

Phillip Ian Bird

List of Publications by Year in descending order

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127
papers

7,472
citations

57758

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137
all docs

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docs citations

137
times ranked

8116
citing authors

#	ARTICLE	IF	CITATIONS
1	The Serpins Are an Expanding Superfamily of Structurally Similar but Functionally Diverse Proteins. <i>Journal of Biological Chemistry</i> , 2001, 276, 33293-33296.	3.4	1,069
2	The structural basis for membrane binding and pore formation by lymphocyte perforin. <i>Nature</i> , 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. <i>Molecular and Cellular Biology</i> , 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. <i>Journal of Biological Chemistry</i> , 1996, 271, 27802-27809.	3.4	265
5	A Common Fold Mediates Vertebrate Defense and Bacterial Attack. <i>Science</i> , 2007, 317, 1548-1551.	12.6	261
6	The MACPF/CDC family of pore-forming toxins. <i>Cellular Microbiology</i> , 2008, 10, 1765-1774.	2.1	250
7	Extracellular Matrix Remodeling by Human Granzyme B via Cleavage of Vitronectin, Fibronectin, and Laminin. <i>Journal of Biological Chemistry</i> , 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. <i>Blood</i> , 2013, 121, 2659-2668.	1.4	208
9	The major human and mouse granzymes are structurally and functionally divergent. <i>Journal of Cell Biology</i> , 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. <i>Cell Reports</i> , 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. <i>Journal of Immunology</i> , 2003, 170, 805-815.	0.8	141
12	Serpins Flex Their Muscle. <i>Journal of Biological Chemistry</i> , 2010, 285, 24299-24305.	3.4	128
13	Endolysosomal proteases and their inhibitors in immunity. <i>Nature Reviews Immunology</i> , 2009, 9, 871-882.	22.7	114
14	A Central Role for Bid in Granzyme B-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 4476-4482.	3.4	111
15	Extracellular granzymes: current perspectives. <i>Biological Chemistry</i> , 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). <i>Journal of Biological Chemistry</i> , 1997, 272, 15434-15441.	3.4	104
17	Granzyme B Promotes Cytotoxic Lymphocyte Transmigration via Basement Membrane Remodeling. <i>Immunity</i> , 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. <i>Molecular and Cellular Biology</i> , 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. <i>PLoS Pathogens</i> , 2017, 13, e1006155.	4.7	98
20	Serpins Flex Their Muscle. <i>Journal of Biological Chemistry</i> , 2010, 285, 24307-24312.	3.4	97
21	Cytotoxic T lymphocyte-induced killing in the absence of granzymes A and B is unique and distinct from both apoptosis and perforin-dependent lysis. <i>Journal of Cell Biology</i> , 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. <i>Blood</i> , 1999, 93, 2089-2097.	1.4	77
23	A Role for Granzyme M in TLR4-Driven Inflammation and Endotoxiosis. <i>Journal of Immunology</i> , 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. <i>Cellular Immunology</i> , 2001, 210, 21-29.	3.0	75
25	Cationic Sites on Granzyme B Contribute to Cytotoxicity by Promoting Its Uptake into Target Cells. <i>Molecular and Cellular Biology</i> , 2005, 25, 7854-7867.	2.3	75
