Mark D Hulett

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Defensinâ€“lipid interactions in membrane targeting: mechanisms of action and opportunities for the development of antimicrobial and anticancer therapeutics. Biochemical Society Transactions, 2022, 50, 423-437.	3.4	6
2	Human Î²-Defensin 2 (HBD-2) Displays Oncolytic Activity but Does Not Affect Tumour Cell Migration. Biomolecules, 2022, 12, 264.	4.0	9
3	Cytotoxic properties of rhenium(<scp>i</scp>) tricarbonyl complexes of N-heterocyclic carbene ligands. Dalton Transactions, 2022, 51, 7630-7643.	3.3	3
4	Neurotoxic amyloidogenic peptides in the proteome of SARS-COV2: potential implications for neurological symptoms in COVID-19. Nature Communications, 2022, 13, .	12.8	41
5	Editorial: Advances in the Immunology of Host Defense Peptide: Mechanisms and Applications of Antimicrobial Functions and Beyond. Frontiers in Immunology, 2021, 12, 637641.	4.8	4
6	Towards novel herbicide modes of action by inhibiting lysine biosynthesis in plants. ELife, 2021, 10, .	6.0	15
7	The Heparanase Regulatory Network in Health and Disease. International Journal of Molecular Sciences, 2021, 22, 11096.	4.1	22
8	Heparanase is a regulator of natural killer cell activation and cytotoxicity. Journal of Leukocyte Biology, 2021, , .	3.3	4
9	ROCK1 but not LIMK1 or PAK2 is a key regulator of apoptotic membrane blebbing and cell disassembly. Cell Death and Differentiation, 2020, 27, 102-116.	11.2	40
10	Deubiquitinase enzyme STAMBP plays a broad role in both Toll-like and Nod-like receptor mediated inflammation. European Journal of Inflammation, 2020, 18, 205873922096084.	0.5	0
11	TREML4 receptor regulates inflammation and innate immune cell death during polymicrobial sepsis. Nature Immunology, 2020, 21, 1585-1596.	14.5	36
12	Heparanase and the hallmarks of cancer. Journal of Translational Medicine, 2020, 18, 453.	4.4	78
13	Monocyte apoptotic bodies are vehicles for influenza A virus propagation. Communications Biology, 2020, 3, 223.	4.4	20
14	Heparanase: Cloning, Function and Regulation. Advances in Experimental Medicine and Biology, 2020, 1221, 189-229.	1.6	9
15	A 4-cyano-3-methylisoquinoline inhibitor of Plasmodium falciparum growth targets the sodium efflux pump PfATP4. Scientific Reports, 2019, 9, 10292.	3.3	20
16	Plexin B2 Is a Regulator of Monocyte Apoptotic Cell Disassembly. Cell Reports, 2019, 29, 1821-1831.e3.	6.4	28
17	Combating Human Pathogens and Cancer byÂTargeting Phosphoinositides and Their Metabolism. Trends in Pharmacological Sciences, 2019, 40, 866-882.	8.7	10
18	Defining the role of cytoskeletal components in the formation of apoptopodia and apoptotic bodies during apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2019, 24, 862-877.	4.9	15

#	Article	IF	Citations
19	Luminescent iridium(<scp>iii</scp>) complexes of N-heterocyclic carbene ligands prepared using the â€˜click reactionâ€™. Dalton Transactions, 2019, 48, 9998-10010.	3.3	20
20	Analysis of extracellular vesicles generated from monocytes under conditions of lytic cell death. Scientific Reports, 2019, 9, 7538.	3.3	39
21	Moving beyond size and phosphatidylserine exposure: evidence for a diversity of apoptotic cellâ€derived extracellular vesicles <i>in vitro</i>. Journal of Extracellular Vesicles, 2019, 8, 1608786.	12.2	98
22	Leukocyte Heparanase: A Double-Edged Sword in Tumor Progression. Frontiers in Oncology, 2019, 9, 331.	2.8	25
