

Thomas Fröhlich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4650136/publications.pdf>

Version: 2024-02-01

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	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
2	Improving the proteome coverage of <i>Daphnia magna</i> – implications for future ecotoxicoproteomics studies. <i>Proteomics</i> , 2022, 22, e2100289.	2.2	4
3	Valosin-containing protein-regulated endoplasmic reticulum stress causes NOD2-dependent inflammatory responses. <i>Scientific Reports</i> , 2022, 12, 3906.	3.3	0
4	Lysosomal TRPML1 regulates mitochondrial function in hepatocellular carcinoma cells. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	11
5	Pig models for Duchenne muscular dystrophy – from disease mechanisms to validation of new diagnostic and therapeutic concepts. <i>Neuromuscular Disorders</i> , 2022, 32, 543-556.	0.6	10
6	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
7	Growth hormone receptor knockout to reduce the size of donor pigs for preclinical xenotransplantation studies. <i>Xenotransplantation</i> , 2021, 28, e12664.	2.8	38
8	Isolation and Characterization of Equine Uterine Extracellular Vesicles: A Comparative Methodological Study. <i>International Journal of Molecular Sciences</i> , 2021, 22, 979.	4.1	18
9	The transmembrane protein LRIG1 triggers melanocytic tumor development following chemically induced skin carcinogenesis. <i>Molecular Oncology</i> , 2021, 15, 2140-2155.	4.6	3
10	Age-Related Alterations in the Testicular Proteome of a Non-Human Primate. <i>Cells</i> , 2021, 10, 1306.	4.1	7
11	Carrier Mobility in Semiconductors at Very Low Temperatures. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	5
12	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
13	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
14	A scalable, clinically severe pig model for Duchenne muscular dystrophy. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	20
15	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
16	Developmental Effects of (Pre-)Gestational Diabetes on Offspring: Systematic Screening Using Omics Approaches. <i>Genes</i> , 2021, 12, 1991.	2.4	8
17	Novel sampling procedure to characterize bovine subclinical endometritis by uterine secretions and tissue. <i>Theriogenology</i> , 2020, 141, 186-196.	2.1	23
18	Genetic merit for fertility alters the bovine uterine luminal fluid proteome. <i>Biology of Reproduction</i> , 2020, 102, 730-739.	2.7	10

#	ARTICLE	IF	CITATIONS
19	Progressive Proteome Changes in the Myocardium of a Pig Model for Duchenne Muscular Dystrophy. <i>IScience</i> , 2020, 23, 101516.	4.1	18
20	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
21	Proteomic Insights into Senescence of Testicular Peritubular Cells from a Nonhuman Primate Model. <i>Cells</i> , 2020, 9, 2498.	4.1	7
22	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
23	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
24	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
25	Tolerance of Stored Boar Spermatozoa to Autologous Seminal Plasma: A Proteomic and Lipidomic Approach. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6474.	4.1	16
26	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
27	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
28	Functional changes of the liver in the absence of growth hormone (GH) action â€“ Proteomic and metabolomic insights from a GH receptor deficient pig model. <i>Molecular Metabolism</i> , 2020, 36, 100978.	6.5	23
29	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
30	A translational cellular model for the study of peritubular cells of the testis. <i>Reproduction</i> , 2020, 160, 259-268.	2.6	6
31	A decade of experience with genetically tailored pig models for diabetes and metabolic research. <i>Animal Reproduction</i> , 2020, 17, e20200064.	1.0	10
32	Inhibition of Cyclinâ€Dependent Kinase 5: A Strategy to Improve Sorafenib Response in Hepatocellular Carcinoma Therapy. <i>Hepatology</i> , 2019, 69, 376-393.	7.3	38
33	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
34	Downregulation of GRK5 hampers the migration of breast cancer cells. <i>Scientific Reports</i> , 2019, 9, 15548.	3.3	13
35	The transmembrane protein LRIG2 increases tumor progression in skin carcinogenesis. <i>Molecular Oncology</i> , 2019, 13, 2476-2492.	4.6	10
36	Insights into replicative senescence of human testicular peritubular cells. <i>Scientific Reports</i> , 2019, 9, 15052.	3.3	33