26	Hurpin Is a Selective Inhibitor of Lysosomal Cathepsin L and Protects Keratinocytes from Ultraviolet-Induced Apoptosis. <i>Biochemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 2005, 280, 22356-22364.	3.4	69
28	Importance of the P4 Residue in Human Granzyme B Inhibitors and Substrates Revealed by Scanning Mutagenesis of the Proteinase Inhibitor 9 Reactive Center Loop. <i>Journal of Biological Chemistry</i> , 2001, 276, 15177-15184.	3.4	68
29	Granzyme B leakage-induced cell death: a new type of activation-induced natural killer cell death. <i>European Journal of Immunology</i> , 2003, 33, 3284-3292.	2.9	66
30	The cryo-EM structure of the acid activatable pore-forming immune effector Macrophage-expressed gene 1. <i>Nature Communications</i> , 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. <i>Molecular Immunology</i> , 2008, 45, 670-677.	2.2	64
32	Are all granzymes cytotoxic <i>in vivo</i> ?. <i>Biological Chemistry</i> , 2014, 395, 181-202.	2.5	64
33	Cathepsin H Is an Additional Convertase of Pro-granzyme B. <i>Journal of Biological Chemistry</i> , 2010, 285, 20514-20519.	3.4	62
34	Expression and Purification of Recombinant Human Granzyme B from <i>Pichia pastoris</i> . <i>Biochemical and Biophysical Research Communications</i> , 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. <i>Cancer Research</i> , 2004, 64, 400-405.	0.9	58
36	Serpins and Regulation of Cell Death. <i>Results and Problems in Cell Differentiation</i> , 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. <i>Genomics</i> , 2002, 79, 349-362.	2.9	57
38	Granzyme B-Mediated Death of Pancreatic β -Cells Requires the Proapoptotic BH3-Only Molecule Bid. <i>Diabetes</i> , 2006, 55, 2212-2219.	0.6	56
39	Epigenetic control of mitochondrial cell death through PACS1-mediated regulation of BAX/BAK oligomerization. <i>Cell Death and Differentiation</i> , 2017, 24, 961-970.	11.2	52
40	Distinct Membrane and Cytosolic Forms of Inositol Polyphosphate 5-Phosphatase II. <i>Journal of Biological Chemistry</i> , 1998, 273, 8256-8267.	3.4	51
41	Characterization of Four Murine Homologs of the Human ov-serpin Monocyte Neutrophil Elastase Inhibitor MNEI (SERPINB1). <i>Journal of Biological Chemistry</i> , 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. <i>Molecular and Cellular Biology</i> , 2004, 24, 4075-4082.	2.3	49
43	Antihemostatic Activity of Human Granzyme B Mediated by Cleavage of von Willebrand Factor. <i>Journal of Biological Chemistry</i> , 2008, 283, 22498-22504.	3.4	46
44	Characterization of Lgr5+ progenitor cell transcriptomes in the apical and basal turns of the mouse cochlea. <i>Oncotarget</i> , 0, 7, 41123-41141.	1.8	46
45	The use of mini-Gal plasmids for rapid incompatibility grouping of conjugative R plasmids. <i>Plasmid</i> , 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. <i>Journal of Biological Chemistry</i> , 2006, 281, 30485-30491.	3.4	45
47	Human Ovalbumin Serpin Evolution: Phylogenetic Analysis, Gene Organization, and Identification of New PI8-Related Genes Suggest That Two Interchromosomal and Several Intrachromosomal Duplications Generated the Gene Clusters at 18q21-q23 and 6p25. <i>Genomics</i> , 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. <i>BMC Evolutionary Biology</i> , 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. <i>Immunology and Cell Biology</i> , 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. <i>Journal of Biological Chemistry</i> , 2009, 284, 5137-5147.	3.4	41
