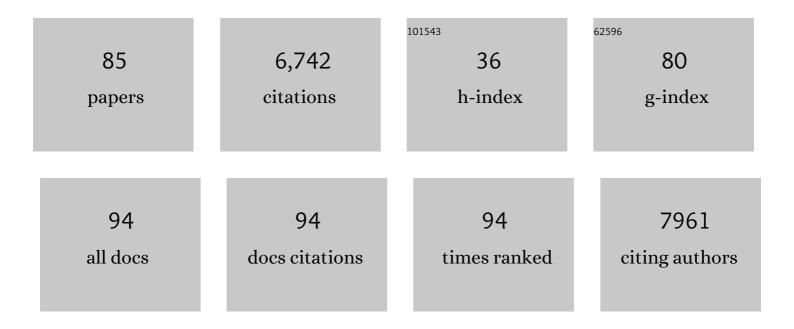
Dietmar Kültz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | MOLECULAR AND EVOLUTIONARY BASIS OF THE CELLULAR STRESS RESPONSE. Annual Review of Physiology, 2005, 67, 225-257. | 13.1 | 1,247 |
| 2 | The Ecoresponsive Genome of <i>Daphnia pulex</i> . Science, 2011, 331, 555-561. | 12.6 | 1,086 |
| 3 | REGULATION OF GENE EXPRESSION BY HYPERTONICITY. Annual Review of Physiology, 1997, 59, 437-455. | 13.1 | 355 |
| 4 | <i>In Vitro</i> Biologic Activities of the Antimicrobials Triclocarban, Its Analogs, and Triclosan in Bioassay Screens: Receptor-Based Bioassay Screens. Environmental Health Perspectives, 2008, 116, 1203-1210. | 6.0 | 312 |
| 5 | Evolution of the cellular stress proteome: from monophyletic origin to ubiquitous function. Journal of Experimental Biology, 2003, 206, 3119-3124. | 1.7 | 292 |
| 6 | Physiological mechanisms used by fish to cope with salinity stress. Journal of Experimental Biology, 2015, 218, 1907-1914. | 1.7 | 265 |
| 7 | Phylogenetic and Functional Classification of Mitogen- and Stress-Activated Protein Kinases. Journal of Molecular Evolution, 1998, 46, 571-588. | 1.8 | 181 |
| 8 | Hyperosmolality Causes Growth Arrest of Murine Kidney Cells. Journal of Biological Chemistry, 1998, 273, 13645-13651. | 3.4 | 179 |
| 9 | Osmotic stress sensing and signaling in fishes. FEBS Journal, 2007, 274, 5790-5798. | 4.7 | 173 |
| 10 | Osmotic regulation of gene expression. FASEB Journal, 1996, 10, 1598-1606. | 0.5 | 158 |
| 11 | Mitogen-activated protein kinases are in vivo transducers of osmosensory signals in fish gill cells. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 129, 821-829. | 1.6 | 103 |
| 12 | Protection of Renal Inner Medullary Epithelial Cells from Apoptosis by Hypertonic Stress-induced p53 Activation. Journal of Biological Chemistry, 2000, 275, 18243-18247. | 3.4 | 99 |
| 13 | Rapid hyperosmotic coinduction of two tilapia (Oreochromis mossambicus) 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 |
| 14 | Distinct Regulation of Osmoprotective Genes in Yeast and Mammals. Journal of Biological Chemistry, 1997, 272, 13165-13170. | 3.4 | 91 |
| 15 | The cellular stress response in fish exposed to salinity fluctuations. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 421-435. | 1.9 | 91 |
| 16 | Consumption of Lysozyme-Rich Milk Can Alter Microbial Fecal Populations. Applied and Environmental Microbiology, 2012, 78, 6153-6160. | 3.1 | 87 |
| 17 | Rapid changes in plasma cortisol, osmolality, and respiration in response to salinity stress in tilapia (Oreochromis mossambicus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 260-265. | 1.8 | 84 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Functional genomics and proteomics of the cellular osmotic stress response in `non-model' organisms. Journal of Experimental Biology, 2007, 210, 1593-1601. | 1.7 | 78 |
| 20 | The Combinatorial Nature of Osmosensing in Fishes. Physiology, 2012, 27, 259-275. | 3.1 | 78 |
| 21 | Evolution of cellular stress response mechanisms. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 359-378. | 1.9 | 63 |
| 22 | Quantitative Molecular Phenotyping of Gill Remodeling in a Cichlid Fish Responding to Salinity Stress. Molecular and Cellular Proteomics, 2013, 12, 3962-3975. | 3.8 | 58 |
| 23 | Regulation of osmotic stress transcription factor 1 (Ostf1) in tilapia(Oreochromis mossambicus) gill epithelium during salinity stress. Journal of Experimental Biology, 2006, 209, 3257-3265. | 1.7 | 57 |
| 24 | Osmo- and ionoregulatory responses of green sturgeon (Acipenser medirostris) to salinity acclimation. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 383-390. | 1.5 | 54 |
| 25 | Specific TSC22 domain transcripts are hypertonically induced and alternatively spliced to protect mouse kidney cells during osmotic stress. FEBS Journal, 2007, 274, 109-124. | 4.7 | 53 |
| 26 | A novel tilapia prolactin receptor is functionally distinct from its paralog. Journal of Experimental Biology, 2009, 212, 2007-2015. | 1.7 | 53 |
| 27 | A proteomic analysis of green and white sturgeon larvae exposed to heat stress and selenium. Science of the Total Environment, 2010, 408, 3176-3188. | 8.0 | 53 |
| 28 | Diversity of resistance mechanisms in carbapenem-resistant Enterobacteriaceae at a health care system in Northern California, from 2013 to 2016. Diagnostic Microbiology and Infectious Disease, 2019, 93, 250-257. | 1.8 | 52 |
| 29 | Mechanisms of seawater acclimation in a primitive, anadromous fish, the green sturgeon. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 903-920. | 1.5 | 47 |
| 30 | Mitochondria-rich (MR) cells and the activities of the and carbonic anhydrase in the gill and opercular epithelium of Oreochromis mossambicus adapted to various salinities. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 102, 293-301. | 0.2 | 45 |