#	ARTICLE	IF	CITATIONS
37	Multi-omics insights into functional alterations of the liver in insulin-deficient diabetes mellitus. <i>Molecular Metabolism</i> , 2019, 26, 30-44.	6.5	26
38	Anti α -enolase antibody is a novel autoimmune biomarker for unexplained recurrent miscarriages. <i>EBioMedicine</i> , 2019, 41, 610-622.	6.1	17
39	A novel approach to study the bovine oviductal fluid proteome using transvaginal endoscopy. <i>Theriogenology</i> , 2019, 132, 53-61.	2.1	13
40	Necroptosis in primate luteolysis: a role for ceramide. <i>Cell Death Discovery</i> , 2019, 5, 67.	4.7	17
41	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
42	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
43	CD36-triggered cell invasion and persistent tissue colonization by tumor microvesicles during metastasis. <i>FASEB Journal</i> , 2019, 33, 1860-1872.	0.5	28
44	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
45	ATP-mediated Events in Peritubular Cells Contribute to Sterile Testicular Inflammation. <i>Scientific Reports</i> , 2018, 8, 1431.	3.3	27
46	A proteomic analysis of an in vitro knock-out of miR-200c. <i>Scientific Reports</i> , 2018, 8, 6927.	3.3	7
47	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
48	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
49	Insights into the role of androgen receptor in human testicular peritubular cells. <i>Andrology</i> , 2018, 6, 756-765.	3.5	19
50	Mitochondrial Dysregulation Secondary to Endoplasmic Reticulum Stress in Autosomal Dominant Tubulointerstitial Kidney Disease â UMOD (ADTKD-UMOD). <i>Scientific Reports</i> , 2017, 7, 42970.	3.3	39
51	Proteomic identification of rainbow trout blood plasma proteins and their relationship to seminal plasma proteins. <i>Proteomics</i> , 2017, 17, 1600460.	2.2	16
52	ADNP Is a Therapeutically Inducible Repressor of WNT Signaling in Colorectal Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 2769-2780.	7.0	24
53	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
54	Proteomic identification of turkey (<i>Meleagris gallopavo</i>) seminal plasma proteins. <i>Poultry Science</i> , 2017, 96, 3422-3435.	3.4	22

#	ARTICLE	IF	CITATIONS
55	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
56	Modelling aspects of oviduct fluid formation in vitro. <i>Reproduction</i> , 2017, 153, 23-33.	2.6	15
57	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
58	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
59	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. <i>Molecular Human Reproduction</i> , 2016, 22, 867-881.	2.8	29
60	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
61	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
62	Progressive muscle proteome changes in a clinically relevant pig model of Duchenne muscular dystrophy. <i>Scientific Reports</i> , 2016, 6, 33362.	3.3	60
63	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
64	Rltpr Is a Central Scaffold Protein Regulating Human TCR Co-Signaling and Cytoskeletal Dynamics. <i>Blood</i> , 2016, 128, 131-131.	1.4	1
65	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
66	Human testicular peritubular cells secrete pigment epithelium-derived factor (PEDF), which may be responsible for the avascularity of the seminiferous tubules. <i>Scientific Reports</i> , 2015, 5, 12820.	3.3	18
67	The influence of simulated microgravity on the proteome of <i>Daphnia magna</i> . <i>Npj Microgravity</i> , 2015, 1, 15016.	3.7	14
68	Shotgun proteomics of rainbow trout ovarian fluid. <i>Reproduction, Fertility and Development</i> , 2015, 27, 504.	0.4	21
69	Interclonal proteomic responses to predator exposure in <i>Daphnia magna</i> may depend on predator composition of habitats. <i>Molecular Ecology</i> , 2015, 24, 3901-3917.	3.9	21
70	Cryopreservation-induced alterations in protein composition of rainbow trout semen. <i>Proteomics</i> , 2015, 15, 2643-2654.	2.2	42
71	Proteomic analysis of extracellular medium of cryopreserved carp (<i>Cyprinus carpio</i> L.) semen. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2015, 15, 49-57.	1.0	19
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Characterization of the sebocyte lipid droplet proteome reveals novel potential regulators of sebaceous lipogenesis. <i>Experimental Cell Research</i> , 2015, 332, 146-155.	2.6	28
75	Proteome analysis of early lineage specification in bovine embryos. <i>Proteomics</i> , 2015, 15, 688-701.	2.2	17
76	83 STAGE-SPECIFIC PROTEOME SIGNATURES IN EARLY BOVINE EMBRYO DEVELOPMENT. <i>Reproduction, Fertility and Development</i> , 2015, 27, 134.	0.4	0
77	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
78	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
79	Characterization of carp seminal plasma proteome in relation to blood plasma. <i>Journal of Proteomics</i> , 2014, 98, 218-232.	2.4	55
80	Proteomic identification of rainbow trout seminal plasma proteins. <i>Proteomics</i> , 2014, 14, 133-140.	2.2	36
81	Proteomic identification of rainbow trout sperm proteins. <i>Proteomics</i> , 2014, 14, 1569-1573.	2.2	28
82	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
83	Stage-Specific Proteome Signatures in Early Bovine Embryo Development. <i>Journal of Proteome Research</i> , 2014, 13, 4363-4376.	3.7	50
84	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
85	2D DIGE analysis of the bursa of Fabricius reveals characteristic proteome profiles for different stages of chicken B cell development. <i>Proteomics</i> , 2013, 13, 119-133.	2.2	32
86	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
87	Promiscuous behaviour of archaeal ribosomal proteins: Implications for eukaryotic ribosome evolution. <i>Nucleic Acids Research</i> , 2013, 41, 1284-1293.	14.5	59
88	119 QUANTITATIVE PROTEOME ANALYSIS OF ENDOMETRIUM FROM PREGNANT AND NONPREGNANT PIGS. <i>Reproduction, Fertility and Development</i> , 2013, 25, 206.	0.4	0
89	Vitrification at the pre-antral stage transiently alters inner mitochondrial membrane potential but proteome of in vitro grown and matured mouse oocytes appears unaffected. <i>Human Reproduction</i> , 2012, 27, 1096-1111.	0.9	37
90	Stabilization of polyplexes via polymer crosslinking for efficient siRNA delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 47, 914-920.	4.0	21

