

Jürgen Kopitz

List of Publications by Year in descending order

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81
papers

3,218
citations

147801

31
h-index

155660

55
g-index

83
all docs

83
docs citations

83
times ranked

2733
citing authors

#	ARTICLE	IF	CITATIONS
1	Galectin-1 Is a Major Receptor for Ganglioside GM1, a Product of the Growth-controlling Activity of a Cell Surface Ganglioside Sialidase, on Human Neuroblastoma Cells in Culture. <i>Journal of Biological Chemistry</i> , 1998, 273, 11205-11211.	3.4	263
2	Negative Regulation of Neuroblastoma Cell Growth by Carbohydrate-dependent Surface Binding of Galectin-1 and Functional Divergence from Galectin-3. <i>Journal of Biological Chemistry</i> , 2001, 276, 35917-35923.	3.4	256
3	Homodimeric galectin-7 (p53-induced gene 1) is a negative growth regulator for human neuroblastoma cells. <i>Oncogene</i> , 2003, 22, 6277-6288.	5.9	142
4	Tumor suppressor p16 ^{INK4a} is a modulator of glycomic profile and galectin-1 expression to increase susceptibility to carbohydrate-dependent induction of anoikis in pancreatic carcinoma cells. <i>FEBS Journal</i> , 2007, 274, 3233-3256.	4.7	141
5	Calixarene-Based Glycoclusters: Bioactivity of Thiourea-Linked Galactose/Lactose Moieties as Inhibitors of Binding of Medically Relevant Lectins to a Glycoprotein and Cell Surface Glycoconjugates and Selectivity among Human Adhesion/Growth-Regulatory Galectins. <i>ChemBioChem</i> , 2008, 9, 1649-1661.	2.6	134
6	Unique Conformer Selection of Human Growth-Regulatory Lectin Galectin-1 for Ganglioside GM ₁ versus Bacterial Toxins. <i>Biochemistry</i> , 2003, 42, 14762-14773.	2.5	131
7	Lipids and lipid peroxidation products in the pathogenesis of age-related macular degeneration. <i>Biochimie</i> , 2004, 86, 825-831.	2.6	129
8	The Plasma Membrane Ganglioside Sialidase Cofractionates with Markers of Lipid Rafts. <i>Biochemical and Biophysical Research Communications</i> , 2001, 283, 989-993.	2.1	88
9	The sugar code: letters and vocabulary, writers, editors and readers and biosignificance of functional glycan-lectin pairing. <i>Biochemical Journal</i> , 2019, 476, 2623-2655.	3.7	88
10	Role of Plasma Membrane Ganglioside Sialidase of Human Neuroblastoma Cells in Growth Control and Differentiation. <i>Biochemical and Biophysical Research Communications</i> , 1994, 199, 1188-1193.	2.1	82
11	The glycobiology of the CD system: a dictionary for translating marker designations into glycan/lectin structure and function. <i>Trends in Biochemical Sciences</i> , 2015, 40, 360-376.	7.5	81
12	Effects of cell surface ganglioside sialidase inhibition on growth control and differentiation of human neuroblastoma cells. <i>European Journal of Cell Biology</i> , 1997, 73, 1-9.	3.6	75
13	Lipid glycosylation: a primer for histochemists and cell biologists. <i>Histochemistry and Cell Biology</i> , 2017, 147, 175-198.	1.7	74
14	Selective ganglioside desialylation in the plasma membrane of human neuroblastoma cells. <i>Glycobiology</i> , 1996, 6, 367-376.	2.5	73
15	Sweet complementarity: the functional pairing of glycans with lectins. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1989-2016.	5.4	70
16	How adhesion/growth-regulatory galectins-1 and -3 attain cell specificity: Case study defining their target on neuroblastoma cells (SK-N-BE) and marked affinity regulation by affecting microdomain organization of the membrane. <i>IUBMB Life</i> , 2010, 62, 624-628.	3.4	66
17	Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. <i>Glycobiology</i> , 2016, 26, 888-903.	2.5	66
18	Context-dependent multifunctionality of galectin-1: a challenge for defining the lectin as therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2013, 17, 379-392.	3.4	63

