

Thomas Fröhlich

List of Publications by Year in descending order

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117
papers

4,996
citations

109321

35
h-index

106344

65
g-index

125
all docs

125
docs citations

125
times ranked

8765
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ecoresponsive Genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011, 331, 555-561.	12.6	1,086
2	Structural basis for translational shutdown and immune evasion by the Nsp1 protein of SARS-CoV-2. <i>Science</i> , 2020, 369, 1249-1255.	12.6	635
3	Somatic gene editing ameliorates skeletal and cardiac muscle failure in pig and human models of Duchenne muscular dystrophy. <i>Nature Medicine</i> , 2020, 26, 207-214.	30.7	169
4	Embryo-Maternal Communication in Bovine - Strategies for Deciphering a Complex Cross-Talk. <i>Reproduction in Domestic Animals</i> , 2003, 38, 276-289.	1.4	133
5	Detection of collagens by multispectral optoacoustic tomography as an imaging biomarker for Duchenne muscular dystrophy. <i>Nature Medicine</i> , 2019, 25, 1905-1915.	30.7	129
6	Dual specificities of the glyoxysomal/peroxisomal processing protease Deg15 in higher plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11501-11506.	7.1	84
7	Shape, size, and polymer dependent effects of microplastics on <i>Daphnia magna</i> . <i>Journal of Hazardous Materials</i> , 2022, 426, 128136.	12.4	68
8	Assessing quantitative post-mortem changes in the gray matter of the human frontal cortex proteome by DIGE. <i>Proteomics</i> , 2008, 8, 1276-1291.	2.2	64
9	Identification of novel downstream targets of platelet glycoprotein VI activation by differential proteome analysis: implications for thrombus formation. <i>Blood</i> , 2010, 115, 4102-4110.	1.4	60
10	First inducible transgene expression in porcine large animal models. <i>FASEB Journal</i> , 2012, 26, 1086-1099.	0.5	60
11	Progressive muscle proteome changes in a clinically relevant pig model of Duchenne muscular dystrophy. <i>Scientific Reports</i> , 2016, 6, 33362.	3.3	60
12	Invasion of Tumorigenic HT1080 Cells Is Impeded by Blocking or Downregulating the 37-kDa/67-kDa Laminin Receptor. <i>Journal of Molecular Biology</i> , 2008, 378, 530-539.	4.2	59
13	Promiscuous behaviour of archaeal ribosomal proteins: Implications for eukaryotic ribosome evolution. <i>Nucleic Acids Research</i> , 2013, 41, 1284-1293.	14.5	59
14	V-ATPase inhibition by archazolid leads to lysosomal dysfunction resulting in impaired cathepsin B activation <i>in vivo</i> . <i>International Journal of Cancer</i> , 2014, 134, 2478-2488.	5.1	58
15	ROS-Mediated Inhibition of S-nitrosoglutathione Reductase Contributes to the Activation of Anti-oxidative Mechanisms. <i>Frontiers in Plant Science</i> , 2016, 7, 1669.	3.6	56
16	Bovine endometrial metallopeptidases MMP14 and MMP2 and the metallopeptidase inhibitor TIMP2 participate in maternal preparation of pregnancy. <i>Molecular and Cellular Endocrinology</i> , 2011, 332, 48-57.	3.2	55
17	Characterization of carp seminal plasma proteome in relation to blood plasma. <i>Journal of Proteomics</i> , 2014, 98, 218-232.	2.4	55
18	Single chain Fv antibodies directed against the 37 kDa/67 kDa laminin receptor as therapeutic tools in prion diseases. <i>Molecular Immunology</i> , 2008, 45, 144-151.	2.2	54

