

Dietmar KÃ¼ltz

List of Publications by Year in descending order

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85
papers

6,742
citations

101543

36
h-index

62596

80
g-index

94
all docs

94
docs citations

94
times ranked

7961
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological mechanisms of stress-induced evolution. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	14
2	Prediction and Experimental Validation of a New Salinity-Responsive Cis-Regulatory Element (CRE) in a Tilapia Cell Line. <i>Life</i> , 2022, 12, 787.	2.4	0
3	Proteomic changes associated with predator-induced morphological defences in oysters. <i>Molecular Ecology</i> , 2022, 31, 4254-4270.	3.9	1
4	An efficient vector-based CRISPR/Cas9 system in an <i>Oreochromis mossambicus</i> cell line using endogenous promoters. <i>Scientific Reports</i> , 2021, 11, 7854.	3.3	12
5	A data-independent acquisition (DIA) assay library for quantitation of environmental effects on the kidney proteome of <i>Oreochromis niloticus</i> . <i>Molecular Ecology Resources</i> , 2021, 21, 2486-2503.	4.8	9
6	Nonlinear effects of environmental salinity on the gill transcriptome versus proteome of <i>Oreochromis niloticus</i> modulate epithelial cell turnover. <i>Genomics</i> , 2021, 113, 3235-3249.	2.9	11
7	Defining biological stress and stress responses based on principles of physics. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2020, 333, 350-358.	1.9	38
8	An osmolality/salinity-responsive enhancer 1 (OSRE1) in intron 1 promotes salinity induction of tilapia glutamine synthetase. <i>Scientific Reports</i> , 2020, 10, 12103.	3.3	9
9	Proteomics of Osmoregulatory Responses in Threespine Stickleback Gills. <i>Integrative and Comparative Biology</i> , 2020, 60, 304-317.	2.0	8
10	Introduction to the special issue: Comparative biology of cellular stress responses in animals. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2020, 333, 345-349.	1.9	10
11	The cellular stress response in fish exposed to salinity fluctuations. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2020, 333, 421-435.	1.9	91
12	Evolution of cellular stress response mechanisms. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2020, 333, 359-378.	1.9	63
13	Identification of key proteins involved in stickleback environmental adaptation with system-level analysis. <i>Physiological Genomics</i> , 2020, 52, 531-548.	2.3	2
14	Early-life exposure to the endocrine disruptor 17 β -ethinylestradiol induces delayed effects in adult brain, liver and ovotestis proteomes of a self-fertilizing fish. <i>Journal of Proteomics</i> , 2019, 194, 112-124.	2.4	18
15	Diversity of resistance mechanisms in carbapenem-resistant Enterobacteriaceae at a health care system in Northern California, from 2013 to 2016. <i>Diagnostic Microbiology and Infectious Disease</i> , 2019, 93, 250-257.	1.8	52
16	Development of a Gill Assay Library for Ecological Proteomics of Threespine Sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2146-2163.	3.8	22
17	Contrasting seasonal and aseasonal environments across stages of the annual cycle in the rufous-collared sparrow, <i>Zonotrichia capensis</i> : Differences in endocrine function, proteome and body condition. <i>Journal of Animal Ecology</i> , 2018, 87, 1364-1382.	2.8	4
18	Osmolality/salinity-responsive enhancers (OSREs) control induction of osmoprotective genes in euryhaline fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2729-E2738.	7.1	24

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19	Skeletal stiffening in an amphibious fish out of water is a response to increased body weight. <i>Journal of Experimental Biology</i> , 2017, 220, 3621-3631.	1.7	25
20	Tgm1-like transglutaminases in tilapia (<i>Oreochromis mossambicus</i>). <i>PLoS ONE</i> , 2017, 12, e0177016.	2.5	8
21	Population-specific renal proteomes of marine and freshwater three-spined sticklebacks. <i>Journal of Proteomics</i> , 2016, 135, 112-131.	2.4	14
22	Population-specific plasma proteomes of marine and freshwater three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Proteomics</i> , 2015, 15, 3980-3992.	2.2	15
23	Physiological mechanisms used by fish to cope with salinity stress. <i>Journal of Experimental Biology</i> , 2015, 218, 1907-1914.	1.7	265
24	Alterations in the proteome of the respiratory tract in response to single and multiple exposures to naphthalene. <i>Proteomics</i> , 2015, 15, 2655-2668.	2.2	6
25	Direct Ionic Regulation of the Activity of Myo-Inositol Biosynthesis Enzymes in Mozambique Tilapia. <i>PLoS ONE</i> , 2015, 10, e0123212.	2.5	12
26	Sublethal Effects of CuO Nanoparticles on Mozambique Tilapia (<i>Oreochromis mossambicus</i>) Are Modulated by Environmental Salinity. <i>PLoS ONE</i> , 2014, 9, e88723.	2.5	45
27	Derivation and Osmotolerance Characterization of Three Immortalized Tilapia (<i>Oreochromis</i>) Tj ETQq1 1 0.784314.rgBT / Overlock 10	2.5	40
28	The Physiological Responses of Green Sturgeon (<i>Acipenser medirostris</i>) to Potential Global Climate Change Stressors. <i>Physiological and Biochemical Zoology</i> , 2014, 87, 456-463.	1.5	9
29	Osmotic regulation and tissue localization of the <i>myo</i> -inositol biosynthesis pathway in tilapia (<i>Oreochromis mossambicus</i>) larvae. <i>Journal of Experimental Zoology</i> , 2014, 321, 457-466.	1.2	17
30	New Frontiers for Organismal Biology. <i>BioScience</i> , 2013, 63, 464-471.	4.9	30
31	Salinity-induced activation of the <i>myo</i> -inositol biosynthesis pathway in tilapia gill epithelium. <i>Journal of Experimental Biology</i> , 2013, 216, 4626-38.	1.7	28
32	Tilapia (<i>Oreochromis mossambicus</i>) brain cells respond to hyperosmotic challenge by inducing <i>myo</i> -inositol biosynthesis. <i>Journal of Experimental Biology</i> , 2013, 216, 4615-25.	1.7	29
33	Quantitative Molecular Phenotyping of Gill Remodeling in a Cichlid Fish Responding to Salinity Stress. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3962-3975.	3.8	58
34	Consumption of Lysozyme-Rich Milk Can Alter Microbial Fecal Populations. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6153-6160.	3.1	87
35	The Combinatorial Nature of Osmosensing in Fishes. <i>Physiology</i> , 2012, 27, 259-275.	3.1	78
36	Osmosensing. <i>Fish Physiology</i> , 2012, 32, 45-68.	0.8	12