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19	In-depth mass spectrometric mapping of the human vitreous proteome. <i>Proteome Science</i> , 2013, 11, 22.	1.7	58
20	Designâ€“functionality relationships for adhesion/growth-regulatory galectins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2837-2842.	7.1	57
21	Beyond glycoproteins as galectin counterreceptors: tumorâ€“effector T cell growth control via ganglioside GM1. <i>Annals of the New York Academy of Sciences</i> , 2012, 1253, 206-221.	3.8	53
22	Human chimera-type galectin-3: Defining the critical tail length for high-affinity glycoprotein/cell surface binding and functional competition with galectin-1 in neuroblastoma cell growth regulation. <i>Biochimie</i> , 2014, 104, 90-99.	2.6	47
23	Prototype chicken galectins revisited: characterization of a third protein with distinctive hydrodynamic behaviour and expression pattern in organs of adult animals. <i>Biochemical Journal</i> , 2008, 409, 591-599.	3.7	46
24	Ganglioside GM1/Galectin-Dependent Growth Regulation in Human Neuroblastoma Cells: Special Properties of Bivalent Galectin-4 and Significance of Linker Length for Ligand Selection. <i>Neurochemical Research</i> , 2012, 37, 1267-1276.	3.3	44
25	The HMGB1 protein induces a metabolic type of tumour cell death by blocking aerobic respiration. <i>Nature Communications</i> , 2016, 7, 10764.	12.8	41
26	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14677-14681.	13.8	41
27	Compensation of loss of protein function in microsatellite-unstable colon cancer cells (HCT116): A gene-dependent effect on the cell surface glycan profile. <i>Glycobiology</i> , 2009, 19, 726-734.	2.5	40
28	Natural single amino acid polymorphism (F19Y) in human galectinâ€“8: detection of structural alterations and increased growthâ€“regulatory activity on tumor cells. <i>FEBS Journal</i> , 2014, 281, 1446-1464.	4.7	40
29	Phosphorylated human galectin-3: Facile large-scale preparation of active lectin and detection of structural changes by CD spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 716-722.	2.4	36
30	Proteomics of vitreous in neovascular age-related macular degeneration. <i>Experimental Eye Research</i> , 2016, 146, 107-117.	2.6	36
31	Adhesion/growth-regulatory galectins tested in combination: evidence for formation of hybrids as heterodimers. <i>Biochemical Journal</i> , 2018, 475, 1003-1018.	3.7	32
32	Impact of sodium butyrate on the network of adhesion/growth-regulatory galectins in human colon cancer in vitro. <i>Anticancer Research</i> , 2014, 34, 5429-38.	1.1	31
33	Structural significance of galectin design: impairment of homodimer stability by linker insertion and partial reversion by ligand presence. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 199-210.	2.1	28
34	Glycan Chains of Gangliosides: Functional Ligands for Tissue Lectins (Siglecs/Galectins). <i>Progress in Molecular Biology and Translational Science</i> , 2018, 156, 289-324.	1.7	28
35	The ribosomal protein S6 in renal cell carcinoma: functional relevance and potential as biomarker. <i>Oncotarget</i> , 2016, 7, 418-432.	1.8	28
36	Chicken GRIFIN: A homodimeric member of the galectin network with canonical properties and a unique expression profile. <i>Biochimie</i> , 2016, 128-129, 34-47.	2.6	26

