Loop. Journal of Biological Chemistry, 2001, 276, 15177-15184.	3.4	68
29	Granzyme B leakage-induced cell death: a new type of activation-induced natural killer cell death. European Journal of Immunology, 2003, 33, 3284-3292.	2.9	66
30	The cryo-EM structure of the acid activatable pore-forming immune effector Macrophage-expressed gene 1. Nature Communications, 2019, 10, 4288.	12.8	65
31	Elucidation of the substrate specificity of the MASP-2 protease of the lectin complement pathway and identification of the enzyme as a major physiological target of the serpin, C1-inhibitor. Molecular Immunology, 2008, 45, 670-677.	2.2	64
32	Are all granzymes cytotoxicin vivo?. Biological Chemistry, 2014, 395, 181-202.	2.5	64
33	Cathepsin H Is an Additional Convertase of Pro-granzyme B. Journal of Biological Chemistry, 2010, 285, 20514-20519.	3.4	62
34	Expression and Purification of Recombinant Human Granzyme B from Pichia pastoris. Biochemical and Biophysical Research Communications, 1999, 261, 251-255.	2.1	60
35	Enhancement of DNA Vaccine Potency by Coadministration of a Tumor Antigen Gene and DNA Encoding Serine Protease Inhibitor-6. Cancer Research, 2004, 64, 400-405.	0.9	58
36	Serpins and Regulation of Cell Death. Results and Problems in Cell Differentiation, 1998, 24, 63-89.	0.7	58

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37	Comparison of Human Chromosome 6p25 with Mouse Chromosome 13 Reveals a Greatly Expanded Ov-Serpin Gene Repertoire in the Mouse. Genomics, 2002, 79, 349-362.	2.9	57
38	Granzyme Bâ€“Mediated Death of Pancreatic Î²-Cells Requires the Proapoptotic BH3-Only Molecule Bid. Diabetes, 2006, 55, 2212-2219.	0.6	56
39	Epigenetic control of mitochondrial cell death through PACS1-mediated regulation of BAX/BAK oligomerization. Cell Death and Differentiation, 2017, 24, 961-970.	11.2	52
40	Distinct Membrane and Cytosolic Forms of Inositol Polyphosphate 5-Phosphatase II. Journal of Biological Chemistry, 1998, 273, 8256-8267.	3.4	51
41	Characterization of Four Murine Homologs of the Human ov-serpin Monocyte Neutrophil Elastase Inhibitor MNEI (SERPINB1). Journal of Biological Chemistry, 2002, 277, 42028-42033.	3.4	51
42	Targeted Disruption of SPI3 / Serpinb6 Does Not Result in Developmental or Growth Defects, Leukocyte Dysfunction, or Susceptibility to Stroke. Molecular and Cellular Biology, 2004, 24, 4075-4082.	2.3	49
43	Antihemostatic Activity of Human Granzyme B Mediated by Cleavage of von Willebrand Factor. Journal of Biological Chemistry, 2008, 283, 22498-22504.	3.4	46
44	Characterization of Lgr5+ progenitor cell transcriptomes in the apical and basal turns of the mouse cochlea. Oncotarget, 0, 7, 41123-41141.	1.8	46
45	The use of mini-Gal plasmids for rapid incompatibility grouping of conjugative R plasmids. Plasmid, 1984, 11, 234-242.	1.4	45
46	Cytotoxic T Lymphocytes from Cathepsin B-deficient Mice Survive Normally in Vitro and in Vivo after Encountering and Killing Target Cells. Journal of Biological Chemistry, 2006, 281, 30485-30491.	3.4	45
47	Human Ovalbumin Serpin Evolution: Phylogenic Analysis, Gene Organization, and Identification of New PI8-Related Genes Suggest That Two Interchromosomal and Several Intrachromosomal Duplications Generated the Gene Clusters at 18q21â€“q23 and 6p25. Genomics, 1999, 62, 490-499.	2.9	43
48	Perforin evolved from a gene duplication of MPEG1, followed by a complex pattern of gene gain and loss within Euteleostomi. BMC Evolutionary Biology, 2012, 12, 59.	3.2	43
49	Active and zymogen forms of granzyme B are constitutively released from cytotoxic lymphocytes in the absence of target cell engagement. Immunology and Cell Biology, 2009, 87, 249-254.	2.3	42
50	Nucleophosmin Is Cleaved and Inactivated by the Cytotoxic Granule Protease Granzyme M during Natural Killer Cell-mediated Killing. Journal of Biological Chemistry, 2009, 284, 5137-5147.	3.4	41