23	Salt-Tolerant Antifungal and Antibacterial Activities of the Corn Defensin ZmD32. Frontiers in Microbiology, 2019, 10, 795.	3.5	45
24	Structural and functional characterization of the membraneâ€permeabilizing activity of <i>Nicotiana occidentalis</i> defensin NoD173 and protein engineering to enhance oncolysis. FASEB Journal, 2019, 33, 6470-6482.	0.5	18
25	Phosphoinositides: multipurpose cellular lipids with emerging roles in cell death. Cell Death and Differentiation, 2019, 26, 781-793.	11.2	33
26	Endothelial cell apoptosis and the role of endothelial cell-derived extracellular vesicles in the progression of atherosclerosis. Cellular and Molecular Life Sciences, 2019, 76, 1093-1106.	5.4	199
27	Importance of phosphoinositide binding by human Î²â€defensin 3 for Aktâ€dependent cytokine induction. Immunology and Cell Biology, 2018, 96, 54-67.	2.3	11
28	Gasdermin E Does Not Limit Apoptotic Cell Disassembly by Promoting Early Onset of Secondary Necrosis in Jurkat T Cells and THP-1 Monocytes. Frontiers in Immunology, 2018, 9, 2842.	4.8	32
29	X-ray structure of a carpet-like antimicrobial defensinâ€“phospholipid membrane disruption complex. Nature Communications, 2018, 9, 1962.	12.8	50
30	Human Î²-defensin 2 kills <i>Candida albicans</i> through phosphatidylinositol 4,5-bisphosphateâ€“mediated membrane permeabilization. Science Advances, 2018, 4, eaat0979.	10.3	40
31	Defining the morphologic features and products of cell disassembly during apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2017, 22, 475-477.	4.9	54
32	Isolation of cell type-specific apoptotic bodies by fluorescence-activated cell sorting. Scientific Reports, 2017, 7, 39846.	3.3	68
33	The plant defensin NaD1 induces tumor cell death via a non-apoptotic, membranolytic process. Cell Death Discovery, 2017, 3, 16102.	4.7	29
34	The lure of the lipids: how defensins exploit membrane phospholipids to induce cytolysis in target cells. Cell Death and Disease, 2017, 8, e2712-e2712.	6.3	12
35	Divalent metal binding by histidineâ€rich glycoprotein differentially regulates higher order oligomerisation and proteolytic processing. FEBS Letters, 2017, 591, 164-176.	2.8	8
36	Tumor cell membrane-targeting cationic antimicrobial peptides: novel insights into mechanisms of action and therapeutic prospects. Cellular and Molecular Life Sciences, 2017, 74, 3809-3825.	5.4	94

#	Article	IF	Citations
37	Determining the contents and cell origins of apoptotic bodies by flow cytometry. Scientific Reports, 2017, 7, 14444.	3.3	84
38	Convergent evolution of defensin sequence, structure and function. Cellular and Molecular Life Sciences, 2017, 74, 663-682.	5.4	152
39	Structural and Functional Insight into Canarypox Virus CNP058 Mediated Regulation of Apoptosis. Viruses, 2017, 9, 305.	3.3	20
40	Functional Regulation of the Plasma Protein Histidine-Rich Glycoprotein by Zn2+ in Settings of Tissue Injury. Biomolecules, 2017, 7, 22.	4.0	23
41	Structure of the defensin NsD7 in complex with <scp>PIP</scp>₂ reveals that defensinÂ:Âlipid oligomer topologies are dependent on lipid type. FEBS Letters, 2017, 591, 2482-2490.	2.8	13
42	NK cell heparanase controls tumor invasion and immune surveillance. Journal of Clinical Investigation, 2017, 127, 2777-2788.	8.2	85
43	Human Î²-defensin 3 contains an oncolytic motif that binds PI(4,5)P2 to mediate tumour cell permeabilisation. Oncotarget, 2016, 7, 2054-2069.	1.8	44
