Chitra Mandal

List of Publications by Year
in descending order

106 papers	3,402 citations	117625 34 h-index	189892 50 g-index
110 all docs	110 docs citations	110 times ranked	3654 citing authors

#	Article	IF	Citations
1	Withaferin A induces apoptosis by activating p38 mitogen-activated protein kinase signaling cascade in leukemic cells of lymphoid and myeloid origin through mitochondrial death cascade. Apoptosis: an International Journal on Programmed Cell Death, 2008, 13, 1450-1464.	4.9	162
2	Natural Products: Promising Resources for Cancer Drug Discovery. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 49-75.	1.7	147
3	In situ synthesized TiBâ€“TiN reinforced Ti6Al4V alloy composite coatings: Microstructure, tribological and in-vitro biocompatibility. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 259-271.	3.1	111
4	Withanolide D induces apoptosis in leukemia by targeting the activation of neutral sphingomyelinase-ceramide cascade mediated by synergistic activation of c-Jun N-terminal kinase and p38 mitogen-activated protein kinase. Molecular Cancer, 2010, 9, 239.	19.2	86
5	Sialoglycoproteins adsorbed byPseudomonas aeruginosafacilitate their survival by impeding neutrophil extracellular trap through siglec-9. Journal of Leukocyte Biology, 2012, 91, 641-655.	3.3	84
6	Apoptotic effects of mahanine on human leukemic cells are mediated through crosstalk between Apo-1/Fas signaling and the Bid protein and via mitochondrial pathways. Biochemical Pharmacology, 2010, 79, 361-372.	4.4	76
7	Racemoside A, an anti-leishmanial, water-soluble, natural steroidal saponin, induces programmed cell death in Leishmania donovani. Journal of Medical Microbiology, 2007, 56, 1196-1204.	1.8	72
8	Induction of glycosylation in human C-reactive protein under different pathological conditions. Biochemical Journal, 2003, 373, 345-355.	3.7	69
9	Sialic acids acquired by Pseudomonas aeruginosa are involved in reduced complement deposition and siglec mediated hostâ€cell recognition. FEBS Letters, 2010, 584, 555-561.	2.8	66
10	The specificity of the binding site of AchatininH, a sialic acid-binding lectin from Achatina fulica. Carbohydrate Research, 1995, 268, 115-125.	2.3	60
11	Oxidative inhibition of Hsp90 disrupts the superâ€chaperone complex and attenuates pancreatic adenocarcinoma in vitro and in vivo. International Journal of Cancer, 2013, 132, 695-706.	5.1	60
12	Investigation of 9-o-acetylated sialoglycoconjugates in childhood acute lymphoblastic leukaemia. British Journal of Haematology, 2000, 110, 801-812.	2.5	59
13	An unique specificity of a sialic acid binding lectin AchatininH, from the hemolymph of Achatinafulica snail. Biochemical and Biophysical Research Communications, 1987, 148, 795-801.	2.1	56
14	Identification and characterization of adsorbed serum sialoglycans on Leishmania donovani promastigotes. Glycobiology, 2003, 13, 351-361.	2.5	56
15	Improved chemosensitivity in cervical cancer to cisplatin: Synergistic activity of mahanine through STAT3 inhibition. Cancer Letters, 2014, 351, 81-90.	7.2	54
16	Autophagy-independent induction of LC3B through oxidativeÂstress reveals its non-canonical role in anoikis of ovarian cancer cells. Cell Death and Disease, 2018, 9, 934.	6.3	54
17	Porphyrinâ€“Gold Nanomaterial for Efficient Drug Delivery to Cancerous Cells. ACS Omega, 2018, 3, 4602-4619.	3.5	53
18	Oâ€acetylation of GD3 prevents its apoptotic effect and promotes survival of lymphoblasts in childhood acute lymphoblastic leukaemia. Journal of Cellular Biochemistry, 2008, 105, 724-734.	2.6	51

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19	Integrity of the Actin Cytoskeleton of Host Macrophages is Essential for Leishmania donovani Infection. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2011-2018.	2.6	51
20	Differential expression of 9-O-acetylated sialoglycoconjugates on leukemic blasts: A potential tool for long-term monitoring of children with acute lymphoblastic leukemia. International Journal of Cancer, 2004, 111, 270-277.	5.1	50
21	Functions and Biosynthesis of O-Acetylated Sialic Acids. Topics in Current Chemistry, 2012, 366, 1-30.	4.0	49
