

Gunnar Dittmar

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

13,886
citations

76196

40
h-index

23472

111
g-index

132
all docs

132
docs citations

132
times ranked

25378
citing authors

#	ARTICLE	IF	CITATIONS
1	Global quantification of mammalian gene expression control. <i>Nature</i> , 2011, 473, 337-342.	13.7	5,498
2	Translation of CircRNAs. <i>Molecular Cell</i> , 2017, 66, 9-21.e7.	4.5	1,431
3	Senescence-associated reprogramming promotes cancer stemness. <i>Nature</i> , 2018, 553, 96-100.	13.7	714
4	Proteasome subunit Rpn1 binds ubiquitin-like protein domains. <i>Nature Cell Biology</i> , 2002, 4, 725-730.	4.6	416
5	Cell Cycle-Regulated Modification of the Ribosome by a Variant Multiubiquitin Chain. <i>Cell</i> , 2000, 102, 67-76.	13.5	347
6	Global analysis of cellular protein translation by pulsed SILAC. <i>Proteomics</i> , 2009, 9, 205-209.	1.3	314
7	A map of human circular RNAs in clinically relevant tissues. <i>Journal of Molecular Medicine</i> , 2017, 95, 1179-1189.	1.7	286
8	A Cytoplasmic ATM-TRAF6-clAP1 Module Links Nuclear DNA Damage Signaling to Ubiquitin-Mediated NF- κ B Activation. <i>Molecular Cell</i> , 2010, 40, 63-74.	4.5	247
9	Elevated Proteasome Capacity Extends Replicative Lifespan in <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2011, 7, e1002253.	1.5	202
10	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , 2021, 18, 604-617.	9.0	198
11	The E3 Ligase Parkin Maintains Mitochondrial Integrity by Increasing Linear Ubiquitination of NEMO. <i>Molecular Cell</i> , 2013, 49, 908-921.	4.5	183
12	Resolving Lipid Mediators Maresin 1 and Resolvin D2 Prevent Atheroprogession in Mice. <i>Circulation Research</i> , 2016, 119, 1030-1038.	2.0	180
13	Neural precursor cells induce cell death of high-grade astrocytomas through stimulation of TRPV1. <i>Nature Medicine</i> , 2012, 18, 1232-1238.	15.2	159
14	The tRNA methyltransferase Dnmt2 is required for accurate polypeptide synthesis during haematopoiesis. <i>EMBO Journal</i> , 2015, 34, 2350-2362.	3.5	154
15	The CHK2-BRCA1 tumour suppressor pathway ensures chromosomal stability in human somatic cells. <i>Nature Cell Biology</i> , 2010, 12, 492-499.	4.6	136
16	Queuosine-modified tRNAs confer nutritional control of protein translation. <i>EMBO Journal</i> , 2018, 37, .	3.5	134
17	Glioma-derived versican promotes tumor expansion via glioma-associated microglial/macrophages Toll-like receptor 2 signaling. <i>Neuro-Oncology</i> , 2015, 17, 200-210.	0.6	131
18	Simultaneous extraction of proteins and metabolites from cells in culture. <i>MethodsX</i> , 2014, 1, 74-80.	0.7	125