44	Access to the Parent Tetrakis(pyridine)gold(III) Trication, Facile Formation of Rare Au(III) Terminal Hydroxides, and Preliminary Studies of Biological Properties. Inorganic Chemistry, 2016, 55, 2830-2839.	4.0	12
45	Monitoring the progression of cell death and the disassembly of dying cells by flow cytometry. Nature Protocols, 2016, 11, 655-663.	12.0	94
46	Nicotiana alata Defensin Chimeras Reveal Differences in the Mechanism of Fungal and Tumor Cell Killing and an Enhanced Antifungal Variant. Antimicrobial Agents and Chemotherapy, 2016, 60, 6302-6312.	3.2	51
47	Binding of phosphatidic acid by NsD7 mediates the formation of helical defensinâ€"lipid oligomeric assemblies and membrane permeabilization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11202-11207.	7.1	48
48	The Defensins Consist of Two Independent, Convergent Protein Superfamilies. Molecular Biology and Evolution, 2016, 33, 2345-2356.	8.9	123
49	The MS4A family: counting past 1, 2 and 3. Immunology and Cell Biology, 2016, 94, 11-23.	2.3	105
50	The plant defensin NaD1 introduces membrane disorder through a specific interaction with the lipid, phosphatidylinositol 4,5 bisphosphate. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1099-1109.	2.6	52
51	The relationship between CCR6 and its binding partners: Does the CCR6â€"CCL20 axis have to be extended?. Cytokine, 2015, 72, 97-101.	3.2	48
52	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. Nature Communications, 2015, 6, 7439.	12.8	267
53	The Tomato Defensin TPP3 Binds Phosphatidylinositol (4,5)-Bisphosphate via a Conserved Dimeric Cationic Grip Conformation To Mediate Cell Lysis. Molecular and Cellular Biology, 2015, 35, 1964-1978.	2.3	84
54	Soluble Heparan Sulfate Fragments Generated by Heparanase Trigger the Release of Pro-Inflammatory Cytokines through TLR-4. PLoS ONE, 2014, 9, e109596.	2.5	187

#	Article	IF	Citations
55	Phosphoinositide-mediated oligomerization of a defensin induces cell lysis. ELife, 2014, 3, e01808.	6.0	167
56	Mice deficient in heparanase exhibit impaired dendritic cell migration and reduced airway inflammation. European Journal of Immunology, 2014, 44, 1016-1030.	2.9	38
57	Comparative proteomics evaluation of plasma exosome isolation techniques and assessment of the stability of exosomes in normal human blood plasma. Proteomics, 2013, 13, 3354-3364.	2.2	501
58	New method for purifying histidineâ€rich glycoprotein from human plasma redefines its functional properties. IUBMB Life, 2013, 65, 550-563.	3.4	16
59	The endoglycosidase heparanase enters the nucleus of T lymphocytes and modulates H3 methylation at actively transcribed genes via the interplay with key chromatin modifying enzymes. Transcription, 2012, 3, 130-145.	3.1	58
60	Crystallization and preliminary X-ray crystallographic analysis of the plant defensin NaD1. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 85-88.	0.7	11
61	Dimerization of Plant Defensin NaD1 Enhances Its Antifungal Activity. Journal of Biological Chemistry, 2012, 287, 19961-19972.	3.4	71
62	Recombinant expression and purification of the tomato defensin TPP3 and its preliminary X-ray crystallographic analysis. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 314-316.	0.7	11
63	Human mast cell line-1 (HMC-1) cells transfected with FcÎµRIÎ± are sensitive to IgE/antigen-mediated stimulation demonstrating selectivity towards cytokine production. International Immunopharmacology, 2011, 11, 1002-1011.	3.8	20
