

Joy M Burchell

List of Publications by Year in descending order

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106
papers

10,169
citations

30047

54
h-index

34964

98
g-index

114
all docs

114
docs citations

114
times ranked

8772
citing authors

#	ARTICLE	IF	CITATIONS
1	Monoclonal antibodies to epithelium-specific components of the human milk fat globule membrane: Production and reaction with cells in culture. <i>International Journal of Cancer</i> , 1981, 28, 17-21.	2.3	571
2	Critical research gaps and translational priorities for the successful prevention and treatment of breast cancer. <i>Breast Cancer Research</i> , 2013, 15, R92.	2.2	320
3	A core protein epitope of the polymorphic epithelial mucin detected by the monoclonal antibody SM-3 is selectively exposed in a range of primary carcinomas. <i>International Journal of Cancer</i> , 1989, 43, 1072-1076.	2.3	318
4	Mechanisms Underlying Aberrant Glycosylation of MUC1 Mucin in Breast Cancer Cells. <i>FEBS Journal</i> , 1995, 233, 607-617.	0.2	305
5	Comparison of O-Linked Carbohydrate Chains in MUC-1 Mucin from Normal Breast Epithelial Cell Lines and Breast Carcinoma Cell Lines. <i>Journal of Biological Chemistry</i> , 1996, 271, 33325-33334.	1.6	296
6	Mammosphere culture of metastatic breast cancer cells enriches for tumorigenic breast cancer cells. <i>Breast Cancer Research</i> , 2008, 10, R52.	2.2	295
7	Retargeting of Human T Cells to Tumor-Associated MUC1: The Evolution of a Chimeric Antigen Receptor. <i>Journal of Immunology</i> , 2008, 180, 4901-4909.	0.4	294
8	Substrate Specificities of Three Members of the Human UDP-N-Acetyl- β -D-galactosamine:Polypeptide N-Acetylgalactosaminyltransferase Family, GalNAc-T1, -T2, and -T3. <i>Journal of Biological Chemistry</i> , 1997, 272, 23503-23514.	1.6	279
9	The mucin MUC1 modulates the tumor immunological microenvironment through engagement of the lectin Siglec-9. <i>Nature Immunology</i> , 2016, 17, 1273-1281.	7.0	277
10	Cloning of partial cDNA encoding differentiation and tumor-associated mucin glycoproteins expressed by human mammary epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 6060-6064.	3.3	266
11	A short sequence, within the amino acid tandem repeat of a cancer-associated mucin, contains immunodominant epitopes. <i>International Journal of Cancer</i> , 1989, 44, 691-696.	2.3	234
12	Chemoenzymatically synthesized multimeric Tn/STn MUC1 glycopeptides elicit cancer-specific anti-MUC1 antibody responses and override tolerance. <i>Glycobiology</i> , 2006, 16, 96-107.	1.3	233
13	Cancer Biomarkers Defined by Autoantibody Signatures to Aberrant O-Glycopeptide Epitopes. <i>Cancer Research</i> , 2010, 70, 1306-1313.	0.4	227
14	The ST6GalNAc-I Sialyltransferase Localizes throughout the Golgi and Is Responsible for the Synthesis of the Tumor-associated Sialyl-Tn O-Glycan in Human Breast Cancer. <i>Journal of Biological Chemistry</i> , 2006, 281, 3586-3594.	1.6	210
15	An α 2,3 sialyltransferase (ST3Gal I) is elevated in primary breast carcinomas. <i>Glycobiology</i> , 1999, 9, 1307-1311.	1.3	209
16	Tumour-associated carbohydrate antigens in breast cancer. <i>Breast Cancer Research</i> , 2010, 12, 204.	2.2	200
17	Cloning of a Human UDP-N-Acetyl- β -D-Galactosamine:PolypeptideN-Acetylgalactosaminyltransferase That Complements Other GalNAc-Transferases in Complete O-Glycosylation of the MUC1 Tandem Repeat. <i>Journal of Biological Chemistry</i> , 1998, 273, 30472-30481.	1.6	196
18	O-linked glycosylation in the mammary gland: changes that occur during malignancy. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2001, 6, 355-364.	1.0	196