22	Coupling G2/M arrest to the Wnt/Î²-catenin pathway restrains pancreatic adenocarcinoma. Endocrine-Related Cancer, 2014, 21, 113-125.	3.1	46
23	Aloe vera leaf exudate induces a caspase-independent cell death in Leishmania donovani promastigotes. Journal of Medical Microbiology, 2007, 56, 629-636.	1.8	45
24	Elevated mRNA level of hST6Gal I and hST3Gal V positively correlates with the high risk of pediatric acute leukemia. Leukemia Research, 2010, 34, 463-470.	0.8	43
25	Effect of environmental pollutants on the c-reactive protein of a freshwater major carp, Catla catla. Developmental and Comparative Immunology, 1998, 22, 519-532.	2.3	42
26	Mahanine, A DNA Minor Groove Binding Agent Exerts Cellular Cytotoxicity with Involvement of C-7-OH and â^'NH Functional Groups. Journal of Medicinal Chemistry, 2013, 56, 5709-5721.	6.4	42
27	Purification and characterization of 9-O-acetylated sialoglycoproteins from leukemic cells and their potential as immunological tool for monitoring childhood acute lymphoblastic leukemia. Glycobiology, 2004, 14, 859-870.	2.5	40
28	Variable Degree of Alternative Complement Pathwayâ€"Mediated Hemolysis in Indian Visceral Leishmaniasis Induced by Differential Expression of 9â€Oâ€"Acetylated Sialoglycans. Journal of Infectious Diseases, 2004, 189, 1257-1264.	4.0	39
29	Down regulation of membraneâ€bound Neu3 constitutes a new potential marker for childhood acute lymphoblastic leukemia and induces apoptosis suppression of neoplastic cells. International Journal of Cancer, 2010, 126, 337-349.	5.1	39
30	Bak Compensated for Bax in p53-null Cells to Release Cytochrome c for the Initiation of Mitochondrial Signaling during Withanolide D-Induced Apoptosis. PLoS ONE, 2012, 7, e34277.	2.5	37
31	In vitro and in vivo activity of Aloe vera leaf exudate in experimental visceral leishmaniasis. Parasitology Research, 2008, 102, 1235-1242.	1.6	36
32	Mahanine exerts in vitro and in vivo antileishmanial activity by modulation of redox homeostasis. Scientific Reports, 2017, 7, 4141.	3.3	36
33	Critical stoichiometric ratio of <scp>CD</scp>4⁺Â<scp>CD</scp>25⁺ÂFoxP3⁺ regulatory T cells and <scp>CD</scp>4⁺Â<scp>CD</scp>25^{â^'} responder T cells influence immunosuppression in patients with Bâ€cell acute lymphoblastic leukaemia. Immunology, 2014, 142, 124-139.	4.4	35
34	Association of cytosolic sialidase Neu2 with plasma membrane enhances Fas-mediated apoptosis by impairing PI3K-Akt/mTOR-mediated pathway in pancreatic cancer cells. Cell Death and Disease, 2018, 9, 210.	6.3	35
35	Role of C-reactive protein in complement-mediated hemolysis in Malaria. Glycoconjugate Journal, 2006, 23, 233-240.	2.7	34
36	O-acetylation of sialic acids is required for the survival of lymphoblasts in childhood acute lymphoblastic leukemia (ALL). Glycoconjugate Journal, 2006, 24, 17-24.	2.7	34

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37	In vitro antileishmanial activity of Aloe vera leaf exudate: A potential herbal therapy in leishmaniasis. Glycoconjugate Journal, 2006, 24, 81-86.	2.7	34
38	Leishmania donovani Utilize Sialic Acids for Binding and Phagocytosis in the Macrophages through Selective Utilization of Siglecs and Impair the Innate Immune Arm. PLoS Neglected Tropical Diseases, 2016, 10, e0004904.	3.0	34
39	High level of sialate-O-acetyltransferase activity in lymphoblasts of childhood acute lymphoblastic leukaemia (ALL): enzyme characterization and correlation with disease status. Glycoconjugate Journal, 2009, 26, 57-73.	2.7	32
40	Variations in binding characteristics of glycosylated human C-reactive proteins in different pathological conditions. Glycoconjugate Journal, 2003, 20, 537-543.	2.7	31
41	Acute Phase Response of C-Reactive Protein of Labeo rohita to Aquatic Pollutants Is Accompanied by the Appearance of Distinct Molecular Forms. Archives of Biochemistry and Biophysics, 2001, 396, 139-150.	3.0	30
42	Disialoganglioside GD3-synthase over expression inhibits survival and angiogenesis of pancreatic cancer cells through cell cycle arrest at S-phase and disruption of integrin-Î²1-mediated anchorage. International Journal of Biochemistry and Cell Biology, 2014, 53, 162-173.	2.8	30
