

Chitra Mandal

List of Publications by Year in descending order

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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	Desialylation of Atg5 by sialidase (Neu2) enhances autophagosome formation to induce anchorage-dependent cell death in ovarian cancer cells. <i>Cell Death Discovery</i> , 2021, 7, 26.	4.7	12
2	Interplay Between Sialic Acids, Siglec-E, and Neu1 Regulates MyD88- and TRIF-Dependent Pathways for TLR4-Activation During <i>Leishmania donovani</i> Infection. <i>Frontiers in Immunology</i> , 2021, 12, 626110.	4.8	9
3	Preclinical Development of Mahanine-Enriched Fraction from Indian Spice <i>Murraya koenigii</i> for the Management of Cancer: Efficacy, Temperature/pH stability, Pharmacokinetics, Acute and Chronic Toxicity (14-180 Days) Studies. <i>BioMed Research International</i> , 2020, 2020, 1-18.	1.9	6
4	Desialylation of Sonic-Hedgehog by Neu2 Inhibits Its Association with Patched1 Reducing Stemness-Like Properties in Pancreatic Cancer Sphere-forming Cells. <i>Cells</i> , 2020, 9, 1512.	4.1	8
5	Influence of Geographical and Seasonal Variations on Carbazole Alkaloids Distribution in <i>Murraya koenigii</i> : Deciding Factor of Its In Vitro and In Vivo Efficacies against Cancer Cells. <i>BioMed Research International</i> , 2020, 2020, 1-12.	1.9	10
6	Connecting signaling and metabolic pathways in EGF receptor-mediated oncogenesis of glioblastoma. <i>PLoS Computational Biology</i> , 2019, 15, e1007090.	3.2	18
7	Modulation of TLR4 Sialylation Mediated by a Sialidase Neu1 and Impairment of Its Signaling in <i>Leishmania donovani</i> Infected Macrophages. <i>Frontiers in Immunology</i> , 2019, 10, 2360.	4.8	19
8	<i>Leishmania donovani</i> Internalizes into Host Cells via Caveolin-mediated Endocytosis. <i>Scientific Reports</i> , 2019, 9, 12636.	3.3	21
9	Mahanine drives pancreatic adenocarcinoma cells into endoplasmic reticular stress-mediated apoptosis through modulating sialylation process and Ca ²⁺ -signaling. <i>Scientific Reports</i> , 2018, 8, 3911.	3.3	12
10	Association of cytosolic sialidase Neu2 with plasma membrane enhances Fas-mediated apoptosis by impairing PI3K-Akt/mTOR-mediated pathway in pancreatic cancer cells. <i>Cell Death and Disease</i> , 2018, 9, 210.	6.3	35
11	Porphyrinâ€“Gold Nanomaterial for Efficient Drug Delivery to Cancerous Cells. <i>ACS Omega</i> , 2018, 3, 4602-4619.	3.5	53
12	Structure-Based Kinase Profiling To Understand the Polypharmacological Behavior of Therapeutic Molecules. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 68-89.	5.4	5
13	A Glycomic Approach Towards Identification of Signature Molecules in CD34+ Haematopoietic Stem Cells from Umbilical Cord Blood. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 309-318.	1.6	4
14	Autophagy-independent induction of LC3B through oxidative stress reveals its non-canonical role in anoikis of ovarian cancer cells. <i>Cell Death and Disease</i> , 2018, 9, 934.	6.3	54
15	<i>Withania somnifera</i> chemotype NMITLI 101R significantly increases the efficacy of antileishmanial drugs by generating strong IFN- γ and IL-12 mediated immune responses in <i>Leishmania donovani</i> infected hamsters. <i>Phytomedicine</i> , 2017, 24, 87-95.	5.3	12
16	Unusual glycosylation of proteins: Beyond the universal sequon and other amino acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3096-3108.	2.4	30
17	Mahanine exerts in vitro and in vivo antileishmanial activity by modulation of redox homeostasis. <i>Scientific Reports</i> , 2017, 7, 4141.	3.3	36
18	mTORC2 regulates hedgehog pathway activity by promoting stability to Gli2 protein and its nuclear translocation. <i>Cell Death and Disease</i> , 2017, 8, e2926-e2926.	6.3	29

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19	Statin-induced chronic cholesterol depletion inhibits Leishmania donovani infection: Relevance of optimum host membrane cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2088-2096.	2.6	24