51	Serine Proteinase Inhibitor 3 and Murinoglobulin I Are Potent Inhibitors of Neuropsin in Adult Mouse Brain. Journal of Biological Chemistry, 2001, 276, 14562-14571.	3.4	39
52	Production of serpins using yeast expression systems. Methods, 2004, 32, 185-190.	3.8	39
53	Serpins: Finely Balanced Conformational Traps. IUBMB Life, 2002, 54, 1-7.	3.4	38
54	Maspin (SERPINB5) Is an Obligate Intracellular Serpin. Journal of Biological Chemistry, 2010, 285, 10862-10869.	3.4	38

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55	Elucidation of the Substrate Specificity of the C1s Protease of the Classical Complement Pathway. Journal of Biological Chemistry, 2005, 280, 39510-39514.	3.4	36
56	Epigenetic heterochromatin markers distinguish terminally differentiated leukocytes from incompletely differentiated leukemia cells in human blood. Experimental Hematology, 2006, 34, 453-462.	0.4	36
57	Tissue Distribution and Intracellular Localisation of the 75-kDa Inositol Polyphosphate 5-Phosphatase. FEBS Journal, 1995, 234, 216-224.	0.2	34
58	Extracellular Granzyme A Promotes Colorectal Cancer Development by Enhancing Gut Inflammation. Cell Reports, 2020, 32, 107847.	6.4	34
59	Granzyme B Encoded by the Commonly Occurring Human RAH Allele Retains Pro-apoptotic Activity. Journal of Biological Chemistry, 2004, 279, 16907-16911.	3.4	33
60	Analysis of vertebrate genomes suggests a new model for clade B serpin evolution. BMC Genomics, 2005, 6, 167.	2.8	32
61	Mechanisms of serpin dysfunction in disease. Expert Reviews in Molecular Medicine, 2006, 8, 1-19.	3.9	32
62	Noninvasive optical detection of granzyme B from natural killer cells with enzyme-activated fluorogenic probes. Journal of Biological Chemistry, 2020, 295, 9567-9582.	3.4	32
63	Brinp1 â^'/â^' mice exhibit autism-like behaviour, altered memory, hyperactivity and increased parvalbumin-positive cortical interneuron density. Molecular Autism, 2016, 7, 22.	4.9	31
64	Recombinant Caspase-3 Expressed inPichia pastorisIs Fully Activated and Kinetically Indistinguishable from the Native Enzyme. Biochemical and Biophysical Research Communications, 1997, 238, 920-924.	2.1	30
65	Maspin is not required for embryonic development or tumour suppression. Nature Communications, 2014, 5, 3164.	12.8	30
66	The Perforin Pore Facilitates the Delivery of Cationic Cargos. Journal of Biological Chemistry, 2014, 289, 9172-9181.	3.4	30
67	Granzyme A in Chikungunya and Other Arboviral Infections. Frontiers in Immunology, 2019, 10, 3083.	4.8	30
68	Probing the Efficiency of Proteolytic Events by Positional Proteomics. Molecular and Cellular Proteomics, 2011, 10, S1-S10.	3.8	28
69	Identification of AHNAK as a Novel Autoantigen in Systemic Lupus Erythematosus. Biochemical and Biophysical Research Communications, 2002, 291, 951-958.	2.1	27
70	A retained selection cassette increases reporter gene expression without affecting tissue distribution in SPI3 knockout/GFP knock-in mice. Genesis, 2003, 36, 149-157.	1.6	27
71	Identification of Serpinb6b as a Species-specific Mouse Granzyme A Inhibitor Suggests Functional Divergence between Human and Mouse Granzyme A. Journal of Biological Chemistry, 2014, 289, 9408-9417.	3.4	27
72	Granzyme K Expressed by Classically Activated Macrophages Contributes to Inflammation and Impaired Remodeling. Journal of Investigative Dermatology, 2019, 139, 930-939.	0.7	26

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73	Production of recombinant serpins in Escherichia coli. Methods, 2004, 32, 169-176.	3.8	25
74	Structure of granzyme C reveals an unusual mechanism of protease autoinhibition. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5587-5592.	7.1	25
75	SerpinB6 is an Inhibitor of Kallikrein-8 in Keratinocytes. Journal of Biochemistry, 2007, 142, 435-442.	1.7	24
76	Expression, purification and characterization of recombinant Z Î±1-Antitrypsinâ€"The most common cause of Î±1-Antitrypsin deficiency. Protein Expression and Purification, 2009, 68, 226-232.	1.3	23