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37	The proteomic response of sea squirts (genus <i>Ciona</i>) to acute heat stress: A global perspective on the thermal stability of proteins. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2011, 6, 322-334.	1.0	35
38	A novel GRAIL E3 ubiquitin ligase promotes environmental salinity tolerance in euryhaline tilapia. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 439-445.	2.4	14
39	The Ecoresponsive Genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011, 331, 555-561.	12.6	1,086
40	A proteomic analysis of green and white sturgeon larvae exposed to heat stress and selenium. <i>Science of the Total Environment</i> , 2010, 408, 3176-3188.	8.0	53
41	Rapid changes in plasma cortisol, osmolality, and respiration in response to salinity stress in tilapia (<i>Oreochromis mossambicus</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 157, 260-265.	1.8	84
42	Compensatory proteome adjustments imply tissue-specific structural and metabolic reorganization following episodic hypoxia or anoxia in the epaulette shark (<i>Hemiscyllium ocellatum</i>). <i>Physiological Genomics</i> , 2010, 42, 93-114.	2.3	42
43	A novel tilapia prolactin receptor is functionally distinct from its paralog. <i>Journal of Experimental Biology</i> , 2009, 212, 2007-2015.	1.7	53
44	Salinity stress results in rapid cell cycle changes of tilapia (<i>Oreochromis mossambicus</i>) gill epithelial cells. <i>Journal of Experimental Zoology</i> , 2009, 311A, 80-90.	1.2	20
45	Osmo- and ionoregulatory responses of green sturgeon (<i>Acipenser medirostris</i>) to salinity acclimation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 383-390.	1.5	54
46	Prolonged apoptosis in mitochondria-rich cells of tilapia (<i>Oreochromis mossambicus</i>) exposed to elevated salinity. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 535-542.	1.5	30
47	Mechanisms of seawater acclimation in a primitive, anadromous fish, the green sturgeon. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 903-920.	1.5	47
48	Morphology of the rectal gland of the spiny dogfish (<i>Squalus acanthias</i>) shark in response to feeding. <i>Canadian Journal of Zoology</i> , 2009, 87, 440-452.	1.0	12
49	Salinity-dependent changes in Na ⁺ /K ⁺ -ATPase content of mitochondria-rich cells contribute to differences in thermal tolerance of Mozambique tilapia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 249-256.	1.5	45
50	Natural feeding influences protein expression in the dogfish shark rectal gland: A proteomic analysis. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2008, 3, 118-127.	1.0	16
51	<i>In Vitro</i> Biologic Activities of the Antimicrobials Triclocarban, Its Analogs, and Triclosan in Bioassay Screens: Receptor-Based Bioassay Screens. <i>Environmental Health Perspectives</i> , 2008, 116, 1203-1210.	6.0	312
52	Functional genomics and proteomics of the cellular osmotic stress response in 'non-model' organisms. <i>Journal of Experimental Biology</i> , 2007, 210, 1593-1601.	1.7	78
53	Evaluation of Cytotoxicity Attributed to Thimerosal on Murine and Human Kidney Cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2007, 70, 2092-2095.	2.3	7
54	Specific TSC22 domain transcripts are hypertonically induced and alternatively spliced to protect mouse kidney cells during osmotic stress. <i>FEBS Journal</i> , 2007, 274, 109-124.	4.7	53