43	Unusual glycosylation of proteins: Beyond the universal sequon and other amino acids. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3096-3108.	2.4	30
44	Increased interferon gamma production by peripheral blood mononuclear cells in response to stimulation of overexpressed disease-specific 9-O-acetylated sialoglycoconjugates in children suffering from acute lymphoblastic leukaemia. British Journal of Haematology, 2005, 128, 35-41.	2.5	29
45	Interferon gamma promotes survival of lymphoblasts overexpressing 9-O-acetylated sialoglycoconjugates in childhood acute lymphoblastic leukaemia (ALL). Journal of Cellular Biochemistry, 2005, 95, 206-216.	2.6	29
46	Altered erythrocyte membrane characteristics during anemia in childhood acute lymphoblastic leukemia. Annals of Hematology, 2005, 84, 76-84.	1.8	29
47	Regulation of O-acetylation of sialic acids by sialate-O-acetyltransferase and sialate-O-acetylesterase activities in childhood acute lymphoblastic leukemia. Glycobiology, 2012, 22, 70-83.	2.5	29
48	mTORC2 regulates hedgehog pathway activity by promoting stability to Gli2 protein and its nuclear translocation. Cell Death and Disease, 2017, 8, e2926-e2926.	6.3	29
49	Sialoglycans in protozoal diseases: Their detection, modes of acquisition and emerging biological roles. Glycoconjugate Journal, 2003, 20, 199-206.	2.7	27
50	Antibodies Directed againstOâ€Acetylated Sialoglycoconjugates Accelerate Complement Activation inLeishmania donovaniPromastigotes. Journal of Infectious Diseases, 2004, 190, 2010-2019.	4.0	27
51	Unraveling the C-reactive Protein Complement-Cascade in Destruction of Red Blood Cells: Potential Pathological Implications in Plasmodium Falciparum Malaria. Cellular Physiology and Biochemistry, 2009, 23, 175-190.	1.6	26
52	Microheterogeneity of C-Reactive Protein in the Sera of FishLabeo rohitaInduced by Metal Pollutants. Biochemical and Biophysical Research Communications, 1996, 226, 681-687.	2.1	25
53	Molecular association of glucose-6-phosphate isomerase and pyruvate kinase M2 with glyceraldehyde-3-phosphate dehydrogenase in cancer cells. BMC Cancer, 2016, 16, 152.	2.6	25
54	Sialic acids siglec interaction: a unique strategy to circumvent innate immune response by pathogens. Indian Journal of Medical Research, 2013, 138, 648-62.	1.0	25

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55	A new cold agglutinin from Achatina fulica snails. Archives of Biochemistry and Biophysics, 1984, 233, 286-289.	3.0	24
56	O-acetyl sialic acid specific IgM in childhood acute lymphoblastic leukaemia. Glycoconjugate Journal, 2001, 18, 529-537.	2.7	24
57	9-O-Acetylated GD3 triggers programmed cell death in mature erythrocytes. Biochemical and Biophysical Research Communications, 2007, 362, 651-657.	2.1	24
58	Disease-associated glycosylated molecular variants of human C-reactive protein activate complement-mediated hemolysis of erythrocytes in tuberculosis and Indian visceral leishmaniasis. Glycoconjugate Journal, 2009, 26, 1151-1169.	2.7	24
59	Statin-induced chronic cholesterol depletion inhibits Leishmania donovani infection: Relevance of optimum host membrane cholesterol. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2088-2096.	2.6	24
60	Purification, characterization of O-acetylated sialoglycoconjugates-specific IgM, and development of an enzyme-linked immunosorbent assay for diagnosis and follow-up of indian visceral leishmaniasis patients. Diagnostic Microbiology and Infectious Disease, 2004, 50, 15-24.	1.8	23
61	Identification and quantification of the active component quercetin 3-O-rutinoside fromBarringtonia racemosa, targets mitochondrial apoptotic pathway in acute lymphoblastic leukemia. Journal of Asian Natural Products Research, 2010, 12, 639-648.	1.4	23
62	Mahanine, a novel mitochondrial complex-III inhibitor induces G0/G1 arrest through redox alteration-mediated DNA damage response and regresses glioblastoma multiforme. American Journal of Cancer Research, 2014, 4, 629-47.	1.4	23