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19	PLU-1 nuclear protein, which is upregulated in breast cancer, shows restricted expression in normal human adult tissues: A new cancer/testis antigen?. <i>International Journal of Cancer</i> , 2002, 101, 581-588.	2.3	190
20	Structure and Biology of a Carcinoma-associated Mucin, MUC1. <i>The American Review of Respiratory Disease</i> , 1991, 144, S42-S47.	2.9	179
21	Identification of a novel cancer-specific immunodominant glycopeptide epitope in the MUC1 tandem repeat. <i>Glycobiology</i> , 2007, 17, 197-209.	1.3	171
22	Selectin Ligand Sialyl-Lewis x Antigen Drives Metastasis of Hormone-Dependent Breast Cancers. <i>Cancer Research</i> , 2011, 71, 7683-7693.	0.4	171
23	Functional Conservation of Subfamilies of Putative UDP-N-acetylgalactosamine:Polypeptide N-Acetylgalactosaminyltransferases in <i>Drosophila</i> , <i>Caenorhabditis elegans</i> , and Mammals. <i>Journal of Biological Chemistry</i> , 2002, 277, 22623-22638.	1.6	168
24	The Relative Activities of the C2GnT1 and ST3Gal-I Glycosyltransferases Determine O-Glycan Structure and Expression of a Tumor-associated Epitope on MUC1. <i>Journal of Biological Chemistry</i> , 2001, 276, 11007-11015.	1.6	165
25	Autoantibodies to aberrantly glycosylated MUC1 in early stage breast cancer are associated with a better prognosis. <i>Breast Cancer Research</i> , 2011, 13, R25.	2.2	165
26	The Lectin Domain of UDP-N-acetyl-d-galactosamine:PolypeptideN-acetylgalactosaminyltransferase-T4 Directs Its Glycopeptide Specificities. <i>Journal of Biological Chemistry</i> , 2000, 275, 38197-38205.	1.6	147
27	MUC1 and the immunobiology of cancer. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2002, 7, 209-221.	1.0	138
28	Macrophage-tumour cell interactions: identification of MUC1 on breast cancer cells as a potential counter-receptor for the macrophage-restricted receptor, sialoadhesin. <i>Immunology</i> , 1999, 98, 213-219.	2.0	126
29	Over-expression of ST3Gal-I promotes mammary tumorigenesis. <i>Glycobiology</i> , 2010, 20, 1241-1250.	1.3	124
30	Tumor-Associated Tn-MUC1 Glycoform Is Internalized through the Macrophage Galactose-Type C-Type Lectin and Delivered to the HLA Class I and II Compartments in Dendritic Cells. <i>Cancer Research</i> , 2007, 67, 8358-8367.	0.4	122
31	MUC1 immunotherapy. <i>Immunotherapy</i> , 2010, 2, 305-327.	1.0	120
32	Functional Analysis of the Transcription Repressor PLU-1/JARID1B. <i>Molecular and Cellular Biology</i> , 2007, 27, 7220-7235.	1.1	119
33	Detection of the tumour-associated antigens recognized by the monoclonal antibodies hmfg-1 and 2 in serum from patients with breast cancer. <i>International Journal of Cancer</i> , 1984, 34, 763-768.	2.3	115
34	A Transfected Sialyltransferase That Is Elevated in Breast Cancer and Localizes to the medial/trans-Golgi Apparatus Inhibits the Development of core-2 α -based O-Glycans. <i>Journal of Cell Biology</i> , 1997, 137, 1229-1241.	2.3	114
35	Expression of fully and under-glycosylated forms of MUC1 mucin in gastric carcinoma. , 1998, 79, 402-410.		104
36	PLU-1/JARID1B/KDM5B is required for embryonic survival and contributes to cell proliferation in the mammary gland and in ER+ breast cancer cells. <i>International Journal of Oncology</i> , 2011, 38, 1267-77.	1.4	100

