

Jürgen Kopitz

List of Publications by Year in descending order

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Version: 2024-02-01

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 | What is the Sugar Code?. ChemBioChem, 2022, 23, . | 2.6 | 20 |
| 2 | What Happens If a Human Galectin Enters the Endoplasmic Reticulum?. Methods in Molecular Biology, 2022, 2442, 247-288. | 0.9 | 0 |
| 3 | 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. International Journal of Molecular Sciences, 2022, 23, 6414. | 4.1 | 4 |
| 4 | Proinflammatory Extracellular Vesicle-Mediated Signaling Contributes to the Induction of Neuroinflammation in Animal Models of Endotoxemia and Peripheral Surgical Stress. Cellular and Molecular Neurobiology, 2021, 41, 1325-1336. | 3.3 | 11 |
| 5 | Probing sulfatide-tissue lectin recognition with functionalized glycodendrimersomes. Science, 2021, 24, 101919. | 4.1 | 17 |
| 6 | Calorimetric Analysis of the Interplay between Synthetic Tn Antigen-Presenting MUC1 Glycopeptides and Human Macrophage Galactose-Type Lectin. Biochemistry, 2021, 60, 547-558. | 2.5 | 7 |
| 7 | Differential Glycosite Profiling – A Versatile Method to Compare Membrane Glycoproteomes. Molecules, 2021, 26, 3564. | 3.8 | 0 |
| 8 | Imitating evolution – TM's tinkering by protein engineering reveals extension of human galectin-7 activity. Histochemistry and Cell Biology, 2021, 156, 253-272. | 1.7 | 7 |
| 9 | Treatment resistance analysis reveals GLUT1-mediated glucose uptake as a major target of synthetic rocaglates in cancer cells. Cancer Medicine, 2021, 10, 6807-6822. | 2.8 | 2 |
| 10 | In Memoriam. Histochemistry and Cell Biology, 2021, 156, 401-403. | 1.7 | 0 |
| 11 | 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. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129449. | 2.4 | 16 |
| 12 | Chicken lens development: complete signature of expression of galectins during embryogenesis and evidence for their complex formation with Î±-, Î²-, Î³-, and Î´,-crystallins, N-CAM, and N-cadherin obtained by affinity chromatography. Cell and Tissue Research, 2020, 379, 13-35. | 2.9 | 17 |
| 13 | (Phospho)proteomic Profiling of Microsatellite Unstable CRC Cells Reveals Alterations in Nuclear Signaling and Cholesterol Metabolism Caused by Frameshift Mutation of NMD Regulator UPF3A. International Journal of Molecular Sciences, 2020, 21, 5234. | 4.1 | 6 |
| 14 | Pro4 prolyl peptide bond isomerization in human galectin-7 modulates the monomer-dimer equilibrium to affect function. Biochemical Journal, 2020, 477, 3147-3165. | 3.7 | 11 |
| 15 | Detection of malignancy-associated phosphoproteome changes in human colorectal cancer induced by cell surface binding of growth-inhibitory galectin-4. IUBMB Life, 2019, 71, 364-375. | 3.4 | 14 |
| 16 | SILAC-Based Quantification of TGFBR2-Regulated Protein Expression in Extracellular Vesicles of Microsatellite Unstable Colorectal Cancers. International Journal of Molecular Sciences, 2019, 20, 4162. | 4.1 | 13 |
| 17 | The sugar code: letters and vocabulary, writers, editors and readers and biosignificance of functional glycan-lectin pairing. Biochemical Journal, 2019, 476, 2623-2655. | 3.7 | 88 |
| 18 | Lectinology 4.0: Altering modular (ga)lectin display for functional analysis and biomedical applications. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 935-940. | 2.4 | 26 |