#	ARTICLE	IF	CITATIONS
91	First inducible transgene expression in porcine large animal models. <i>FASEB Journal</i> , 2012, 26, 1086-1099.	0.5	60
92	2D DIGE Saturation Labeling for Minute Sample Amounts. <i>Methods in Molecular Biology</i> , 2012, 854, 89-112.	0.9	18
93	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
94	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
95	Proteomic Characterization of Archaeal Ribosomes Reveals the Presence of Novel Archaeal-Specific Ribosomal Proteins. <i>Journal of Molecular Biology</i> , 2011, 405, 1215-1232.	4.2	28
96	The Ecoresponsive Genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011, 331, 555-561.	12.6	1,086
97	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
98	Human Tryptase Cleaves Pro-Nerve Growth Factor (Pro-NGF). <i>Journal of Biological Chemistry</i> , 2011, 286, 31707-31713.	3.4	31
99	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
100	Peptide- and polymer-based delivery of therapeutic RNA. <i>Soft Matter</i> , 2010, 6, 226-234.	2.7	34
101	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
102	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
103	Highly sensitive saturation labeling reveals changes in abundance of cell cycle-associated proteins and redox enzyme variants during oocyte maturation <i>in vitro</i> . <i>Proteomics</i> , 2009, 9, 550-564.	2.2	30
104	A Newcomer's Guide to Nano-Liquid-Chromatography of Peptides. <i>Methods in Molecular Biology</i> , 2009, 564, 123-141.	0.9	8
105	Assessing quantitative post-mortem changes in the gray matter of the human frontal cortex proteome by 2D DIGE. <i>Proteomics</i> , 2008, 8, 1276-1291.	2.2	64
106	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
107	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
108	The brain proteome profile is highly conserved between Prnp ^{0/0} and Prnp ^{+/+} mice. <i>NeuroReport</i> , 2008, 19, 1027-1031.	1.2	19

#	ARTICLE	IF	CITATIONS
109	Dual specificities of the glyoxysomal/peroxisomal processing protease Deg15 in higher plants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11501-11506.	7.1	84
110	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
111	HUPO Brain Proteome Project: Summary of the pilot phase and introduction of a comprehensive data reprocessing strategy. Proteomics, 2006, 6, 4890-4898.	2.2	47
112	Holistic differential analysis of embryo-induced alterations in the proteome of bovine endometrium in the preattachment period. Proteomics, 2005, 5, 2551-2560.	2.2	37
113	DRO1, a Gene Down-regulated by Oncogenes, Mediates Growth Inhibition in Colon and Pancreatic Cancer Cells. Journal of Biological Chemistry, 2005, 280, 7962-7975.	3.4	49
114	Protein Stoichiometry of a Multiprotein Complex, the Human Spliceosomal U1 Small Nuclear Ribonucleoprotein. Journal of Biological Chemistry, 2005, 280, 2536-2542.	3.4	52
115	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
116	Embryo-Maternal Communication in Bovine - Strategies for Deciphering a Complex Cross-Talk. Reproduction in Domestic Animals, 2003, 38, 276-289.	1.4	133
117	Proteomics of bovine endometrium, oocytes and early embryos. Bioscientifica Proceedings, 0, , .	1.0	1