20	Molecular association of glucose-6-phosphate isomerase and pyruvate kinase M2 with glyceraldehyde-3-phosphate dehydrogenase in cancer cells. <i>BMC Cancer</i> , 2016, 16, 152.	2.6	25
21	Leishmania donovani Utilize Sialic Acids for Binding and Phagocytosis in the Macrophages through Selective Utilization of Siglecs and Impair the Innate Immune Arm. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004904.	3.0	34
22	Highlights 2014 on glycoscience; glycosyltransferases and glycobiomarkers. <i>Glycoconjugate Journal</i> , 2014, 31, 401-402.	2.7	0
23	9-O-acetylated sialic acids differentiating normal haematopoietic precursors from leukemic stem cells with high aldehyde dehydrogenase activity in children with acute lymphoblastic leukaemia. <i>Glycoconjugate Journal</i> , 2014, 31, 523-535.	2.7	4
24	Coupling G2/M arrest to the Wnt/ β -catenin pathway restrains pancreatic adenocarcinoma. <i>Endocrine-Related Cancer</i> , 2014, 21, 113-125.	3.1	46
25	Sialylation of Outer Membrane Porin Protein D: A Mechanistic Basis of Antibiotic Uptake in <i>Pseudomonas aeruginosa</i> . <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1412-1428.	3.8	17
26	In situ synthesized TiBâ€TiN reinforced Ti6Al4V alloy composite coatings: Microstructure, tribological and in-vitro biocompatibility. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 29, 259-271.	3.1	111
27	Improved chemosensitivity in cervical cancer to cisplatin: Synergistic activity of mahanine through STAT3 inhibition. <i>Cancer Letters</i> , 2014, 351, 81-90.	7.2	54
28	Integrity of the Actin Cytoskeleton of Host Macrophages is Essential for Leishmania donovani Infection. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2011-2018.	2.6	51
29	Critical stoichiometric ratio of CD4 ⁺ CD25 ⁺ FoxP3 ⁺ regulatory T cells and CD4 ⁺ CD25 ⁺ responder T cells influence immunosuppression in patients with cell acute lymphoblastic leukaemia. <i>Immunology</i> , 2014, 142, 124-139.	4.4	35
30	Disialoganglioside GD3-synthase over expression inhibits survival and angiogenesis of pancreatic cancer cells through cell cycle arrest at S-phase and disruption of integrin- β 1-mediated anchorage. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 53, 162-173.	2.8	30
31	Mahanine, a novel mitochondrial complex-III inhibitor induces G0/G1 arrest through redox alteration-mediated DNA damage response and regresses glioblastoma multiforme. <i>American Journal of Cancer Research</i> , 2014, 4, 629-47.	1.4	23
32	Oxidative inhibition of Hsp90 disrupts the superâ€chaperone complex and attenuates pancreatic adenocarcinoma <i>in vitro</i> and <i>in vivo</i> . <i>International Journal of Cancer</i> , 2013, 132, 695-706.	5.1	60
33	Identification and Analysis of O-Acetylated Sialoglycoproteins. <i>Methods in Molecular Biology</i> , 2013, 981, 57-93.	0.9	7
34	Mahanine, A DNA Minor Groove Binding Agent Exerts Cellular Cytotoxicity with Involvement of C-7-OH and â€NH Functional Groups. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5709-5721.	6.4	42
35	Sialic acids siglec interaction: a unique strategy to circumvent innate immune response by pathogens. <i>Indian Journal of Medical Research</i> , 2013, 138, 648-62.	1.0	25
36	Regulation of O-acetylation of sialic acids by sialate-O-acetyltransferase and sialate-O-acetylerase activities in childhood acute lymphoblastic leukemia. <i>Glycobiology</i> , 2012, 22, 70-83.	2.5	29

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37	Sialoglycoproteins adsorbed by <i>Pseudomonas aeruginosa</i> facilitate their survival by impeding neutrophil extracellular trap through siglec-9. <i>Journal of Leukocyte Biology</i> , 2012, 91, 641-655.	3.3	84
38	Natural Products: Promising Resources for Cancer Drug Discovery. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 49-75.	1.7	147
39	Functions and Biosynthesis of O-Acetylated Sialic Acids. <i>Topics in Current Chemistry</i> , 2012, 366, 1-30.	4.0	49
40	Bak Compensated for Bax in p53-null Cells to Release Cytochrome c for the Initiation of Mitochondrial Signaling during Withanolide D-Induced Apoptosis. <i>PLoS ONE</i> , 2012, 7, e34277.	2.5	37