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37	TGFBR2-dependent alterations of exosomal cargo and functions in DNA mismatch repair-deficient HCT116 colorectal cancer cells. <i>Cell Communication and Signaling</i> , 2017, 15, 14.	6.5	26
38	Lectinology 4.0: Altering modular (ga)lectin display for functional analysis and biomedical applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 935-940.	2.4	26
39	Galectin-related protein: An integral member of the network of chicken galectins 1. From strong sequence conservation of the gene confined to vertebrates to biochemical characteristics of the chicken protein and its crystal structure. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2285-2297.	2.4	23
40	Adhesion/growth-regulatory galectins in the human eye: localization profiles and tissue reactivities as a standard to detect disease-associated alterations. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2012, 250, 1169-1180.	1.9	21
41	Proteomic Analysis of Vitreous Humor in Retinal Vein Occlusion. <i>PLoS ONE</i> , 2016, 11, e0158001.	2.5	21
42	What is the Sugar Code?. <i>ChemBioChem</i> , 2022, 23, .	2.6	20
43	The Impact of Plasma Cholinergic Enzyme Activity and Other Risk Factors for the Development of Delirium in Patients Receiving Palliative Care. <i>Journal of Pain and Symptom Management</i> , 2016, 52, 525-532.	1.2	18
44	Single-Site Mutational Engineering and Following MonoPEGylation of the Human Lectin Galectin-2: Effects on Ligand Binding, Functional Aspects, and Clearance from Serum. <i>Molecular Pharmaceutics</i> , 2013, 10, 2054-2061.	4.6	17
45	Chicken lens development: complete signature of expression of galectins during embryogenesis and evidence for their complex formation with β 1-, β 2-, β 3-, and β 4-crystallins, N-CAM, and N-cadherin obtained by affinity chromatography. <i>Cell and Tissue Research</i> , 2020, 379, 13-35.	2.9	17
46	Probing sulfatide-tissue lectin recognition with functionalized glycodendrimersomes. <i>IScience</i> , 2021, 24, 101919.	4.1	17
47	How presence of a signal peptide affects human galectins-1 and -4: Clues to explain common absence of a leader sequence among adhesion/growth-regulatory galectins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129449.	2.4	16
48	Hippocampal neurons and recombinant galectins as tools for systematic carbohydrate structure-function studies in neuronal differentiation. <i>Developmental Brain Research</i> , 2004, 153, 189-196.	1.7	15
49	Intraocular Pharmacokinetics of Aflibercept and Vascular Endothelial Growth Factor-A. , 2015, 56, 5574.		15
50	Reconstitution of TGFBR2 in HCT116 colorectal cancer cells causes increased LFNG expression and enhanced N-acetyl-d-glucosamine incorporation into Notch1. <i>Cellular Signalling</i> , 2016, 28, 1105-1113.	3.6	14
51	Detection of malignancy-associated phosphoproteome changes in human colorectal cancer induced by cell surface binding of growth-inhibitory galectin-4. <i>IUBMB Life</i> , 2019, 71, 364-375.	3.4	14
52	A new method for detection of tumor driver-dependent changes of protein sialylation in a colon cancer cell line reveals nectin-3 as TGFBR2 target. <i>Protein Science</i> , 2015, 24, 1686-1694.	7.6	13
53	SILAC-Based Quantification of TGFBR2-Regulated Protein Expression in Extracellular Vesicles of Microsatellite Unstable Colorectal Cancers. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4162.	4.1	13
54	Chicken GRIFIN: binding partners, developmental course of localization and activation of its lens-specific gene expression by L-Maf/Pax6. <i>Cell and Tissue Research</i> , 2019, 375, 665-683.	2.9	13