51	Serine Proteinase Inhibitor 3 and Murinoglobulin I Are Potent Inhibitors of Neuropsin in Adult Mouse Brain. <i>Journal of Biological Chemistry</i> , 2001, 276, 14562-14571.	3.4	39
52	Production of serpins using yeast expression systems. <i>Methods</i> , 2004, 32, 185-190.	3.8	39
53	Serpins: Finely Balanced Conformational Traps. <i>IUBMB Life</i> , 2002, 54, 1-7.	3.4	38
54	Maspin (SERPINB5) Is an Obligat Intracellular Serpin. <i>Journal of Biological Chemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 2005, 280, 39510-39514.	3.4	36
56	Epigenetic heterochromatin markers distinguish terminally differentiated leukocytes from incompletely differentiated leukemia cells in human blood. <i>Experimental Hematology</i> , 2006, 34, 453-462.	0.4	36
57	Tissue Distribution and Intracellular Localisation of the 75-kDa Inositol Polyphosphate 5-Phosphatase. <i>FEBS Journal</i> , 1995, 234, 216-224.	0.2	34
58	Extracellular Granzyme A Promotes Colorectal Cancer Development by Enhancing Gut Inflammation. <i>Cell Reports</i> , 2020, 32, 107847.	6.4	34
59	Granzyme B Encoded by the Commonly Occurring Human RAH Allele Retains Pro-apoptotic Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 16907-16911.	3.4	33
60	Analysis of vertebrate genomes suggests a new model for clade B serpin evolution. <i>BMC Genomics</i> , 2005, 6, 167.	2.8	32
61	Mechanisms of serpin dysfunction in disease. <i>Expert Reviews in Molecular Medicine</i> , 2006, 8, 1-19.	3.9	32
62	Noninvasive optical detection of granzyme B from natural killer cells with enzyme-activated fluorogenic probes. <i>Journal of Biological Chemistry</i> , 2020, 295, 9567-9582.	3.4	32
63	Brinp1 $\alpha^{\sim}/\alpha^{\sim}$ mice exhibit autism-like behaviour, altered memory, hyperactivity and increased parvalbumin-positive cortical interneuron density. <i>Molecular Autism</i> , 2016, 7, 22.	4.9	31
64	Recombinant Caspase-3 Expressed in <i>Pichia pastoris</i> Fully Activated and Kinetically Indistinguishable from the Native Enzyme. <i>Biochemical and Biophysical Research Communications</i> , 1997, 238, 920-924.	2.1	30
65	Maspin is not required for embryonic development or tumour suppression. <i>Nature Communications</i> , 2014, 5, 3164.	12.8	30
66	The Perforin Pore Facilitates the Delivery of Cationic Cargos. <i>Journal of Biological Chemistry</i> , 2014, 289, 9172-9181.	3.4	30
67	Granzyme A in Chikungunya and Other Arboviral Infections. <i>Frontiers in Immunology</i> , 2019, 10, 3083.	4.8	30
68	Probing the Efficiency of Proteolytic Events by Positional Proteomics. <i>Molecular and Cellular Proteomics</i> , 2011, 10, S1-S10.	3.8	28
69	Identification of AHNAK as a Novel Autoantigen in Systemic Lupus Erythematosus. <i>Biochemical and Biophysical Research Communications</i> , 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. <i>Genesis</i> , 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. <i>Journal of Biological Chemistry</i> , 2014, 289, 9408-9417.	3.4	27
72	Granzyme K Expressed by Classically Activated Macrophages Contributes to Inflammation and Impaired Remodeling. <i>Journal of Investigative Dermatology</i> , 2019, 139, 930-939.	0.7	26