77	SerpinB1 controls encephalitogenic T helper cells in neuroinflammation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20635-20643.	7.1	23
78	Demonstration of a third incompatibility function on plasmids already incompatible with group P and group I plasmids. Plasmid, 1983, 9, 191-200.	1.4	22
79	Assembly of streptolysin O pores assessed by quartz crystal microbalance and atomic force microscopy provides evidence for the formation of anchored but incomplete oligomers. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 115-126.	2.6	22
80	Granzyme A inhibition reduces inflammation and increases survival during abdominal sepsis. Theranostics, 2021, 11, 3781-3795.	10.0	21
81	Proteinase Inhibitor 6 (PI-6) Expression in Human Skin: Induction of PI-6 and a PI-6/Proteinase Complex during Keratinocyte Differentiation. Experimental Cell Research, 1998, 245, 263-271.	2.6	20
82	Intercellular communication via the endo-lysosomal system: Translocation of granzymes through membrane barriers. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 59-67.	2.3	20
83	Analysis of the evolution of granule associated serine proteases of immune defence (GASPIDs) suggests a revised nomenclature. Biological Chemistry, 2014, 395, 1253-1262.	2.5	20
84	An unexpected incompatibility interaction between two plasmids belonging to the I compatibility complex. Plasmid, 1982, 8, 211-214.	1.4	19
85	A Renaissance in Understanding the Multiple and Diverse Functions of Granzymes?. Immunity, 2008, 29, 665-667.	14.3	19
86	The effects of exosite occupancy on the substrate specificity of thrombin. Archives of Biochemistry and Biophysics, 2009, 489, 48-54.	3.0	18
87	Detection of Active Granzyme A in NK92 Cells with Fluorescent Activity-Based Probe. Journal of Medicinal Chemistry, 2020, 63, 3359-3369.	6.4	18
88	A proâ€survival role for the intracellular granzyme B inhibitor Serpinb9 in natural killer cells during poxvirus infection. Immunology and Cell Biology, 2017, 95, 884-894.	2.3	17
89	Granzyme A Deficiency Breaks Immune Tolerance and Promotes Autoimmune Diabetes Through a Type I Interferonâ€"Dependent Pathway. Diabetes, 2017, 66, 3041-3050.	0.6	17
90	Absence of SERPINB6A Causes Sensorineural Hearing Loss with Multiple Histopathologies in the Mouse Inner Ear. American Journal of Pathology, 2013, 183, 49-59.	3.8	16

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91	A Natural Genetic Variant of Granzyme B Confers Lethality to a Common Viral Infection. PLoS Pathogens, 2014, 10, e1004526.	4.7	16
92	Granzyme Kâ€deficient mice show no evidence of impaired antiviral immunity. Immunology and Cell Biology, 2017, 95, 676-683.	2.3	16
93	Widespread discrepancy in Nnt genotypes and genetic backgrounds complicates granzyme A and other knockout mouse studies. ELife, 2022, 11, .	6.0	16
94	Serpinb9 (Spi6)â€deficient mice are impaired in dendritic cellâ€mediated antigen crossâ€presentation. Immunology and Cell Biology, 2012, 90, 841-851.	2.3	15
95	Î±1A- and Î±1B-adrenoceptors are the major subtypes in human saphenous vein. Life Sciences, 2001, 68, 1191-1198.	4.3	14
96	Conservation of the Extended Substrate Specificity Profiles Among Homologous Granzymes Across Species. Molecular and Cellular Proteomics, 2013, 12, 2921-2934.	3.8	14
97	Blessing or curse? Proteomics in granzyme research. Proteomics - Clinical Applications, 2014, 8, 351-381.	1.6	14
98	A Novel Serpin Regulatory Mechanism. Journal of Biological Chemistry, 2016, 291, 3626-3638.	3.4	13
99	Interaction of the nuclear localizing cytolytic granule serine protease granzyme B with importin Î± or Î²: Modulation by the serpin inhibitor PI-9. Journal of Cellular Biochemistry, 2005, 95, 598-610.	2.6	12
100	Mice Lacking Brinp2 or Brinp3, or Both, Exhibit Behaviors Consistent with Neurodevelopmental Disorders. Frontiers in Behavioral Neuroscience, 2016, 10, 196.	2.0	12