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19	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. PLoS ONE, 2015, 10, e0126536.	1.1	111
20	Crosstalk between C/EBP β phosphorylation, arginine methylation, and SWI/SNF/Mediator implies an indexing transcription factor code. EMBO Journal, 2010, 29, 1105-1115.	3.5	90
21	Two Deubiquitylases Act on Mitofusin and Regulate Mitochondrial Fusion along Independent Pathways. Molecular Cell, 2013, 49, 487-498.	4.5	85
22	Role of a Ubiquitin-Like Modification in Polarized Morphogenesis. Science, 2002, 295, 2442-2446.	6.0	82
23	Complement Receptor Mac-1 Is an Adaptor for NB1 (CD177)-mediated PR3-ANCA Neutrophil Activation. Journal of Biological Chemistry, 2011, 286, 7070-7081.	1.6	77
24	Quantitative proteomic analysis of Parkin substrates in Drosophila neurons. Molecular Neurodegeneration, 2017, 12, 29.	4.4	77
25	RNA sequencing and transcriptome arrays analyses show opposing results for alternative splicing in patient derived samples. BMC Genomics, 2017, 18, 443.	1.2	74
26	Linear Ubiquitin Chains: Cellular Functions and Strategies for Detection and Quantification. Frontiers in Chemistry, 2019, 7, 915.	1.8	70
27	Inflammation-Induced Acute Phase Response in Skeletal Muscle and Critical Illness Myopathy. PLoS ONE, 2014, 9, e92048.	1.1	70
28	Prognostic Biomarkers in Endometrial Cancer: A Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 2020, 9, 1900.	1.0	67
29	PA28 β Reduces Size and Increases Hydrophilicity of 20S Immunoproteasome Peptide Products. Chemistry and Biology, 2014, 21, 470-480.	6.2	65
30	Sequential Poly-ubiquitylation by Specialized Conjugating Enzymes Expands the Versatility of a Quality Control Ubiquitin Ligase. Molecular Cell, 2016, 63, 827-839.	4.5	65
31	A protein quality control pathway regulated by linear ubiquitination. EMBO Journal, 2019, 38, .	3.5	63
32	Deregulated Splicing Is a Major Mechanism of RNA-Induced Toxicity in Huntington's Disease. Journal of Molecular Biology, 2019, 431, 1869-1877.	2.0	57
33	Ubiquitin-like Protein Hub1 Is Required for Pre-mRNA Splicing and Localization of an Essential Splicing Factor in Fission Yeast. Current Biology, 2004, 14, 2283-2288.	1.8	56
34	Initiation of acute graft-versus-host disease by angiogenesis. Blood, 2017, 129, 2021-2032.	0.6	56
35	Ubiquitin Binding by a CUE Domain Regulates Ubiquitin Chain Formation by ERAD E3 Ligases. Molecular Cell, 2013, 50, 528-539.	4.5	54
36	Neutrophil serine proteases exert proteolytic activity on endothelial cells. Kidney International, 2015, 88, 764-775.	2.6	51

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37	Molecular Insights into Arrhythmogenic Right Ventricular Cardiomyopathy Caused by Plakophilin-2 Missense Mutations. <i>Circulation: Cardiovascular Genetics</i> , 2012, 5, 400-411.	5.1	49
38	Quantitative Dissection and Modeling of the NF- κ B p100-p105 Module Reveals Interdependent Precursor Proteolysis. <i>Cell Reports</i> , 2014, 9, 1756-1769.	2.9	49
39	RNF4-Dependent Oncogene Activation by Protein Stabilization. <i>Cell Reports</i> , 2016, 16, 3388-3400.	2.9	46
40	Clinical variability in distal spinal muscular atrophy type 1 (DSMA1): determination of steady-state IGHMBP2 protein levels in five patients with infantile and juvenile disease. <i>Journal of Molecular Medicine</i> , 2009, 87, 31-41.	1.7	43
41	The arginine methyltransferase PRMT7 promotes extravasation of monocytes resulting in tissue injury in COPD. <i>Nature Communications</i> , 2022, 13, 1303.	5.8	42
42	Proteomic Analysis of the Ubiquitin Landscape in the Drosophila Embryonic Nervous System and the Adult Photoreceptor Cells. <i>PLoS ONE</i> , 2015, 10, e0139083.	1.1	39
43	Muscle RING-finger 2 and 3 maintain striated-muscle structure and function. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2016, 7, 165-180.	2.9	39
44	SorCS2 Controls Functional Expression of Amino Acid Transporter EAAT3 and Protects Neurons from Oxidative Stress and Epilepsy-Induced Pathology. <i>Cell Reports</i> , 2019, 26, 2792-2804.e6.	2.9	39
45	Influence of wood species on toxicity of log-wood stove combustion aerosols: a parallel animal and air-liquid interface cell exposure study on spruce and pine smoke. <i>Particle and Fibre Toxicology</i> , 2020, 17, 27.	2.8	38
46	Highly Multiplexed Targeted Proteomics Acquisition on a TIMS-QTOF. <i>Analytical Chemistry</i> , 2021, 93, 1383-1392.	3.2	38
47	Using in Vivo Biotinylated Ubiquitin to Describe a Mitotic Exit Ubiquitome from Human Cells. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2411-2425.	2.5	37
48	Fisetin protects against cardiac cell death through reduction of ROS production and caspases activity. <i>Scientific Reports</i> , 2020, 10, 2896.	1.6	37
49	Identification of Increased Amounts of Eppin Protein Complex Components in Sperm Cells of Diabetic and Obese Individuals by Difference Gel Electrophoresis. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.007187.	2.5	36
50	SORCS 1 and SORCS 3 control energy balance and orexigenic peptide production. <i>EMBO Reports</i> , 2018, 19, .	2.0	36
51	New insights into the organization and regulation of the apical polarity network in mammalian epithelial cells. <i>FEBS Journal</i> , 2021, 288, 7073-7095.	2.2	36
52	The Yeast Plasma Membrane ATP Binding Cassette (ABC) Transporter Aus1. <i>Journal of Biological Chemistry</i> , 2011, 286, 21835-21843.	1.6	35
53	Proteomic techniques to probe the ubiquitin landscape. <i>Proteomics</i> , 2016, 16, 273-287.	1.3	34
54	Bimodal antagonism of PKA signalling by ARHGAP36. <i>Nature Communications</i> , 2016, 7, 12963.	5.8	33