63	Antibodies against 9-O-acetylated sialoglycans: a potent marker to monitor clinical status in childhood acute lymphoblastic leukemia. Clinical Biochemistry, 2004, 37, 395-403.	1.9	22
64	Immuno-suppressive Effect of Human Alphafetoprotein: A Cross Species Study. Immunological Investigations, 1993, 22, 329-339.	2.0	21
65	Role of linkage specific 9-O-acetylated sialoglycoconjugates in activation of the alternate complement pathway in mammalian erythrocytes. Glycoconjugate Journal, 2000, 17, 887-893.	2.7	21
66	Glycosylation of Erythrocyte Spectrin and Its Modification in Visceral Leishmaniasis. PLoS ONE, 2011, 6, e28169.	2.5	21
67	Leishmania donovani Internalizes into Host Cells via Caveolin-mediated Endocytosis. Scientific Reports, 2019, 9, 12636.	3.3	21
68	Development of an assay for quantification of linkage-specific O-acetylated sialoglycans on erythrocytes; its application in Indian visceral leishmaniasis. Journal of Immunological Methods, 2002, 270, 1-10.	1.4	20
69	Isolation of a phosphoryl choline-binding protein from the hemolymph of the snail, Achatina fulica. Developmental and Comparative Immunology, 1991, 15, 227-239.	2.3	19
70	Modulation of TLR4 Sialylation Mediated by a Sialidase Neu1 and Impairment of Its Signaling in Leishmania donovani Infected Macrophages. Frontiers in Immunology, 2019, 10, 2360.	4.8	19
71	Connecting signaling and metabolic pathways in EGF receptor-mediated oncogenesis of glioblastoma. PLoS Computational Biology, 2019, 15, e1007090.	3.2	18
72	Over-expressed IgG2 antibodies against O-acetylated sialoglycoconjugates incapable of proper effector functioning in childhood acute lymphoblastic leukemia. International Immunology, 2004, 17, 177-191.	4.0	17

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73	Sialylation of Outer Membrane Porin Protein D: A Mechanistic Basis of Antibiotic Uptake in Pseudomonas aeruginosa. Molecular and Cellular Proteomics, 2014, 13, 1412-1428.	3.8	17
74	Flow-cytometric monitoring of disease-associated expression of 9-O-acetylated sialoglycoproteins in combination with known CD antigens, as an index for MRD in children with acute lymphoblastic leukaemia: a two-year longitudinal follow-up study. BMC Cancer, 2008, 8, 40.	2.6	16
75	Sialic acids in different Leishmania sp., its correlation with nitric oxide resistance and host responses. Glycobiology, 2010, 20, 553-566.	2.5	16
76	Diagnostic and Prognostic Potential of a Competitive Enzyme-Linked Immunosorbent Assay for Leishmaniasis in India. Vaccine Journal, 1999, 6, 550-554.	2.6	16
77	Protein A - a new ligand for human C-reactive protein. FEBS Letters, 2004, 576, 107-113.	2.8	15
78	Detection and characterization of a sialoglycosylated bacterial ABC-type phosphate transporter protein from patients with visceral leishmaniasis. Glycoconjugate Journal, 2009, 26, 675-689.	2.7	15
79	Sialoglycosylation of RBC in Visceral Leishmaniasis Leads to Enhanced Oxidative Stress, Calpain-Induced Fragmentation of Spectrin and Hemolysis. PLoS ONE, 2012, 7, e42361.	2.5	15
80	Glycosylated molecular variants of C-reactive proteins from the major carp Catla catla in fresh and polluted aquatic environments. Glycoconjugate Journal, 2001, 18, 547-556.	2.7	14
81	Identification of 9-O-acetylated sialoglycans on peripheral blood mononuclear cells in Indian Visceral Leishmaniasis. Glycoconjugate Journal, 2003, 20, 531-536.	2.7	14
82	Oâ€acetylated sialic acids: Multifaceted role in childhood acute lymphoblastic leukaemia. Biotechnology Journal, 2009, 4, 361-374.	3.5	14
83	Lectin like properties and differential sugar binding characteristics of C-reactive proteins purified from sera of normal and pollutant induced Labeo rohita. Glycoconjugate Journal, 1999, 16, 741-750.	2.7	13
84	9-O-Acetylated Sialoglycoproteins Are Important Immunomodulators in Indian Visceral Leishmaniasis. Vaccine Journal, 2009, 16, 889-898.	3.1	13
85	Withanolide D, Carrying the Baton of Indian Rasayana Herb as a Lead Candidate of Antileukemic Agent in Modern Medicine. Advances in Experimental Medicine and Biology, 2012, 749, 295-312.	1.6	13