41	Sialoglycosylation of RBC in Visceral Leishmaniasis Leads to Enhanced Oxidative Stress, Calpain-Induced Fragmentation of Spectrin and Hemolysis. <i>PLoS ONE</i> , 2012, 7, e42361.	2.5	15
42	Mobilization of lymphoblasts from bone marrow to peripheral blood in childhood acute lymphoblastic leukaemia: Role of 9-O-acetylated sialoglycoproteins. <i>Leukemia Research</i> , 2012, 36, 146-155.	0.8	9
43	Withanolide D, Carrying the Baton of Indian Rasayana Herb as a Lead Candidate of Antileukemic Agent in Modern Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2012, 749, 295-312.	1.6	13
44	Glycosylation of Erythrocyte Spectrin and Its Modification in Visceral Leishmaniasis. <i>PLoS ONE</i> , 2011, 6, e28169.	2.5	21
45	9-O-Acetyl GD3 in Lymphoid and Erythroid Cells. <i>Advances in Experimental Medicine and Biology</i> , 2011, 705, 317-334.	1.6	2
46	A Perspective on the Emergence of Sialic Acids as Potent Determinants Affecting Leishmania Biology. <i>Molecular Biology International</i> , 2011, 2011, 1-14.	1.7	11
47	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. <i>Biochemical Pharmacology</i> , 2010, 79, 361-372.	4.4	76
48	Sialic acids acquired by <i>Pseudomonas aeruginosa</i> are involved in reduced complement deposition and siglec mediated host-cell recognition. <i>FEBS Letters</i> , 2010, 584, 555-561.	2.8	66
49	Down regulation of membrane-bound Neu3 constitutes a new potential marker for childhood acute lymphoblastic leukemia and induces apoptosis suppression of neoplastic cells. <i>International Journal of Cancer</i> , 2010, 126, 337-349.	5.1	39
50	Elevated mRNA level of hST6Gal I and hST3Gal V positively correlates with the high risk of pediatric acute leukemia. <i>Leukemia Research</i> , 2010, 34, 463-470.	0.8	43
51	Sialic acids in different <i>Leishmania</i> sp., its correlation with nitric oxide resistance and host responses. <i>Glycobiology</i> , 2010, 20, 553-566.	2.5	16
52	Identification and quantification of the active component quercetin 3-O-rutinoside from <i>Barringtonia racemosa</i> , targets mitochondrial apoptotic pathway in acute lymphoblastic leukemia. <i>Journal of Asian Natural Products Research</i> , 2010, 12, 639-648.	1.4	23
53	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. <i>Molecular Cancer</i> , 2010, 9, 239.	19.2	86
54	Unraveling the C-reactive Protein Complement-Cascade in Destruction of Red Blood Cells: Potential Pathological Implications in <i>Plasmodium Falciparum</i> Malaria. <i>Cellular Physiology and Biochemistry</i> , 2009, 23, 175-190.	1.6	26

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55	9-O-Acetylated Sialoglycoproteins Are Important Immunomodulators in Indian Visceral Leishmaniasis. <i>Vaccine Journal</i> , 2009, 16, 889-898.	3.1	13
56	Co-expression of 9-O-acetylated sialoglycoproteins and their binding proteins on lymphoblasts of childhood acute lymphoblastic leukemia: an anti-apoptotic role. <i>Biological Chemistry</i> , 2009, 390, 325-335.	2.5	4
57	High level of sialate-O-acetyltransferase activity in lymphoblasts of childhood acute lymphoblastic leukaemia (ALL): enzyme characterization and correlation with disease status. <i>Glycoconjugate Journal</i> , 2009, 26, 57-73.	2.7	32
58	Detection and characterization of a sialoglycosylated bacterial ABC-type phosphate transporter protein from patients with visceral leishmaniasis. <i>Glycoconjugate Journal</i> , 2009, 26, 675-689.	2.7	15
59	Disease-associated glycosylated molecular variants of human C-reactive protein activate complement-mediated hemolysis of erythrocytes in tuberculosis and Indian visceral leishmaniasis. <i>Glycoconjugate Journal</i> , 2009, 26, 1151-1169.	2.7	24
60	9-O-acetylated sialic acids: Multifaceted role in childhood acute lymphoblastic leukaemia. <i>Biotechnology Journal</i> , 2009, 4, 361-374.	3.5	14
61	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. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2008, 13, 1450-1464.	4.9	162