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55	Osmotic stress sensing and signaling in animals. FEBS Journal, 2007, 274, 5781-5781.	4.7	21
56	Osmotic stress sensing and signaling in fishes. FEBS Journal, 2007, 274, 5790-5798.	4.7	173
57	Proteomic identification of processes and pathways characteristic of osmoregulatory tissues in spiny dogfish shark (<i>Squalus acanthias</i>). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 328-343.	1.0	16
58	Identification and pathway analysis of immediate hyperosmotic stress responsive molecular mechanisms in tilapia (<i>Oreochromis mossambicus</i>) gill. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 344-356.	1.0	44
59	Constitutive and inducible stress proteins dominate the proteome of the murine inner medullary collecting duct-3 (mIMCD3) cell line. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1007-1020.	2.3	25
60	Regulation of osmotic stress transcription factor 1 (Ostf1) in tilapia (<i>Oreochromis mossambicus</i>) gill epithelium during salinity stress. Journal of Experimental Biology, 2006, 209, 3257-3265.	1.7	57
61	Ultrasound detection and characterization of polycystic kidney disease in a mouse model. Comparative Medicine, 2006, 56, 215-21.	1.0	5
62	MOLECULAR AND EVOLUTIONARY BASIS OF THE CELLULAR STRESS RESPONSE. Annual Review of Physiology, 2005, 67, 225-257.	13.1	1,247
63	DNA damage signals facilitate osmotic stress adaptation. American Journal of Physiology - Renal Physiology, 2005, 289, F504-F505.	2.7	29
64	Nek8 Mutation Causes Overexpression of Galectin-1, Sorcin, and Vimentin and Accumulation of the Major Urinary Protein in Renal Cysts of jck Mice. Molecular and Cellular Proteomics, 2005, 4, 1009-1018.	3.8	43
65	Rapid hyperosmotic coinduction of two tilapia (<i>Oreochromis mossambicus</i>) transcription factors in gill cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 927-932.	7.1	99
66	Laser scanning cytometry and tissue microarray analysis of salinity effects on killifish chloride cells. Journal of Experimental Biology, 2004, 207, 1729-1739.	1.7	16
67	Gadd45 Proteins Induce G2/M Arrest and Modulate Apoptosis in Kidney Cells Exposed to Hyperosmotic Stress. Journal of Biological Chemistry, 2004, 279, 39075-39084.	3.4	78
68	Hyperosmolality triggers oxidative damage in kidney cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9177-9178.	7.1	34
69	Hypertonicity and TonEBP promote development of the renal concentrating system. American Journal of Physiology - Renal Physiology, 2004, 287, F876-F877.	2.7	12
70	TeleostFh14-3-3a protein protects xenopus oocytes from hyperosmolality. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2003, 299A, 103-109.	1.3	13
71	Evolution of the cellular stress proteome: from monophyletic origin to ubiquitous function. Journal of Experimental Biology, 2003, 206, 3119-3124.	1.7	292
72	Three GADD45 isoforms contribute to hypertonic stress phenotype of murine renal inner medullary cells. American Journal of Physiology - Renal Physiology, 2002, 283, F1020-F1029.	2.7	25

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73	Mitogen-activated protein kinases are in vivo transducers of osmosensory signals in fish gill cells. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 129, 821-829.	1.6	103
74	Cellular osmoregulation: beyond ion transport and cell volume. <i>Zoology</i> , 2001, 104, 198-208.	1.2	29
75	Maintenance of genomic integrity in mammalian kidney cells exposed to hyperosmotic stress. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 130, 421-428.	1.8	41
76	Evolution of Osmosensory MAP Kinase Signaling Pathways. <i>American Zoologist</i> , 2001, 41, 743-757.	0.7	4
77	Protection of Renal Inner Medullary Epithelial Cells from Apoptosis by Hypertonic Stress-induced p53 Activation. <i>Journal of Biological Chemistry</i> , 2000, 275, 18243-18247.	3.4	99
78	Osmotic regulation of DNA activity and the cell cycle. <i>Cell and Molecular Response To Stress</i> , 2000, 1, 157-179.	0.4	14
79	Phylogenetic and Functional Classification of Mitogen- and Stress-Activated Protein Kinases. <i>Journal of Molecular Evolution</i> , 1998, 46, 571-588.	1.8	181
80	Hyperosmolality Causes Growth Arrest of Murine Kidney Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 13645-13651.	3.4	179
81	Distinct Regulation of Osmoprotective Genes in Yeast and Mammals. <i>Journal of Biological Chemistry</i> , 1997, 272, 13165-13170.	3.4	91
82	REGULATION OF GENE EXPRESSION BY HYPERTONICITY. <i>Annual Review of Physiology</i> , 1997, 59, 437-455.	13.1	355
83	Osmotic regulation of gene expression. <i>FASEB Journal</i> , 1996, 10, 1598-1606.	0.5	158
84	Mitochondria-rich (MR) cells and the activities of the and carbonic anhydrase in the gill and opercular epithelium of <i>Oreochromis mossambicus</i> adapted to various salinities. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 102, 293-301.	0.2	45
85	Proteomic Analysis of the Renal Inner Medulla and Collecting Ducts., 0, , 39-51.		0