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37	Latest developments in MUC1 immunotherapy. <i>Biochemical Society Transactions</i> , 2018, 46, 659-668.	1.6	95
38	Synergism of Toll-like receptor-induced interleukin-12p70 secretion by monocyte-derived dendritic cells is mediated through p38 MAPK and lowers the threshold of T-helper cell type I responses. <i>Cellular Immunology</i> , 2007, 247, 72-84.	1.4	93
39	Breast cancer associated transcriptional repressor PLU-1/JARID1B interacts directly with histone deacetylases. <i>International Journal of Cancer</i> , 2007, 121, 265-275.	2.3	87
40	The product of the human MUC1 gene when secreted by mouse cells transfected with the full-length cDNA lacks the cytoplasmic tail. <i>Biochemical and Biophysical Research Communications</i> , 1992, 185, 1-8.	1.0	86
41	Recombinant MUC1 mucin with a breast cancer-like O-glycosylation produced in large amounts in Chinese-hamster ovary cells. <i>Biochemical Journal</i> , 2003, 376, 677-686.	1.7	83
42	Recombinant Tumor-Associated MUC1 Glycoprotein Impairs the Differentiation and Function of Dendritic Cells. <i>Journal of Immunology</i> , 2005, 174, 7764-7772.	0.4	82
43	NMR-based determination of the binding epitope and conformational analysis of MUC-1 glycopeptides and peptides bound to the breast cancer-selective monoclonal antibody SM3. <i>FEBS Journal</i> , 2002, 269, 1444-1455.	0.2	79
44	The Breast Cancer-Associated Glycoforms of MUC1, MUC1-Tn and sialyl-Tn, Are Expressed in COSMC Wild-Type Cells and Bind the C-Type Lectin MGL. <i>PLoS ONE</i> , 2015, 10, e0125994.	1.1	78
45	Effects of testosterone on messenger ribonucleic acid and protein synthesis in rat seminal vesicle. <i>Biochemical Journal</i> , 1978, 174, 543-551.	3.2	77
46	The polymorphic epithelial mucin: potential as an immunogen for a cancer vaccine. <i>Cancer Immunology, Immunotherapy</i> , 1996, 42, 71-80.	2.0	77
47	Sialyl-Tn vaccine induces antibody-mediated tumour protection in a relevant murine model. <i>British Journal of Cancer</i> , 2009, 100, 1746-1754.	2.9	75
48	Intramuscular immunisation with MUC1 cDNA can protect C57 mice challenged with MUC1-expressing syngeneic mouse tumour cells. , 1996, 65, 664-670.		74
49	Differential effect of interferon on DNA synthesis, 2-deoxyglucose uptake and ornithine decarboxylase activity in 3T3 cells stimulated by polypeptide growth factors and tumor promoters. <i>Journal of Cellular Physiology</i> , 1980, 104, 1-9.	2.0	73
50	Crystal structure at 1.95 Å resolution of the breast tumour-specific antibody SM3 complexed with its peptide epitope reveals novel hypervariable loop recognition. <i>Journal of Molecular Biology</i> , 1998, 284, 713-728.	2.0	72
51	O-linked mucin-type glycosylation in breast cancer. <i>Biochemical Society Transactions</i> , 2018, 46, 779-788.	1.6	69
52	Identification of new cancer biomarkers based on aberrant mucin glycoforms by <i>in situ</i> proximity ligation. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1474-1484.	1.6	67
53	Form and pattern of MUC1 expression on T cells activated <i>in vivo</i> or <i>in vitro</i> suggests a function in T-cell migration. <i>Immunology</i> , 2003, 108, 32-41.	2.0	63
54	Bioprocess development for the production of a recombinant MUC1 fusion protein expressed by CHO-K1 cells in protein-free medium. <i>Journal of Biotechnology</i> , 2004, 110, 51-62.	1.9	60