62	In vitro and in vivo activity of Aloe vera leaf exudate in experimental visceral leishmaniasis. <i>Parasitology Research</i> , 2008, 102, 1235-1242.	1.6	36
63	9-O-acetylation of GD3 prevents its apoptotic effect and promotes survival of lymphoblasts in childhood acute lymphoblastic leukaemia. <i>Journal of Cellular Biochemistry</i> , 2008, 105, 724-734.	2.6	51
64	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. <i>BMC Cancer</i> , 2008, 8, 40.	2.6	16
65	Targeting Glycoproteins or Glycolipids and Their Metabolic Pathways for Antiparasite Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2008, 625, 87-102.	1.6	8
66	Aloe vera leaf exudate induces a caspase-independent cell death in <i>Leishmania donovani</i> promastigotes. <i>Journal of Medical Microbiology</i> , 2007, 56, 629-636.	1.8	45
67	9-O-Acetylated GD3 triggers programmed cell death in mature erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 651-657.	2.1	24
68	Racemoside A, an anti-leishmanial, water-soluble, natural steroidal saponin, induces programmed cell death in <i>Leishmania donovani</i> . <i>Journal of Medical Microbiology</i> , 2007, 56, 1196-1204.	1.8	72
69	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. <i>Indian Journal of Biochemistry and Biophysics</i> , 2007, 44, 357-65.	0.0	6
70	Role of C-reactive protein in complement-mediated hemolysis in Malaria. <i>Glycoconjugate Journal</i> , 2006, 23, 233-240.	2.7	34
71	O-acetylation of sialic acids is required for the survival of lymphoblasts in childhood acute lymphoblastic leukemia (ALL). <i>Glycoconjugate Journal</i> , 2006, 24, 17-24.	2.7	34
72	In vitro antileishmanial activity of Aloe vera leaf exudate: A potential herbal therapy in leishmaniasis. <i>Glycoconjugate Journal</i> , 2006, 24, 81-86.	2.7	34

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73	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. <i>British Journal of Haematology</i> , 2005, 128, 35-41.	2.5	29
74	Detection of immune-complexed 9-O-acetylated sialoglycoconjugates in the sera of patients with pediatric acute lymphoblastic leukemia. <i>Journal of Immunological Methods</i> , 2005, 297, 13-26.	1.4	12
75	Interferon gamma promotes survival of lymphoblasts overexpressing 9-O-acetylated sialoglycoconjugates in childhood acute lymphoblastic leukaemia (ALL). <i>Journal of Cellular Biochemistry</i> , 2005, 95, 206-216.	2.6	29
76	Altered erythrocyte membrane characteristics during anemia in childhood acute lymphoblastic leukemia. <i>Annals of Hematology</i> , 2005, 84, 76-84.	1.8	29
77	Antibodies Directed against O-Acetylated Sialoglycoconjugates Accelerate Complement Activation in <i>Leishmania donovani</i> Promastigotes. <i>Journal of Infectious Diseases</i> , 2004, 190, 2010-2019.	4.0	27
78	Over-expressed IgG2 antibodies against O-acetylated sialoglycoconjugates incapable of proper effector functioning in childhood acute lymphoblastic leukemia. <i>International Immunology</i> , 2004, 17, 177-191.	4.0	17
79	Purification and characterization of 9-O-acetylated sialoglycoproteins from leukemic cells and their potential as immunological tool for monitoring childhood acute lymphoblastic leukemia. <i>Glycobiology</i> , 2004, 14, 859-870.	2.5	40
80	Variable Degree of Alternative Complement Pathway-Mediated Hemolysis in Indian Visceral Leishmaniasis Induced by Differential Expression of 9-O-Acetylated Sialoglycans. <i>Journal of Infectious Diseases</i> , 2004, 189, 1257-1264.	4.0	39
81	Differential expression of 9-O-acetylated sialoglycoconjugates on leukemic blasts: A potential tool for long-term monitoring of children with acute lymphoblastic leukemia. <i>International Journal of Cancer</i> , 2004, 111, 270-277.	5.1	50
82	Antibodies against 9-O-acetylated sialoglycans: a potent marker to monitor clinical status in childhood acute lymphoblastic leukemia. <i>Clinical Biochemistry</i> , 2004, 37, 395-403.	1.9	22
83	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. <i>Diagnostic Microbiology and Infectious Disease</i> , 2004, 50, 15-24.	1.8	23
84	Protein A - a new ligand for human C-reactive protein. <i>FEBS Letters</i> , 2004, 576, 107-113.	2.8	15