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19	Long-term exposure of <i>Daphnia magna</i> to polystyrene microplastic (PS-MP) leads to alterations of the proteome, morphology and life-history. <i>Science of the Total Environment</i> , 2021, 795, 148822.	8.0	53
20	Protein Stoichiometry of a Multiprotein Complex, the Human Spliceosomal U1 Small Nuclear Ribonucleoprotein. <i>Journal of Biological Chemistry</i> , 2005, 280, 2536-2542.	3.4	52
21	Postovulatory aging affects dynamics of mRNA, expression and localization of maternal effect proteins, spindle integrity and pericentromeric proteins in mouse oocytes. <i>Human Reproduction</i> , 2016, 31, 133-149.	0.9	52
22	Proteomic analysis of <i>Daphnia magna</i> hints at molecular pathways involved in defensive plastic responses. <i>BMC Genomics</i> , 2014, 15, 306.	2.8	50
23	Stage-Specific Proteome Signatures in Early Bovine Embryo Development. <i>Journal of Proteome Research</i> , 2014, 13, 4363-4376.	3.7	50
24	DRO1, a Gene Down-regulated by Oncogenes, Mediates Growth Inhibition in Colon and Pancreatic Cancer Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 7962-7975.	3.4	49
25	Readthrough acetylcholinesterase (AChE-R) and regulated necrosis: pharmacological targets for the regulation of ovarian functions?. <i>Cell Death and Disease</i> , 2015, 6, e1685-e1685.	6.3	48
26	HUPO Brain Proteome Project: Summary of the pilot phase and introduction of a comprehensive data reprocessing strategy. <i>Proteomics</i> , 2006, 6, 4890-4898.	2.2	47
27	Secretome Analysis of Testicular Peritubular Cells: A Window into the Human Testicular Microenvironment and the Spermatogonial Stem Cell Niche in Man. <i>Journal of Proteome Research</i> , 2014, 13, 1259-1269.	3.7	47
28	Evidence for Estrogen-Dependent Uterine Serpin (SERPINA14) Expression During Estrus in the Bovine Endometrial Glandular Epithelium and Lumen1. <i>Biology of Reproduction</i> , 2009, 81, 795-805.	2.7	46
29	Cyclin-dependent kinase 5 stabilizes hypoxia-inducible factor-1 α : a novel approach for inhibiting angiogenesis in hepatocellular carcinoma. <i>Oncotarget</i> , 2016, 7, 27108-27121.	1.8	45
30	LC-MS/MS-based proteome profiling in <i>Daphnia pulex</i> and <i>Daphnia longicephala</i> : the <i>Daphnia pulex</i> genome database as a key for high throughput proteomics in <i>Daphnia</i> . <i>BMC Genomics</i> , 2009, 10, 171.	2.8	43
31	Cryopreservation-induced alterations in protein composition of rainbow trout semen. <i>Proteomics</i> , 2015, 15, 2643-2654.	2.2	42
32	Mitochondrial Dysregulation Secondary to Endoplasmic Reticulum Stress in Autosomal Dominant Tubulointerstitial Kidney Disease " UMOD (ADTKD-UMOD). <i>Scientific Reports</i> , 2017, 7, 42970.	3.3	39
33	The Munich MIDY Pig Biobank " A unique resource for studying organ crosstalk in diabetes. <i>Molecular Metabolism</i> , 2017, 6, 931-940.	6.5	39
34	Inhibition of Cyclin-Dependent Kinase 5: A Strategy to Improve Sorafenib Response in Hepatocellular Carcinoma Therapy. <i>Hepatology</i> , 2019, 69, 376-393.	7.3	38
35	Growth hormone receptor knockout to reduce the size of donor pigs for preclinical xenotransplantation studies. <i>Xenotransplantation</i> , 2021, 28, e12664.	2.8	38
36	Holistic differential analysis of embryo-induced alterations in the proteome of bovine endometrium in the preattachment period. <i>Proteomics</i> , 2005, 5, 2551-2560.	2.2	37