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73	Production of recombinant serpins in Escherichia coli. <i>Methods</i> , 2004, 32, 169-176.	3.8	25
74	Structure of granzyme C reveals an unusual mechanism of protease autoinhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5587-5592.	7.1	25
75	SerpinB6 is an Inhibitor of Kallikrein-8 in Keratinocytes. <i>Journal of Biochemistry</i> , 2007, 142, 435-442.	1.7	24
76	Expression, purification and characterization of recombinant Z α 1-Antitrypsin. The most common cause of α 1-Antitrypsin deficiency. <i>Protein Expression and Purification</i> , 2009, 68, 226-232.	1.3	23
77	SerpinB1 controls encephalitogenic T helper cells in neuroinflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Plasmid</i> , 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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 115-126.	2.6	22
80	Granzyme A inhibition reduces inflammation and increases survival during abdominal sepsis. <i>Theranostics</i> , 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. <i>Experimental Cell Research</i> , 1998, 245, 263-271.	2.6	20
82	Intercellular communication via the endo-lysosomal system: Translocation of granzymes through membrane barriers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 59-67.	2.3	20
83	Analysis of the evolution of granule associated serine proteases of immune defence (GASPs) suggests a revised nomenclature. <i>Biological Chemistry</i> , 2014, 395, 1253-1262.	2.5	20
84	An unexpected incompatibility interaction between two plasmids belonging to the I compatibility complex. <i>Plasmid</i> , 1982, 8, 211-214.	1.4	19
85	A Renaissance in Understanding the Multiple and Diverse Functions of Granzymes?. <i>Immunity</i> , 2008, 29, 665-667.	14.3	19
86	The effects of exosite occupancy on the substrate specificity of thrombin. <i>Archives of Biochemistry and Biophysics</i> , 2009, 489, 48-54.	3.0	18
87	Detection of Active Granzyme A in NK92 Cells with Fluorescent Activity-Based Probe. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3359-3369.	6.4	18
88	A pro-survival role for the intracellular granzyme B inhibitor Serpinb9 in natural killer cells during poxvirus infection. <i>Immunology and Cell Biology</i> , 2017, 95, 884-894.	2.3	17
89	Granzyme A Deficiency Breaks Immune Tolerance and Promotes Autoimmune Diabetes Through a Type I Interferon-Dependent Pathway. <i>Diabetes</i> , 2017, 66, 3041-3050.	0.6	17
90	Absence of SERPINB6A Causes Sensorineural Hearing Loss with Multiple Histopathologies in the Mouse Inner Ear. <i>American Journal of Pathology</i> , 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 K-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	Serpinc9 (Spi6)-deficient mice are impaired in dendritic cell-mediated antigen cross-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 Brin2 or Brin3, 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 (Serpinc8) 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 <i>E. coli</i> 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. <i>Plasmid</i> , 1985, 14, 90-92.	1.4	6
110	Distribution of serine proteinase inhibitor, clade B, member 6 (Serpinb6) in the adult mouse brain. <i>Gene Expression Patterns</i> , 2002, 1, 175-180.	0.8	5
111	Synthesis of "Difficult" Fluorescence Quenched Substrates of Granzyme C. <i>International Journal of Peptide Research and Therapeutics</i> , 2010, 16, 159-165.	1.9	5
112	Cloning and characterising an unusual perforin from chicken (<i>Gallus gallus</i>). <i>Developmental and Comparative Immunology</i> , 2013, 41, 105-109.	2.3	5
113	Granule Leakage Induces Cell-Intrinsic, Granzyme B-Mediated Apoptosis in Mast Cells. <i>Frontiers in Cell and Developmental Biology</i> , 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. <i>Journal of Biological Chemistry</i> , 2015, 290, 31101-31112.	3.4	4
115	Increased susceptibility to acoustic trauma in a mouse model of non-syndromic sensorineural deafness, DFNB91. <i>European Journal of Neuroscience</i> , 2021, 53, 1638-1651.	2.6	4
116	Mpeg1 is not essential for antibacterial or antiviral immunity, but is implicated in antigen presentation. <i>Immunology and Cell Biology</i> , 2022, 100, 529-546.	2.3	4
117	A Versatile Monoclonal Antibody Specific to Human SERPINB5. <i>Hybridoma</i> , 2012, 31, 333-339.	0.4	3
118	A transgenic zebrafish model of hepatocyte function in human Z α 1-antitrypsin deficiency. <i>Biological Chemistry</i> , 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. <i>Methods in Enzymology</i> , 2011, 501, 1-12.	1.0	1
121	An Essential Role of Maspin in Embryogenesis and Tumor Suppression"Letter. <i>Cancer Research</i> , 2017, 77, 5207-5207.	0.9	1
122	Mice heterozygous for the Serpinb6a null mutation show deficits in central auditory function after acoustic trauma. <i>NeuroReport</i> , 2021, Publish Ahead of Print, 1287-1292.	1.2	1
123	Detection of Human and Mouse Granzyme B Activity in Cell Extracts. <i>Methods in Molecular Biology</i> , 2012, 844, 251-260.	0.9	1
124	Immunodetection of Granzyme B Tissue Distribution and Cellular Localisation. <i>Methods in Molecular Biology</i> , 2012, 844, 237-250.	0.9	1
125	Preface. <i>Methods in Enzymology</i> , 2011, 501, xvii-xviii.	1.0	0
126	Preface. <i>Methods in Enzymology</i> , 2011, 499, xix-xx.	1.0	0

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