85	Sialoglycans in protozoal diseases: Their detection, modes of acquisition and emerging biological roles. <i>Glycoconjugate Journal</i> , 2003, 20, 199-206.	2.7	27
86	Identification of 9-O-acetylated sialoglycans on peripheral blood mononuclear cells in Indian Visceral Leishmaniasis. <i>Glycoconjugate Journal</i> , 2003, 20, 531-536.	2.7	14
87	Variations in binding characteristics of glycosylated human C-reactive proteins in different pathological conditions. <i>Glycoconjugate Journal</i> , 2003, 20, 537-543.	2.7	31
88	Identification and characterization of adsorbed serum sialoglycans on <i>Leishmania donovani</i> promastigotes. <i>Glycobiology</i> , 2003, 13, 351-361.	2.5	56
89	Induction of glycosylation in human C-reactive protein under different pathological conditions. <i>Biochemical Journal</i> , 2003, 373, 345-355.	3.7	69
90	Development of an assay for quantification of linkage-specific O-acetylated sialoglycans on erythrocytes; its application in Indian visceral leishmaniasis. <i>Journal of Immunological Methods</i> , 2002, 270, 1-10.	1.4	20

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91	Acute Phase Response of C-Reactive Protein of <i>Labeo rohita</i> to Aquatic Pollutants Is Accompanied by the Appearance of Distinct Molecular Forms. <i>Archives of Biochemistry and Biophysics</i> , 2001, 396, 139-150.	3.0	30
92	Reply. <i>Biochemical and Biophysical Research Communications</i> , 2001, 288, 1069-1070.	2.1	0
93	O-acetyl sialic acid specific IgM in childhood acute lymphoblastic leukaemia. <i>Glycoconjugate Journal</i> , 2001, 18, 529-537.	2.7	24
94	Glycosylated molecular variants of C-reactive proteins from the major carp <i>Catla catla</i> in fresh and polluted aquatic environments. <i>Glycoconjugate Journal</i> , 2001, 18, 547-556.	2.7	14
95	Investigation of 9-o-acetylated sialoglycoconjugates in childhood acute lymphoblastic leukaemia. <i>British Journal of Haematology</i> , 2000, 110, 801-812.	2.5	59
96	Role of linkage specific 9-O-acetylated sialoglycoconjugates in activation of the alternate complement pathway in mammalian erythrocytes. <i>Glycoconjugate Journal</i> , 2000, 17, 887-893.	2.7	21
97	Lectin like properties and differential sugar binding characteristics of C-reactive proteins purified from sera of normal and pollutant induced <i>Labeo rohita</i> . <i>Glycoconjugate Journal</i> , 1999, 16, 741-750.	2.7	13
98	Diagnostic and Prognostic Potential of a Competitive Enzyme-Linked Immunosorbent Assay for Leishmaniasis in India. <i>Vaccine Journal</i> , 1999, 6, 550-554.	2.6	16
99	Effect of environmental pollutants on the c-reactive protein of a freshwater major carp, <i>Catla catla</i> . <i>Developmental and Comparative Immunology</i> , 1998, 22, 519-532.	2.3	42
100	Microheterogeneity of C-Reactive Protein in the Sera of Fish <i>Labeo rohita</i> Induced by Metal Pollutants. <i>Biochemical and Biophysical Research Communications</i> , 1996, 226, 681-687.	2.1	25
101	The specificity of the binding site of AchatininH, a sialic acid-binding lectin from <i>Achatina fulica</i> . <i>Carbohydrate Research</i> , 1995, 268, 115-125.	2.3	60
102	Immuno-suppressive Effect of Human Alphafetoprotein: A Cross Species Study. <i>Immunological Investigations</i> , 1993, 22, 329-339.	2.0	21
103	Isolation of a phosphoryl choline-binding protein from the hemolymph of the snail, <i>Achatina fulica</i> . <i>Developmental and Comparative Immunology</i> , 1991, 15, 227-239.	2.3	19
104	Functional Heterogeneity of Sialic Acid Binding Agglutinins of Rat Uteri Towards In Vitro Lymphocyte Transformation. <i>American Journal of Reproductive Immunology</i> , 1989, 20, 81-86.	1.2	8
105	An unique specificity of a sialic acid binding lectin AchatininH, from the hemolymph of <i>Achatina fulica</i> snail. <i>Biochemical and Biophysical Research Communications</i> , 1987, 148, 795-801.	2.1	56
106	A new cold agglutinin from <i>Achatina fulica</i> snails. <i>Archives of Biochemistry and Biophysics</i> , 1984, 233, 286-289.	3.0	24