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55	Inhibition of the MID1 protein complex: a novel approach targeting APP protein synthesis. <i>Cell Death Discovery</i> , 2018, 4, 4.	2.0	33
56	Hypoxia-Induced Adaptations of miRNomes and Proteomes in Melanoma Cells and Their Secreted Extracellular Vesicles. <i>Cancers</i> , 2020, 12, 692.	1.7	32
57	Ubiquitin Profiling in Liver Using a Transgenic Mouse with Biotinylated Ubiquitin. <i>Journal of Proteome Research</i> , 2014, 13, 3016-3026.	1.8	31
58	Differential proteomic analysis of mouse macrophages exposed to adsorbate-loaded heavy fuel oil derived combustion particles using an automated sample-preparation workflow. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5965-5976.	1.9	31
59	PRISMA: Protein Interaction Screen on Peptide Matrix Reveals Interaction Footprints and Modifications- Dependent Interactome of Intrinsically Disordered C/EBP β . <i>iScience</i> , 2019, 13, 351-370.	1.9	31
60	Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel. <i>PLoS ONE</i> , 2016, 11, e0157964.	1.1	29
61	Connecting Histopathology Imaging and Proteomics in Kidney Cancer through Machine Learning. <i>Journal of Clinical Medicine</i> , 2019, 8, 1535.	1.0	27
62	Crosstalk between phosphorylation and multi-site arginine/lysine methylation in C/EBPs. <i>Transcription</i> , 2011, 2, 3-8.	1.7	26
63	On the relation between filament density, force generation, and protrusion rate in mesenchymal cell motility. <i>Molecular Biology of the Cell</i> , 2018, 29, 2674-2686.	0.9	24
64	AN1-type zinc finger protein 3 (ZFAND3) is a transcriptional regulator that drives Glioblastoma invasion. <i>Nature Communications</i> , 2020, 11, 6366.	5.8	24
65	Deconvolution of transcriptomes and miRNomes by independent component analysis provides insights into biological processes and clinical outcomes of melanoma patients. <i>BMC Medical Genomics</i> , 2019, 12, 132.	0.7	22
66	The Î β kinase complex is a regulator of mRNA stability. <i>EMBO Journal</i> , 2018, 37, .	3.5	21
67	Identification of Importin Î± 7 Specific Transport Cargoes Using a Proteomic Screening Approach. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1286-1298.	2.5	20
68	SILAC for biomarker discovery. <i>Proteomics - Clinical Applications</i> , 2015, 9, 301-306.	0.8	20
69	Mitochondria preserve an autarkic one-carbon cycle to confer growth-independent cancer cell migration and metastasis. <i>Nature Communications</i> , 2022, 13, 2699.	5.8	20
70	Cloning, sequencing and expression of ribonucleotide reductase R2 from <i>Trypanosoma brucei</i> . <i>FEBS Letters</i> , 1997, 414, 449-453.	1.3	19
71	Cyclin-Dependent Kinase 18 Controls Trafficking of Aquaporin-2 and Its Abundance through Ubiquitin Ligase STUB1, Which Functions as an AKAP. <i>Cells</i> , 2020, 9, 673.	1.8	19
72	Protein Kinase Ymr291w/Tda1 Is Essential for Glucose Signaling in <i>Saccharomyces cerevisiae</i> on the Level of Hexokinase Isoenzyme ScHxk2 Phosphorylation*. <i>Journal of Biological Chemistry</i> , 2015, 290, 6243-6255.	1.6	18