86	Detection of immune-complexed 9-O-acetylated sialoglycoconjugates in the sera of patients with pediatric acute lymphoblastic leukemia. Journal of Immunological Methods, 2005, 297, 13-26.	1.4	12
87	Withania somnifera chemotype NMITLI 101R significantly increases the efficacy of antileishmanial drugs by generating strong IFN-Î³ and IL-12 mediated immune responses in Leishmania donovani infected hamsters. Phytomedicine, 2017, 24, 87-95.	5.3	12
88	Mahanine drives pancreatic adenocarcinoma cells into endoplasmic reticular stress-mediated apoptosis through modulating sialylation process and Ca2+-signaling. Scientific Reports, 2018, 8, 3911.	3.3	12
89	Desialylation of Atg5 by sialidase (Neu2) enhances autophagosome formation to induce anchorage-dependent cell death in ovarian cancer cells. Cell Death Discovery, 2021, 7, 26.	4.7	12
90	A Perspective on the Emergence of Sialic Acids as Potent Determinants Affecting Leishmania Biology. Molecular Biology International, 2011, 2011, 1-14.	1.7	11

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91	Influence of Geographical and Seasonal Variations on Carbazole Alkaloids Distribution in Murraya koenigii: Deciding Factor of Its In Vitro and In Vivo Efficacies against Cancer Cells. BioMed Research International, 2020, 2020, 1-12.	1.9	10
92	Mobilization of lymphoblasts from bone marrow to peripheral blood in childhood acute lymphoblastic leukaemia: Role of 9-O-acetylated sialoglycoproteins. Leukemia Research, 2012, 36, 146-155.	0.8	9
93	Interplay Between Sialic Acids, Siglec-E, and Neu1 Regulates MyD88- and TRIF-Dependent Pathways for TLR4-Activation During Leishmania donovani Infection. Frontiers in Immunology, 2021, 12, 626110.	4.8	9
94	Functional Heterogeneity of Sialic Acid Binding Agglutinins of Rat Uteri Towards In Vitro Lymphocyte Transformation. American Journal of Reproductive Immunology, 1989, 20, 81-86.	1.2	8
95	Desialylation of Sonic-Hedgehog by Neu2 Inhibits Its Association with Patched1 Reducing Stemness-Like Properties in Pancreatic Cancer Sphere-forming Cells. Cells, 2020, 9, 1512.	4.1	8
96	Targeting Glycoproteins or Glycolipids and Their Metabolic Pathways for Antiparasite Therapy. Advances in Experimental Medicine and Biology, 2008, 625, 87-102.	1.6	8
97	Identification and Analysis of O-Acetylated Sialoglycoproteins. Methods in Molecular Biology, 2013, 981, 57-93.	0.9	7
98	Preclinical Development of Mahanine-Enriched Fraction from Indian Spice Murraya koenigii for the Management of Cancer: Efficacy, Temperature/pH stability, Pharmacokinetics, Acute and Chronic Toxicity (14-180 Days) Studies. BioMed Research International, 2020, 2020, 1-18.	1.9	6
99	Comparative analysis of differential expression of sialic acids and adhesion molecules on mononuclear cells of bone marrow and peripheral blood in childhood acute lymphoblastic leukaemia at diagnosis and clinical remission. Indian Journal of Biochemistry and Biophysics, 2007, 44, 357-65.	0.0	6
100	Structure-Based Kinase Profiling To Understand the Polypharmacological Behavior of Therapeutic Molecules. Journal of Chemical Information and Modeling, 2018, 58, 68-89.	5.4	5
101	Co-expression of 9-O-acetylated sialoglycoproteins and their binding proteins on lymphoblasts of childhood acute lymphoblastic leukemia: an anti-apoptotic role. Biological Chemistry, 2009, 390, 325-335.	2.5	4
102	9-O-acetylated sialic acids differentiating normal haematopoietic precursors from leukemic stem cells with high aldehyde dehydrogenase activity in children with acute lymphoblastic leukaemia. Glycoconjugate Journal, 2014, 31, 523-535.	2.7	4
103	A Glycomic Approach Towards Identification of Signature Molecules in CD34+ Haematopoietic Stem Cells from Umbilical Cord Blood. Advances in Experimental Medicine and Biology, 2018, 1112, 309-318.	1.6	4
104	9-O-Acetyl GD3 in Lymphoid and Erythroid Cells. Advances in Experimental Medicine and Biology, 2011, 705, 317-334.	1.6	2
105	Reply. Biochemical and Biophysical Research Communications, 2001, 288, 1069-1070.	2.1	0
106	Highlights 2014 on glycoscience; glycosyltransferases and glycobiomarkers. Glycoconjugate Journal, 2014, 31, 401-402.	2.7	0