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37	Vitrification at the pre-antral stage transiently alters inner mitochondrial membrane potential but proteome of in vitro grown and matured mouse oocytes appears unaffected. Human Reproduction, 2012, 27, 1096-1111.	0.9	37
38	Proteomic identification of rainbow trout seminal plasma proteins. Proteomics, 2014, 14, 133-140.	2.2	36
39	Peptide- and polymer-based delivery of therapeutic RNA. Soft Matter, 2010, 6, 226-234.	2.7	34
40	Insights into replicative senescence of human testicular peritubular cells. Scientific Reports, 2019, 9, 15052.	3.3	33
41	2D DIGE analysis of the bursa of Fabricius reveals characteristic proteome profiles for different stages of chicken B cell development. Proteomics, 2013, 13, 119-133.	2.2	32
42	Human Tryptase Cleaves Pro-Nerve Growth Factor (Pro-NGF). Journal of Biological Chemistry, 2011, 286, 31707-31713.	3.4	31
43	Highly sensitive saturation labeling reveals changes in abundance of cell cycle-associated proteins and redox enzyme variants during oocyte maturation <i>in vitro</i> . Proteomics, 2009, 9, 550-564.	2.2	30
44	Improved cryotolerance and developmental potential of <i>in vitro</i> and <i>in vivo</i> matured mouse oocytes by supplementing with a glutathione donor prior to vitrification. Molecular Human Reproduction, 2016, 22, 867-881.	2.8	29
45	Proteomic Characterization of Archaeal Ribosomes Reveals the Presence of Novel Archaeal-Specific Ribosomal Proteins. Journal of Molecular Biology, 2011, 405, 1215-1232.	4.2	28
46	Proteomic identification of rainbow trout sperm proteins. Proteomics, 2014, 14, 1569-1573.	2.2	28
47	Characterization of the sebocyte lipid droplet proteome reveals novel potential regulators of sebaceous lipogenesis. Experimental Cell Research, 2015, 332, 146-155.	2.6	28
48	CD36-triggered cell invasion and persistent tissue colonization by tumor microvesicles during metastasis. FASEB Journal, 2019, 33, 1860-1872.	0.5	28
49	ATP-mediated Events in Peritubular Cells Contribute to Sterile Testicular Inflammation. Scientific Reports, 2018, 8, 1431.	3.3	27
50	Multi-omics insights into functional alterations of the liver in insulin-deficient diabetes mellitus. Molecular Metabolism, 2019, 26, 30-44.	6.5	26
51	Analysis of the HUPO Brain Proteome reference samples using 2-D DIGE and 2-D LC-MS/MS. Proteomics, 2006, 6, 4950-4966.	2.2	24
52	ADNP Is a Therapeutically Inducible Repressor of WNT Signaling in Colorectal Cancer. Clinical Cancer Research, 2017, 23, 2769-2780.	7.0	24
53	Novel sampling procedure to characterize bovine subclinical endometritis by uterine secretions and tissue. Theriogenology, 2020, 141, 186-196.	2.1	23
54	Functional changes of the liver in the absence of growth hormone (GH) action – Proteomic and metabolomic insights from a GH receptor deficient pig model. Molecular Metabolism, 2020, 36, 100978.	6.5	23

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55	Proteomic identification of turkey (<i>Meleagris gallopavo</i>) seminal plasma proteins ., Poultry Science, 2017, 96, 3422-3435.	3.4	22
56	Stabilization of polyplexes via polymer crosslinking for efficient siRNA delivery. European Journal of Pharmaceutical Sciences, 2012, 47, 914-920.	4.0	21
57	Shotgun proteomics of rainbow trout ovarian fluid. Reproduction, Fertility and Development, 2015, 27, 504.	0.4	21
58	Interclonal proteomic responses to predator exposure in <i>Daphnia magna</i> may depend on predator composition of habitats. Molecular Ecology, 2015, 24, 3901-3917.	3.9	21
59	A scalable, clinically severe pig model for Duchenne muscular dystrophy. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	20
60	The brain proteome profile is highly conserved between Prnp Δ/Δ and Prnp +/+ mice. NeuroReport, 2008, 19, 1027-1031.	1.2	19
61	Proteomic analysis of extracellular medium of cryopreserved carp (<i>Cyprinus carpio</i> L.) semen. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2015, 15, 49-57.	1.0	19
62	Insights into the role of androgen receptor in human testicular peritubular cells. Andrology, 2018, 6, 756-765.	3.5	19
63	2D DIGE Saturation Labeling for Minute Sample Amounts. Methods in Molecular Biology, 2012, 854, 89-112.	0.9	18
64	Human testicular peritubular cells secrete pigment epithelium-derived factor (PEDF), which may be responsible for the avascularity of the seminiferous tubules. Scientific Reports, 2015, 5, 12820.	3.3	18
65	Progressive Proteome Changes in the Myocardium of a Pig Model for Duchenne Muscular Dystrophy. IScience, 2020, 23, 101516.	4.1	18
66	Isolation and Characterization of Equine Uterine Extracellular Vesicles: A Comparative Methodological Study. International Journal of Molecular Sciences, 2021, 22, 979.	4.1	18
67	Detection of wild type and deleted latent membrane protein 1 (LMP1) of Epstein-Barr virus in clinical biopsy material. Journal of Virological Methods, 2004, 116, 79-88.	2.1	17
68	Proteome analysis of early lineage specification in bovine embryos. Proteomics, 2015, 15, 688-701.	2.2	17
69	Anti α -enolase antibody is a novel autoimmune biomarker for unexplained recurrent miscarriages. EBioMedicine, 2019, 41, 610-622.	6.1	17
70	Necroptosis in primate luteolysis: a role for ceramide. Cell Death Discovery, 2019, 5, 67.	4.7	17
71	Proteomic identification of rainbow trout blood plasma proteins and their relationship to seminal plasma proteins. Proteomics, 2017, 17, 1600460.	2.2	16
72	Tolerance of Stored Boar Spermatozoa to Autologous Seminal Plasma: A Proteomic and Lipidomic Approach. International Journal of Molecular Sciences, 2020, 21, 6474.	4.1	16