64	Histidine-rich glycoprotein: the Swiss Army knife of mammalian plasma. Blood, 2011, 117, 2093-2101.	1.4	179
65	Histidine-rich glycoprotein is a novel plasma pattern recognition molecule that recruits IgG to facilitate necrotic cell clearance via FcÎ³RI on phagocytes. Blood, 2010, 115, 2473-2482.	1.4	41
66	Histidine-rich glycoprotein functions cooperatively with cell surface heparan sulfate on phagocytes to promote necrotic cell uptake. Journal of Leukocyte Biology, 2010, 88, 559-569.	3.3	21
67	Histidine-rich glycoprotein binds heparanase and regulates its enzymatic activity and cell surface interactions. International Journal of Biochemistry and Cell Biology, 2010, 42, 1507-1516.	2.8	11
68	Regulation of histidine-rich glycoprotein (HRG) function via plasmin-mediated proteolytic cleavage. Biochemical Journal, 2009, 424, 27-37.	3.7	19
69	Bystander B cells rapidly acquire antigen receptors from activated B cells by membrane transfer. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4259-4264.	7.1	54
70	Cell Surface-expressed Cation-independent Mannose 6-Phosphate Receptor (CD222) Binds Enzymatically Active Heparanase Independently of Mannose 6-Phosphate to Promote Extracellular Matrix Degradation. Journal of Biological Chemistry, 2008, 283, 4165-4176.	3.4	46
71	Perceptions in health and medical research careers: the Australian Society for Medical Research Workforce Survey. Medical Journal of Australia, 2008, 188, 520-524.	1.7	15
72	Expression of the heparan sulfate-degrading enzyme heparanase is induced in infiltrating CD4+ T cells in experimental autoimmune encephalomyelitis and regulated at the level of transcription by early growth response gene. Journal of Leukocyte Biology, 2007, 82, 1289-1300.	3.3	42

#	Article	IF	Citations
73	Bystander B cells rapidly acquire antigen receptors from activated B cells by membrane transfer: a novel mechanism for enhancing specific antigen presentation. Nature Precedings, 2007, , .	0.1	1
74	Regulation of mouse Heparanase gene expression in T lymphocytes and tumor cells. Immunology and Cell Biology, 2007, 85, 205-214.	2.3	11
75	Cell surface expression of a peptide encoded by the unrearranged TCR-VÎ²8.2 gene. Molecular Immunology, 2006, 43, 1408-1417.	2.2	3
76	Injury-inducible yin yang-1 inhibits vascular smooth muscle cell growth and intimal thickening by repressing P21WAF1/CIP1 transcription and perturbing cyclin D1-CDK4-P21WAF1/CIP1 assembly. Vascular Pharmacology, 2006, 45, e46-e47.	2.1	0
77	ICAM-1-dependent pathways regulate colonic eosinophilic inflammation. Journal of Leukocyte Biology, 2006, 80, 330-341.	3.3	48
78	Histidineâ€rich glycoprotein: A novel adaptor protein in plasma that modulates the immune, vascular and coagulation systems. Immunology and Cell Biology, 2005, 83, 106-118.	2.3	268
79	Histidine-rich Glycoprotein Specifically Binds to Necrotic Cells via Its Amino-terminal Domain and Facilitates Necrotic Cell Phagocytosis. Journal of Biological Chemistry, 2005, 280, 35733-35741.	3.4	32
80	Early Growth Response Gene 1 (EGR1) Regulates Heparanase Gene Transcription in Tumor Cells. Journal of Biological Chemistry, 2005, 280, 35136-35147.	3.4	72
81	Plasminogen Is Tethered with High Affinity to the Cell Surface by the Plasma Protein, Histidine-rich Glycoprotein. Journal of Biological Chemistry, 2004, 279, 38267-38276.	3.4	43
82	Histidine-rich Glycoprotein Binds to Cell-surface Heparan Sulfate via Its N-terminal Domain following Zn2+ Chelation. Journal of Biological Chemistry, 2004, 279, 30114-30122.	3.4	58