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55	Endothelins Induce CCR7 Expression by Breast Tumor Cells via Endothelin Receptor A and Hypoxia-Inducible Factor-1. <i>Cancer Research</i> , 2006, 66, 11802-11807.	0.4	57
56	Characterizing the glycome of the mammalian immune system. <i>Immunology and Cell Biology</i> , 2008, 86, 564-573.	1.0	57
57	Elevated IgG4 in patient circulation is associated with the risk of disease progression in melanoma. <i>OncoImmunology</i> , 2015, 4, e1032492.	2.1	53
58	Autoantibodies to MUC1 glycopeptides cannot be used as a screening assay for early detection of breast, ovarian, lung or pancreatic cancer. <i>British Journal of Cancer</i> , 2013, 108, 2045-2055.	2.9	52
59	Cancer-associated autoantibodies to MUC1 and MUC4—A blinded case-control study of colorectal cancer in UK collaborative trial of ovarian cancer screening. <i>International Journal of Cancer</i> , 2014, 134, 2180-2188.	2.3	49
60	Immunological analysis of mucin molecules expressed by normal and malignant mammary epithelial cells. <i>International Journal of Cancer</i> , 1987, 40, 319-327.	2.3	44
61	Repurposing Tin Mesoporphyrin as an Immune Checkpoint Inhibitor Shows Therapeutic Efficacy in Preclinical Models of Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 1617-1628.	3.2	44
62	The Polymorphic Epithelial Mucin as a Target for Immunotherapy. <i>Annals of the New York Academy of Sciences</i> , 1993, 690, 69-79.	1.8	43
63	PLU-1, a transcriptional repressor and putative testis-cancer antigen, has a specific expression and localisation pattern during meiosis. <i>Chromosoma</i> , 2003, 112, 124-132.	1.0	43
64	Sialyl-Lewis x on P-Selectin Glycoprotein Ligand-1 Is Regulated during Differentiation and Maturation of Dendritic Cells: A Mechanism Involving the Glycosyltransferases C2GnT1 and ST3Gal I. <i>Journal of Immunology</i> , 2007, 179, 5701-5710.	0.4	42
65	Growth Hormone Is Secreted by Normal Breast Epithelium upon Progesterone Stimulation and Increases Proliferation of Stem/Progenitor Cells. <i>Stem Cell Reports</i> , 2014, 2, 780-793.	2.3	42
66	Cancer-associated hypersialylated MUC1 drives the differentiation of human monocytes into macrophages with a pathogenic phenotype. <i>Communications Biology</i> , 2020, 3, 644.	2.0	36
67	Two E-selectin ligands, BST-2 and LGALS3BP, predict metastasis and poor survival of ER-negative breast cancer. <i>International Journal of Oncology</i> , 2016, 49, 265-275.	1.4	35
68	Effects of Testosterone on Sequence Complexity of Polyadenylated RNA from Rat Seminal Vesicle. <i>FEBS Journal</i> , 1978, 91, 327-334.	0.2	34
69	Targeting of Tumor-Associated Glycoforms of MUC1 with CAR T Cells. <i>Immunity</i> , 2016, 45, 945-946.	6.6	34
70	A MUC1 tandem repeat reporter protein produced in CHO-K1 cells has sialylated core 1 O-glycans and becomes more densely glycosylated if coexpressed with polypeptide-GalNAc-T4 transferase. <i>Glycobiology</i> , 2004, 15, 177-191.	1.3	32
71	Targeting DNCR1 (CLEC9A) with antibody/MUC1 peptide conjugates as a vaccine for carcinomas. <i>European Journal of Immunology</i> , 2014, 44, 1947-1955.	1.6	32
72	Transforming growth factor β 1 is constitutively secreted by chinese hamster ovary cells and is functional in human cells. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2759-2764.	1.7	29

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73	Models of Breast Morphogenesis Based on Localization of Stem Cells in the Developing Mammary Lobule. <i>Stem Cell Reports</i> , 2015, 4, 699-711.	2.3	29
74	RFA strongly modulates the immune system and anti-tumor immune responses in metastatic liver patients. <i>International Journal of Oncology</i> , 0, , .	1.4	28
75	Antibodies to Human Milk Fat Globule Molecules. <i>Cancer Investigation</i> , 1989, 7, 53-61.	0.6	27
76	Selection of a Relevant In Vitro Blood-Brain Barrier Model to Investigate Pro-Metastatic Features of Human Breast Cancer Cell Lines. <i>PLoS ONE</i> , 2016, 11, e0151155.	1.1	26
77	Mucins and their receptors in chronic lung disease. <i>Clinical and Translational Immunology</i> , 2020, 9, e01120.	1.7	25
78	Sialylated core 1 based O-linked glycans enhance the growth rate of mammary carcinoma cells in MUC1 transgenic mice. <i>International Journal of Oncology</i> , 2004, 25, 937-43.	1.4	24
79	Characterisation and developmental expression of mouse Plu-1, a homologue of a human nuclear protein (PLU-1) which is specifically up-regulated in breast cancer. <i>Mechanisms of Development</i> , 2002, 119, S239-S246.	1.7	23
80	Microvesicle Cargo of Tumor-Associated MUC1 to Dendritic Cells Allows Cross-presentation and Specific Carbohydrate Processing. <i>Cancer Immunology Research</i> , 2014, 2, 177-186.	1.6	23
81	Breast carcinoma cell lysate-pulsed dendritic cells cross-prime MUC1-specific CD8+ T cells identified by peptide-MHC-class-I tetramers. <i>Cellular Immunology</i> , 2004, 231, 112-125.	1.4	22
82	Cyclooxygenase-2 Enzyme Induces the Expression of the $\hat{\text{A}}\text{-2,3-Sialyltransferase-3 (ST3Gal-I)}$ in Breast Cancer. <i>Journal of Biological Chemistry</i> , 2012, 287, 44490-44497.	1.6	22
83	Targeted Macrophage Cytotoxicity Using a Nonreplicative Live Vector Expressing a Tumor-Specific Single-Chain Variable Region Fragment. <i>Human Gene Therapy</i> , 2000, 11, 1417-1428.	1.4	21
84	JARID1/KDM5 demethylases as cancer targets?. <i>Expert Opinion on Therapeutic Targets</i> , 2017, 21, 5-7.	1.5	21
85	Expression of recombinant multi-coloured fluorescent antibodies in gor -/trxB- E. colicytoplasm. <i>BMC Biotechnology</i> , 2011, 11, 117.	1.7	20
86	Apoptosis of monocytes and the influence on yield of monocyte-derived dendritic cells. <i>Journal of Immunological Methods</i> , 2004, 294, 67-80.	0.6	19
87	Responses of human T cells to peptides flanking the tandem repeat and overlapping the signal sequence of MUC1. <i>International Journal of Cancer</i> , 2005, 115, 760-768.	2.3	19
88	Protection against MUC1 expressing mouse tumours by intra-muscular injection of MUC1 cDNA requires functional CD8+ and CD4+ T cells but does not require the MUC1 tandem repeat domain. <i>International Journal of Cancer</i> , 2004, 109, 691-697.	2.3	18
89	Cyclooxygenase-2 Enzyme Induces the Expression of the $\hat{\text{A}}\text{-2,3-Sialyltransferase-3 (ST3Gal-I)}$ in Breast Cancer. <i>Journal of Biological Chemistry</i> , 2012, 287, 44490-44497.	1.6	18
90	O-linked mucin-type glycosylation regulates the transcriptional programme downstream of EGFR. <i>Glycobiology</i> , 2021, 31, 200-210.	1.3	18