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73	Modelling aspects of oviduct fluid formation in vitro. <i>Reproduction</i> , 2017, 153, 23-33.	2.6	15
74	Uterine fluid proteome changes during diapause and resumption of embryo development in roe deer (<i>Capreolus capreolus</i>). <i>Reproduction</i> , 2019, 158, 13-24.	2.6	15
75	The influence of simulated microgravity on the proteome of <i>Daphnia magna</i> . <i>Npj Microgravity</i> , 2015, 1, 15016.	3.7	14
76	In-depth characterization revealed polymer type and chemical content specific effects of microplastic on <i>Dreissena bugensis</i> . <i>Journal of Hazardous Materials</i> , 2022, 437, 129351.	12.4	14
77	Downregulation of GRK5 hampers the migration of breast cancer cells. <i>Scientific Reports</i> , 2019, 9, 15548.	3.3	13
78	A novel approach to study the bovine oviductal fluid proteome using transvaginal endoscopy. <i>Theriogenology</i> , 2019, 132, 53-61.	2.1	13
79	Metabolic implication of tigecycline as an efficacious secondâ€line treatment for sorafenibâ€resistant hepatocellular carcinoma. <i>FASEB Journal</i> , 2020, 34, 11860-11882.	0.5	13
80	The impact of transcription inhibition during in vitro maturation on the proteome of bovine oocytesâ€. <i>Biology of Reproduction</i> , 2020, 103, 1000-1011.	2.7	13
81	Characterization of a non-human primate model for the study of testicular peritubular cellsâ€”comparison with human testicular peritubular cells. <i>Molecular Human Reproduction</i> , 2018, 24, 401-410.	2.8	11
82	Influence of metabolic status and genetic merit for fertility on proteomic composition of bovine oviduct fluidâ€. <i>Biology of Reproduction</i> , 2019, 101, 893-905.	2.7	11
83	Lysosomal TRPML1 regulates mitochondrial function in hepatocellular carcinoma cells. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	11
84	Differential glomerular proteome analysis of two murine nephropathy models at onset of albuminuria. <i>Proteomics - Clinical Applications</i> , 2011, 5, 375-381.	1.6	10
85	iTRAQ proteome analysis reflects a progressed differentiation state of epiblast derived versus inner cell mass derived murine embryonic stem cells. <i>Journal of Proteomics</i> , 2013, 90, 38-51.	2.4	10
86	LC-MS/MS analysis reveals a broad functional spectrum of proteins in the secretome of sebocytes. <i>Experimental Dermatology</i> , 2016, 25, 66-67.	2.9	10
87	The transmembrane protein LRIG2 increases tumor progression in skin carcinogenesis. <i>Molecular Oncology</i> , 2019, 13, 2476-2492.	4.6	10
88	Genetic merit for fertility alters the bovine uterine luminal fluid proteomeâ€. <i>Biology of Reproduction</i> , 2020, 102, 730-739.	2.7	10
89	A decade of experience with genetically tailored pig models for diabetes and metabolic research. <i>Animal Reproduction</i> , 2020, 17, e20200064.	1.0	10
90	Pig models for Duchenne muscular dystrophy â€” from disease mechanisms to validation of new diagnostic and therapeutic concepts. <i>Neuromuscular Disorders</i> , 2022, 32, 543-556.	0.6	10