83	Regulation of Inducible Heparanase Gene Transcription in Activated T Cells by Early Growth Response 1. Journal of Biological Chemistry, 2003, 278, 50377-50385.	3.4	71
84	Immunotherapy of Cytotoxic T Cellâ€“resistant Tumors by T Helper 2 Cells. Journal of Experimental Medicine, 2003, 197, 387-393.	8.5	213
85	Mutagenesis Within Human FcÎµRIÎ± Differentially Affects Human and Murine IgE Binding. Journal of Immunology, 2002, 168, 1787-1795.	0.8	12
86	Isolation, Tissue Distribution, and Chromosomal Localization of a Novel Testis-Specific Human Four-Transmembrane Gene Related to CD20 and FcÎµRI-Î². Biochemical and Biophysical Research Communications, 2001, 280, 374-379.	2.1	15
87	Cloning and characterization of a mouse homologue of the human haematopoietic cellâ€specific fourâ€transmembrane geneHTm4. Immunology and Cell Biology, 2001, 79, 345-349.	2.3	7
88	Heparanase: a key enzyme involved in cell invasion. Biochimica Et Biophysica Acta: Reviews on Cancer, 2001, 1471, M99-M108.	7.4	264
89	Murine histidine-rich glycoprotein: Cloning, characterization and cellular origin. Immunology and Cell Biology, 2000, 78, 280-287.	2.3	34
90	Domain One of the High Affinity IgE Receptor, FcÎµRI, Regulates Binding to IgE through Its Interface with Domain Two. Journal of Biological Chemistry, 2000, 275, 9664-9672.	3.4	13

#	Article	IF	Citations
91	Identification of Active-Site Residues of the Pro-Metastatic Endoglycosidase Heparanaseâ€. Biochemistry, 2000, 39, 15659-15667.	2.5	150
92	Fine Structure Analysis of Interaction of FcÎµRI with IgE. Journal of Biological Chemistry, 1999, 274, 13345-13352.	3.4	29
93	Cloning of mammalian heparanase, an important enzyme in tumor invasion and metastasis. Nature Medicine, 1999, 5, 803-809.	30.7	501
94	Crystal structure of the human leukocyte Fc receptor, Fc gammaRIIa. Nature Structural Biology, 1999, 6, 437-442.	9.7	169
95	The second and third extracellular domains of Fc Î³ RI (CD64) confer the unique high affinity binding of IgG2a. Molecular Immunology, 1998, 35, 989-996.	2.2	49
96	The Structural Basis of the Interaction of IgE and FcÎµRI. Molecular Biology Intelligence Unit, 1997, , 7-32.	0.2	3
97	Immunoglobulin Fc receptors. Biomembranes: A Multi-Volume Treatise, 1996, , 269-314.	0.1	0
98	Cloning and expression of the recombinant mouse natural killer cell granzymeMet-ase-1. Immunogenetics, 1996, 44, 340-350.	2.4	27
99	Redirected Cytotoxic Effector Function. Journal of Biological Chemistry, 1996, 271, 21214-21220.	3.4	12
100	Cloning and expression of the recombinant mouse natural killer cell granzyme Met-ase-1. Immunogenetics, 1996, 44, 340-350.	2.4	8
101	Multiple Regions of Human FcÎ³RII (CD32) Contribute to the Binding of IgG. Journal of Biological Chemistry, 1995, 270, 21188-21194.	3.4	64
102	Characterization of FcR Ig-Binding Sites and Epitope Mapping. ImmunoMethods, 1994, 4, 17-24.	0.8	8
103	Molecular Basis of Fc Receptor Function. Advances in Immunology, 1994, 57, 1-127.	2.2	452
104	Use of the 5â€² -flanking region of the mouse perforin gene to express human FcÎ³ receptor I in cytotoxic T lymphocytes. Journal of Leukocyte Biology, 1994, 55, 514-522.	3.3	7
105	Chimeric Fc receptors identify immunoglobulin-binding regions in human FcÎ³RII and FcÎµRI. European Journal of Immunology, 1993, 23, 640-645.	2.9	57
106	FcÎ³ receptors: Gene structure and receptor function. Immunologic Research, 1992, 11, 217-225.	2.9	18