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91	Production and Characterization of Monoclonal Antibodies to Human Casein. A Monoclonal Antibody That Cross-React With Casein and Î±-Lactalbumin. <i>Hybridoma</i> , 1985, 4, 341-350.	0.9	17
92	Radioimmunosintigraphy Using Monoclonal Antibodies before Second-Look Surgery in Patients Suffering from Ovarian Cancer. <i>Gynecologic and Obstetric Investigation</i> , 1987, 24, 212-216.	0.7	17
93	Tn and STn are members of a family of carbohydrate tumor antigens that possess carbohydrate-carbohydrate interactions. <i>Glycobiology</i> , 2018, 28, 437-442.	1.3	16
94	Effective Immunotherapy of Cancer in MUC1-Transgenic Mice Using Clonal Cytotoxic T Lymphocytes Directed Against an Immunodominant MUC1 Epitope. <i>Journal of Immunotherapy</i> , 2002, 25, 46-56.	1.2	14
95	Interactions between the breast cancer-associated MUC1 mucins and C-type lectin characterized by optical tweezers. <i>PLoS ONE</i> , 2017, 12, e0175323.	1.1	12
96	Histone Methylases and Demethylases Regulating Antagonistic Methyl Marks: Changes Occurring in Cancer. <i>Cells</i> , 2022, 11, 1113.	1.8	12
97	Lack of Î²-Casein production by human breast tumours revealed by monoclonal antibodies. <i>European Journal of Cancer & Clinical Oncology</i> , 1987, 23, 1557-1563.	0.9	11
98	Interactions of mucins with the Tn or Sialyl Tn cancer antigens including MUC1 are due to GalNAc-GalNAc interactions. <i>Glycobiology</i> , 2016, 26, 1338-1350.	1.3	8
99	Radioimmunosintigraphy with technetium-99m-labelled monoclonal antibody, SM3, in gynaecological cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1993, 20, 483-9.	2.2	7
100	T cells reactive with HLA-A*0201 peptides from the histone demethylase JARID1B are found in the circulation of breast cancer patients. <i>International Journal of Cancer</i> , 2011, 128, 2114-2124.	2.3	6
101	KDM5B protein expressed in viable and fertile Î²ARID mice exhibit no demethylase activity. <i>International Journal of Oncology</i> , 2021, 59, .	1.4	3
102	Structure and Functions of Mucins. , 0, , 669-683.		2
103	Mucins and Cancer. , 2013, , .		2
104	Changes in mucin-type O-glycosylation in breast cancer: implications for the host immune response. <i>International Journal of Experimental Pathology</i> , 2004, 85, A52-A52.	0.6	1
105	Epithelial Mucin Antibodies and Their Epitopes: Core Protein Epitopes of a Polymorphic Epithelial Mucin (PEM). , 1989, , 81-93.		0
106	Characterization and Evolution of an Expressed Hypervariable Gene for a Tumor-Associated Mucin, MUC-1. , 1991, , 15-23.		0