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91	In-depth proteomic analysis of carp (<i>Cyprinus carpio</i> L) spermatozoa. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2014, 12, 10-15.	1.0	8
92	Filamin A Orchestrates Cytoskeletal Structure, Cell Migration and Stem Cell Characteristics in Human Seminoma TCam-2 Cells. <i>Cells</i> , 2020, 9, 2563.	4.1	8
93	A Newcomer's Guide to Nano-Liquid-Chromatography of Peptides. <i>Methods in Molecular Biology</i> , 2009, 564, 123-141.	0.9	8
94	Antibodies against the mono-methylated arginine-glycine repeat (MMA-RG) of the Epstein-Barr virus nuclear antigen 2 (EBNA2) identify potential cellular proteins targeted in viral transformation. <i>Journal of General Virology</i> , 2017, 98, 2128-2142.	2.9	8
95	Differential Effects of Insulin-Deficient Diabetes Mellitus on Visceral vs. Subcutaneous Adipose Tissue—Multi-omics Insights From the Munich MIDY Pig Model. <i>Frontiers in Medicine</i> , 2021, 8, 751277.	2.6	8
96	Developmental Effects of (Pre-)Gestational Diabetes on Offspring: Systematic Screening Using Omics Approaches. <i>Genes</i> , 2021, 12, 1991.	2.4	8
97	Quantifying Attomole Amounts of Proteins from Complex Samples by Nano-LC and Selected Reaction Monitoring. <i>Methods in Molecular Biology</i> , 2011, 790, 141-164.	0.9	7
98	A proteomic analysis of an in vitro knock-out of miR-200c. <i>Scientific Reports</i> , 2018, 8, 6927.	3.3	7
99	A proteomic analysis of chemoresistance development via sequential treatment with doxorubicin reveals novel players in MCF7 breast cancer cells. <i>International Journal of Molecular Medicine</i> , 2018, 42, 1987-1997.	4.0	7
100	Proteomic Insights into Senescence of Testicular Peritubular Cells from a Nonhuman Primate Model. <i>Cells</i> , 2020, 9, 2498.	4.1	7
101	Age-Related Alterations in the Testicular Proteome of a Non-Human Primate. <i>Cells</i> , 2021, 10, 1306.	4.1	7
102	The secretome of skin cancer cells activates the mTOR/MYC pathway in healthy keratinocytes and induces tumorigenic properties. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118717.	4.1	6
103	A translational cellular model for the study of peritubular cells of the testis. <i>Reproduction</i> , 2020, 160, 259-268.	2.6	6
104	Trafficking of siRNA precursors by the dsRBD protein Blanks in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2020, 48, 3906-3921.	14.5	5
105	Carrier Mobility in Semiconductors at Very Low Temperatures. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	5
106	Neurodevelopment vs. the immune system: Complementary contributions of maternally-inherited gene transcripts and proteins to successful embryonic development in fish. <i>Genomics</i> , 2021, 113, 3811-3826.	2.9	4
107	Improving the proteome coverage of <i>Daphnia magna</i> – implications for future ecotoxicoproteomics studies. <i>Proteomics</i> , 2022, 22, e2100289.	2.2	4
108	Proteomic analysis in the model organism <i>Daphnia</i> has the potential to unravel molecular pathways involved in phenotypic changes in response to changing environmental conditions. <i>Hydrobiologia</i> , 2019, 846, 27-38.	2.0	3

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109	The transmembrane protein LRIG1 triggers melanocytic tumor development following chemically induced skin carcinogenesis. <i>Molecular Oncology</i> , 2021, 15, 2140-2155.	4.6	3
110	Betacellulin transgenic mice develop urothelial hyperplasia and show sex-dependent reduction in urinary major urinary protein content. <i>Experimental and Molecular Pathology</i> , 2015, 99, 33-38.	2.1	2
111	ADNP is a repressor of WNT signaling in colon cancer that can be therapeutically induced. <i>European Journal of Cancer</i> , 2016, 61, S172.	2.8	2
112	Rltpr Is a Central Scaffold Protein Regulating Human TCR Co-Signaling and Cytoskeletal Dynamics. <i>Blood</i> , 2016, 128, 131-131.	1.4	1
113	Proteomics of bovine endometrium, oocytes and early embryos. <i>Bioscientifica Proceedings</i> , 0, , .	1.0	1
114	TOO30ALTERATIONS OF THE BASAL LABYRINTH IN CELLS OF THE THICK ASCENDING LIMB OF HENLE'S LOOP IN ADTKD-UMOD. <i>Nephrology Dialysis Transplantation</i> , 2017, 32, iii92-iii92.	0.7	0
115	119 QUANTITATIVE PROTEOME ANALYSIS OF ENDOMETRIUM FROM PREGNANT AND NONPREGNANT PIGS. <i>Reproduction, Fertility and Development</i> , 2013, 25, 206.	0.4	0
116	83 STAGE-SPECIFIC PROTEOME SIGNATURES IN EARLY BOVINE EMBRYO DEVELOPMENT. <i>Reproduction, Fertility and Development</i> , 2015, 27, 134.	0.4	0
117	Valosin-containing protein-regulated endoplasmic reticulum stress causes NOD2-dependent inflammatory responses. <i>Scientific Reports</i> , 2022, 12, 3906.	3.3	0