101	Neurodevelopmental MACPFs: The vertebrate astrotactins and BRINPs. Seminars in Cell and Developmental Biology, 2017, 72, 171-181.	5.0	12
102	Modulation and Redistribution of Proteinase Inhibitor 8 (Serpinb8) during Kidney Regeneration. American Journal of Nephrology, 2006, 26, 34-42.	3.1	9
103	Bone morphogenetic protein/retinoic acid inducible neural-specific protein (brinp) expression during Danio rerio development. Gene Expression Patterns, 2015, 18, 37-43.	0.8	9
104	Sequence, Organization, Chromosomal Localization, and Alternative Splicing of the Human Serine Protease Inhibitor Gene Hurpin (PI13) Which Is Upregulated in Psoriasis. DNA and Cell Biology, 2001, 20, 123-131.	1.9	8
105	The human serpin proteinase inhibitor-9 self-associates at physiological temperatures. Protein Science, 2004, 13, 1859-1864.	7.6	7
106	Use of granzyme B-based fluorescent protein reporters to monitor granzyme distribution and granule integrity in live cells. Biological Chemistry, 2010, 391, 999-1004.	2.5	7
107	Predicting Serpin/Protease Interactions. Methods in Enzymology, 2011, 501, 237-273.	1.0	7
108	Biological relevance of Granzymes A and K during E. coli sepsis. Theranostics, 2021, 11, 9873-9883.	10.0	7

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109	Preliminary analysis of the incompatibility determinant of a group B miniplasmid. Plasmid, 1985, 14, 90-92.	1.4	6
110	Distribution of serine proteinase inhibitor, clade B, member 6 (Serpinb6) in the adult mouse brain. Gene Expression Patterns, 2002, 1, 175-180.	0.8	5
111	Synthesis of â€œDifficultâ€•Fluorescence Quenched Substrates of Granzyme C. International Journal of Peptide Research and Therapeutics, 2010, 16, 159-165.	1.9	5
112	Cloning and characterising an unusual perforin from chicken (Gallus gallus). Developmental and Comparative Immunology, 2013, 41, 105-109.	2.3	5
113	Granule Leakage Induces Cell-Intrinsic, Granzyme B-Mediated Apoptosis in Mast Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 630166.	3.7	5
114	Analysis of Perforin Assembly by Quartz Crystal Microbalance Reveals a Role for Cholesterol and Calcium-independent Membrane Binding. Journal of Biological Chemistry, 2015, 290, 31101-31112.	3.4	4
115	Increased susceptibility to acoustic trauma in a mouse model of nonâ€syndromic sensorineural deafness, DFNB91. European Journal of Neuroscience, 2021, 53, 1638-1651.	2.6	4
116	Mpeg1 is not essential for antibacterial or antiviral immunity, but is implicated in antigen presentation. Immunology and Cell Biology, 2022, 100, 529-546.	2.3	4
117	A Versatile Monoclonal Antibody Specific to Human SERPINB5. Hybridoma, 2012, 31, 333-339.	0.4	3
118	A transgenic zebrafish model of hepatocyte function in human Z Î±1-antitrypsin deficiency. Biological Chemistry, 2019, 400, 1603-1616.	2.5	3
119	Mouse Serpins and Transgenic Studies. , 2007, , 101-129.		2
120	Intracellular Production of Recombinant Serpins in Yeast. Methods in Enzymology, 2011, 501, 1-12.	1.0	1
121	An Essential Role of Maspin in Embryogenesis and Tumor Suppressionâ€”Letter. Cancer Research, 2017, 77, 5207-5207.	0.9	1
122	Mice heterozygous for the Serpinb6a null mutation show deficits in central auditory function after acoustic trauma. NeuroReport, 2021, Publish Ahead of Print, 1287-1292.	1.2	1
123	Detection of Human and Mouse Granzyme B Activity in Cell Extracts. Methods in Molecular Biology, 2012, 844, 251-260.	0.9	1
124	Immunodetection of Granzyme B Tissue Distribution and Cellular Localisation. Methods in Molecular Biology, 2012, 844, 237-250.	0.9	1
125	Preface. Methods in Enzymology, 2011, 501, xvii-xviii.	1.0	0
126	Preface. Methods in Enzymology, 2011, 499, xix-xx.	1.0	0

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127	Cytotoxic T lymphocyteâ€“induced killing in the absence of granzymes A and B is unique and distinct from both apoptosis and perforin-dependent lysis. Journal of Experimental Medicine, 2006, 203, i9-i9.	8.5	0