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55	HMGB1: The metabolic weapon in the arsenal of NK cells. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1175538.	0.7	12
56	Limitations of the Anticholinergic Activity Assay and Assay-Based Anticholinergic Drug Scales. <i>American Journal of Geriatric Psychiatry</i> , 2016, 24, 1182-1188.	1.2	12
57	Studying the Structural Significance of Galectin Design by Playing a Modular Puzzle: Homodimer Generation from Human Tandem-Repeat-Type (Heterodimeric) Galectin-8 by Domain Shuffling. <i>Molecules</i> , 2017, 22, 1572.	3.8	12
58	Proinflammatory Extracellular Vesicle-Mediated Signaling Contributes to the Induction of Neuroinflammation in Animal Models of Endotoxemia and Peripheral Surgical Stress. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1325-1336.	3.3	11
59	Pro4 prolyl peptide bond isomerization in human galectin-7 modulates the monomer-dimer equilibrium to affect function. <i>Biochemical Journal</i> , 2020, 477, 3147-3165.	3.7	11
60	TGFBR2-dependent alterations of microRNA profiles in extracellular vesicles and parental colorectal cancer cells. <i>International Journal of Oncology</i> , 2019, 55, 925-937.	3.3	9
61	De Novo Proteome Analysis of Genetically Modified Tumor Cells By a Metabolic Labeling/Azide-alkyne Cycloaddition Approach. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 3446-3456.	3.8	8
62	In-depth characterization of the neuroinflammatory reaction induced by peripheral surgery in an animal model. <i>Journal of Neural Transmission</i> , 2018, 125, 1487-1494.	2.8	8
63	Playing Modular Puzzle with Adhesion/Growth-Regulatory Galectins: Design and Testing of a Hybrid to Unravel Structure-Activity Relationships. <i>Protein and Peptide Letters</i> , 2016, 23, 1003-1012.	0.9	8
64	In contrast to its anti-inflammatory and anti-apoptotic peripheral effect, levosimendan failed to induce a long-term neuroprotective effect in a rat model of mild septic encephalopathy: A pilot study. <i>Neuroscience Letters</i> , 2014, 560, 117-121.	2.1	7
65	Calorimetric Analysis of the Interplay between Synthetic Tn Antigen-Presenting MUC1 Glycopeptides and Human Macrophage Galactose-Type Lectin. <i>Biochemistry</i> , 2021, 60, 547-558.	2.5	7
66	Imitating evolution's tinkering by protein engineering reveals extension of human galectin-7 activity. <i>Histochemistry and Cell Biology</i> , 2021, 156, 253-272.	1.7	7
67	Reconstitution of TGFBR2-Mediated Signaling Causes Upregulation of GDF-15 in HCT116 Colorectal Cancer Cells. <i>PLoS ONE</i> , 2015, 10, e0131506.	2.5	6
68	Neuroinflammation: effect of surgical stress compared to anaesthesia and effect of physostigmine. <i>Neurological Research</i> , 2016, 38, 397-405.	1.3	6
69	Ablation of the Right Cardiac Vagus Nerve Reduces Acetylcholine Content without Changing the Inflammatory Response during Endotoxemia. <i>International Journal of Molecular Sciences</i> , 2018, 19, 442.	4.1	6
70	Distinct Activities of Glycolytic Enzymes Identify Chronic Lymphocytic Leukemia Patients with a more Aggressive Course and Resistance to Chemo-Immunotherapy. <i>EBioMedicine</i> , 2018, 32, 125-133.	6.1	6
71	(Phospho)proteomic Profiling of Microsatellite Unstable CRC Cells Reveals Alterations in Nuclear Signaling and Cholesterol Metabolism Caused by Frameshift Mutation of NMD Regulator UPF3A. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5234.	4.1	6
72	Surgery-induced changes in rat IL1 and acetylcholine metabolism: role of physostigmine. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014, 41, n/a-n/a.	1.9	5

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73	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. <i>Angewandte Chemie</i> , 2017, 129, 14869-14873.	2.0	4
74	Combining Recombinase-Mediated Cassette Exchange Strategy with Quantitative Proteomic and Phosphoproteomic Analyses to Inspect Intracellular Functions of the Tumor Suppressor Galectin-4 in Colorectal Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6414.	4.1	4
75	Deciphering the galectin-12 protein interactome reveals a major impact of galectin-12 on glutamine anaplerosis in colon cancer cells. <i>Experimental Cell Research</i> , 2019, 379, 129-139.	2.6	3
76	Treatment resistance analysis reveals GLUT4-mediated glucose uptake as a major target of synthetic rocaglates in cancer cells. <i>Cancer Medicine</i> , 2021, 10, 6807-6822.	2.8	2
77	Increased hippocampal CD38 and systemic inflammation after partial hepatectomy does not induce impairment of spatial cognition. <i>Neurological Research</i> , 2016, 38, 973-980.	1.3	1
78	Combining Click Chemistry-Based Proteomics With Dox-Inducible Gene Expression. <i>Methods in Enzymology</i> , 2017, 585, 295-327.	1.0	1
79	Differential Glycosite Profiling – A Versatile Method to Compare Membrane Glycoproteomes. <i>Molecules</i> , 2021, 26, 3564.	3.8	0
80	In Memoriam. <i>Histochemistry and Cell Biology</i> , 2021, 156, 401-403.	1.7	0
81	What Happens If a Human Galectin Enters the Endoplasmic Reticulum?. <i>Methods in Molecular Biology</i> , 2022, 2442, 247-288.	0.9	0