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73	Statin-induced myopathic changes in primary human muscle cells and reversal by a prostaglandin F2 alpha analogue. <i>Scientific Reports</i> , 2020, 10, 2158.	1.6	18
74	Proteomic and Functional Consequences of Hexokinase Deficiency in Glucose-repressible <i>Kluyveromyces lactis</i> . <i>Molecular and Cellular Proteomics</i> , 2014, 13, 860-875.	2.5	17
75	DCAF8, a novel MuRF1 interaction partner, promotes muscle atrophy. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	17
76	PRISMA and BioID disclose a motifs-based interactome of the intrinsically disordered transcription factor C/EBP β . <i>iScience</i> , 2021, 24, 102686.	1.9	16
77	Analysis of ubiquitin signaling and chain topology cross-talk. <i>Journal of Proteomics</i> , 2020, 215, 103634.	1.2	15
78	A Universal Peptide Matrix Interactomics Approach to Disclose Motif-Dependent Protein Binding. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100135.	2.5	15
79	MicroRNA-34a promotes genomic instability by a broad suppression of genome maintenance mechanisms downstream of the oncogene KSHV-vGPCR. <i>Oncotarget</i> , 2016, 7, 10414-10432.	0.8	15
80	Shedding Light on the Venom Proteomes of the Allergy-Relevant Hymenoptera <i>Polistes dominula</i> (European Paper Wasp) and <i>Vespula</i> spp. (Yellow Jacket). <i>Toxins</i> , 2020, 12, 323.	1.5	14
81	A differential proteome screening system for post-translational modificationâ€“dependent transcription factor interactions. <i>Nature Protocols</i> , 2011, 6, 359-364.	5.5	13
82	S-palmitoylation Is Required for the Control of Growth Cone Morphology of DRG Neurons by CNP-Induced cGMP Signaling. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 345.	1.4	13
83	Targeted proteomics on its way to discovery. <i>Proteomics</i> , 2022, 22, .	1.3	13
84	Deciphering the Ubiquitin Code. <i>Molecular Cell</i> , 2017, 65, 779-780.	4.5	12
85	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. <i>Biochemical Journal</i> , 2019, 476, 783-794.	1.7	12
86	MACC1 regulates clathrin-mediated endocytosis and receptor recycling of transferrin receptor and EGFR in colorectal cancer. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3525-3542.	2.4	12
87	Unique properties of PTEN-L contribute to neuroprotection in response to ischemic-like stress. <i>Scientific Reports</i> , 2019, 9, 3183.	1.6	11
88	The clinical potential of prm-PASEF mass spectrometry. <i>Expert Review of Proteomics</i> , 2021, 18, 75-82.	1.3	11
89	Isolation of native plasma membrane H ⁺ -ATPase (Pma1p) in both the active and basal activation states. <i>FEBS Open Bio</i> , 2018, 8, 774-783.	1.0	10
90	Cystathionine- β -lyase drives antioxidant defense in cysteine-restricted IDH1-mutant astrocytomas. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab057.	0.4	10