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|----|--|------|-----------|
| 19 | 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 |
| 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 | TGFB2â€“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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Combining Click Chemistry-Based Proteomics With Dox-Inducible Gene Expression. <i>Methods in Enzymology</i> , 2017, 585, 295-327. | 1.0 | 1 |
| 29 | TGFB2-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 |
| 30 | Lipid glycosylation: a primer for histochemists and cell biologists. <i>Histochemistry and Cell Biology</i> , 2017, 147, 175-198. | 1.7 | 74 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Neuroinflammation: effect of surgical stress compared to anaesthesia and effect of physostigmine. <i>Neurological Research</i> , 2016, 38, 397-405. | 1.3 | 6 |
| 35 | HMGB1: The metabolic weapon in the arsenal of NK cells. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1175538. | 0.7 | 12 |
| 36 | Reconstitution of TGFB2 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 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Proteomics of vitreous in neovascular age-related macular degeneration. <i>Experimental Eye Research</i> , 2016, 146, 107-117. | 2.6 | 36 |
| 44 | Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. <i>Glycobiology</i> , 2016, 26, 888-903. | 2.5 | 66 |
| 45 | Sweet complementarity: the functional pairing of glycans with lectins. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1989-2016. | 5.4 | 70 |
| 46 | Proteomic Analysis of Vitreous Humor in Retinal Vein Occlusion. <i>PLoS ONE</i> , 2016, 11, e0158001. | 2.5 | 21 |
| 47 | The ribosomal protein S6 in renal cell carcinoma: functional relevance and potential as biomarker. <i>Oncotarget</i> , 2016, 7, 418-432. | 1.8 | 28 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Intraocular Pharmacokinetics of Aflibercept and Vascular Endothelial Growth Factor-A. , 2015, 56, 5574. | | 15 |
| 52 | 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 |
| 53 | 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 |
| 54 | Natural single amino acid polymorphism (F19Y) in human galectin-8: detection of structural alterations and increased growth-regulatory activity on tumor cells. <i>FEBS Journal</i> , 2014, 281, 1446-1464. | 4.7 | 40 |

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| 55 | 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 |
| 56 | Surgery-induced changes in rat IL1Ä and acetylcholine metabolism: role of physostigmine. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014, 41, n/a-n/a. | 1.9 | 5 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | In-depth mass spectrometric mapping of the human vitreous proteome. <i>Proteome Science</i> , 2013, 11, 22. | 1.7 | 58 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | How adhesion/growthâ€regulatory galectinsâ€1 and â€3 attain cell specificity: Case study defining their target on neuroblastoma cells (SKâ€Nâ€MC) and marked affinity regulation by affecting microdomain organization of the membrane. <i>IUBMB Life</i> , 2010, 62, 624-628. | 3.4 | 66 |
| 67 | 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 |
| 68 | Calix[<i>n</i>]areneâ€Based Glycoclusters: Bioactivity of Thioureaâ€Linked Galactose/Lactose Moieties as Inhibitors of Binding of Medically Relevant Lectins to a Glycoprotein and Cellâ€Surface Glycoconjugates and Selectivity among Human Adhesion/Growthâ€Regulatory Galectins. <i>ChemBioChem</i> , 2008, 9, 1649-1661. | 2.6 | 134 |
| 69 | 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 |
| 70 | 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 |
| 71 | Tumor suppressor p16 ^{INK4a} â€modulator of glycomic profile and galectinâ€1 expression to increase susceptibility to carbohydrateâ€dependent induction of anoikis in pancreatic carcinoma cells. <i>FEBS Journal</i> , 2007, 274, 3233-3256. | 4.7 | 141 |
| 72 | Hippocampal neurons and recombinant galectins as tools for systematic carbohydrate structureâ€function studies in neuronal differentiation. <i>Developmental Brain Research</i> , 2004, 153, 189-196. | 1.7 | 15 |

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|----|--|-----|-----------|
| 73 | Lipids and lipid peroxidation products in the pathogenesis of age-related macular degeneration. <i>Biochimie</i> , 2004, 86, 825-831. | 2.6 | 129 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | Galectin-1 Is a Major Receptor for Ganglioside GM ₁ , 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 |
| 79 | 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 |
| 80 | Selective ganglioside desialylation in the plasma membrane of human neuroblastoma cells. <i>Glycobiology</i> , 1996, 6, 367-376. | 2.5 | 73 |
| 81 | 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 |