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91	The ARFRP1-dependent Golgi scaffolding protein GOPC is required for insulin secretion from pancreatic β -cells. <i>Molecular Metabolism</i> , 2021, 45, 101151.	3.0	10
92	Dual role of a GTPase conformational switch for membrane fusion by mitofusin ubiquitylation. <i>Life Science Alliance</i> , 2020, 3, e201900476.	1.3	10
93	Single-cell transcriptomics of human iPSC differentiation dynamics reveal a core molecular network of Parkinson's disease. <i>Communications Biology</i> , 2022, 5, 49.	2.0	10
94	Organ siderosis and hemophagocytosis during acute graft-versus-host disease. <i>Haematologica</i> , 2016, 101, e344-e346.	1.7	9
95	Tissue Specific Labeling in Proteomics. <i>Proteomes</i> , 2017, 5, 17.	1.7	9
96	Purification and characterisation of the yeast plasma membrane ATP binding cassette transporter Pdr11p. <i>PLoS ONE</i> , 2017, 12, e0184236.	1.1	9
97	The Proteasome Activators Blm10/PA200 Enhance the Proteasomal Degradation of N-Terminal Huntingtin. <i>Biomolecules</i> , 2020, 10, 1581.	1.8	9
98	The newly identified MEK1 tyrosine phosphorylation target MACC1 is druggable by approved MEK1 inhibitors to restrict colorectal cancer metastasis. <i>Oncogene</i> , 2021, 40, 5286-5301.	2.6	9
99	Peptide array-based interactomics. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5561-5566.	1.9	8
100	In silico Approach for Validating and Unveiling New Applications for Prognostic Biomarkers of Endometrial Cancer. <i>Cancers</i> , 2021, 13, 5052.	1.7	8
101	Functional Significance of Conserved Cysteines in the Extracellular Loops of the ATP Binding Cassette Transporter Pdr11p. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 2.	1.5	8
102	An antigen microarray protocol for COVID-19 serological analysis. <i>STAR Protocols</i> , 2021, 2, 100815.	0.5	7
103	Allergen Content of Therapeutic Preparations for Allergen-Specific Immunotherapy of European Paper Wasp Venom Allergy. <i>Toxins</i> , 2022, 14, 284.	1.5	7
104	MAPPING OF G2/M-PHASE PREVALENCES OF CHAPERON-ENCODING TRANSCRIPTS BY MEANS OF A SENSITIVE DIFFERENTIAL HYBRIDIZATION APPROACH. <i>Cell Biology International</i> , 1997, 21, 383-391.	1.4	6
105	Assessment of Ubiquitin Chain Topology by Targeted Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019, 1977, 25-34.	0.4	5
106	Enzymatic activity of glycosyltransferase GLT8D1 promotes human glioblastoma cell migration. <i>IScience</i> , 2022, 25, 103842.	1.9	5
107	Hub genes in a pan-cancer co-expression network show potential for predicting drug responses. <i>F1000Research</i> , 2018, 7, 1906.	0.8	4
108	Ubiquitin-like Protein Hub1 Is Required for pre-mRNA Splicing and Localization of an Essential Splicing Factor in Fission Yeast. <i>Current Biology</i> , 2006, 16, 2488.	1.8	3

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109	Hub genes in a pan-cancer co-expression network show potential for predicting drug responses. F1000Research, 2018, 7, 1906.	0.8	3
110	Analysis of the Dynamic Proteasome Structure by Cross-Linking Mass Spectrometry. Biomolecules, 2021, 11, 505.	1.8	2
111	Novel insights into proteomic technologies and their clinical perspective. Genome Medicine, 2009, 1, 53.	3.6	1
112	Branching and Mixing: New Signals of the Ubiquitin Signaling System. , 0, , .		1
113	Ubiquitin Chain Analysis by Parallel Reaction Monitoring. Journal of Visualized Experiments, 2020, , .	0.2	0
114	Cross-Species Investigations Reveal Role, Mechanism and Predictive Power of Paracrine, Secondary Senescence in B-Cell Lymphoma Therapy. Blood, 2012, 120, 3715-3715.	0.6	0
115	Abstract 4119: Tyrosine phosphorylation of MACC1 is essential and druggable for colorectal cancer metastasis restriction. , 2015, , .		0
116	Initiation of Acute Graft-Versus-Host Disease By Angiogenesis. Blood, 2016, 128, 4533-4533.	0.6	0
117	Regulating Proteasome Activity. Biomolecules, 2022, 12, 343.	1.8	0
118	Abstract 2000: Cancer metastasis driven by the novel MEK1 substrate MACC1 is restricted by clinically applicable MEK1 inhibitors. , 2019, , .		0