| 31 | Salinity-dependent changes in Na+/K+-ATPase content of mitochondria-rich cells contribute to differences in thermal tolerance of Mozambique tilapia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 249-256. | 1.5 | 45 |
| 32 | Sublethal Effects of CuO Nanoparticles on Mozambique Tilapia (Oreochromis mossambicus) Are Modulated by Environmental Salinity. PLoS ONE, 2014, 9, e88723. | 2.5 | 45 |
| 33 | Identification and pathway analysis of immediate hyperosmotic stress responsive molecular mechanisms in tilapia (Oreochromis mossambicus) gill. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 344-356. | 1.0 | 44 |
| 34 | 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 |
| 35 | Compensatory proteome adjustments imply tissue-specific structural and metabolic reorganization following episodic hypoxia or anoxia in the epaulette shark (Hemiscyllium ocellatum). Physiological Genomics, 2010, 42, 93-114. | 2.3 | 42 |
| 36 | Maintenance of genomic integrity in mammalian kidney cells exposed to hyperosmotic stress. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2001, 130, 421-428. | 1.8 | 41 |

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|----|---|----------------------|----------------|
| 37 | Derivation and Osmotolerance Characterization of Three Immortalized Tilapia (Oreochromis) Tj ETQq1 1 0.7843 | 14 _{.7g} BT | /Overlock 10 T |
| 38 | Defining biological stress and stress responses based on principles of physics. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 350-358. | 1.9 | 38 |
| 39 | The proteomic response of sea squirts (genus Ciona) to acute heat stress: A global perspective on the thermal stability of proteins. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2011, 6, 322-334. | 1.0 | 35 |
| 40 | 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 |
| 41 | Prolonged apoptosis in mitochondria-rich cells of tilapia (Oreochromis mossambicus) exposed to elevated salinity. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 535-542. | 1.5 | 30 |
| 42 | New Frontiers for Organismal Biology. BioScience, 2013, 63, 464-471. | 4.9 | 30 |
| 43 | Cellular osmoregulation: beyond ion transport and cell volume. Zoology, 2001, 104, 198-208. | 1.2 | 29 |
| 44 | DNA damage signals facilitate osmotic stress adaptation. American Journal of Physiology - Renal Physiology, 2005, 289, F504-F505. | 2.7 | 29 |
| 45 | Tilapia (<i>Oreochromis mossambicus</i>) brain cells respond to hyperosmotic challenge by inducing <i>myo</i> -inositol biosynthesis. Journal of Experimental Biology, 2013, 216, 4615-25. | 1.7 | 29 |
| 46 | Salinity-induced activation of the <i>myo</i> -inositol biosynthesis pathway in tilapia gill epithelium. Journal of Experimental Biology, 2013, 216, 4626-38. | 1.7 | 28 |
| 47 | 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 |
| 48 | 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 |
| 49 | Skeletal stiffening in an amphibious fish out of water is a response to increased body weight. Journal of Experimental Biology, 2017, 220, 3621-3631. | 1.7 | 25 |
| 50 | Osmolality/salinity-responsive enhancers (OSREs) control induction of osmoprotective genes in euryhaline fish. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2729-E2738. | 7.1 | 24 |
| 51 | Development of a Gill Assay Library for Ecological Proteomics of Threespine Sticklebacks (Gasterosteus aculeatus). Molecular and Cellular Proteomics, 2018, 17, 2146-2163. | 3.8 | 22 |
| 52 | Osmotic stress sensing and signaling in animals. FEBS Journal, 2007, 274, 5781-5781. | 4.7 | 21 |
| 53 | Salinity stress results in rapid cell cycle changes of tilapia (<i>Oreochromis mossambicus</i>) gill epithelial cells. Journal of Experimental Zoology, 2009, 311A, 80-90. | 1.2 | 20 |
| 54 | Early-life exposure to the endocrine disruptor 17-α-ethinylestradiol induces delayed effects in adult brain, liver and ovotestis proteomes of a self-fertilizing fish. Journal of Proteomics, 2019, 194, 112-124. | 2.4 | 18 |

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|----|--|-----|-----------|
| 55 | Osmotic regulation and tissue localization of the <i>myo</i> â€inositol biosynthesis pathway in tilapia (<i>Oreochromis mossambicus</i>) larvae. Journal of Experimental Zoology, 2014, 321, 457-466. | 1.2 | 17 |
| 56 | 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 |
| 57 | Proteomic identification of processes and pathways characteristic of osmoregulatory tissues in spiny dogfish shark (Squalus acanthias). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 328-343. | 1.0 | 16 |
| 58 | Natural feeding influences protein expression in the dogfish shark rectal gland: A proteomic analysis. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2008, 3, 118-127. | 1.0 | 16 |
| 59 | Populationâ€specific plasma proteomes of marine and freshwater threeâ€spined sticklebacks (<i>Gasterosteus aculeatus</i>). Proteomics, 2015, 15, 3980-3992. | 2.2 | 15 |
| 60 | Osmotic regulation of DNA activity and the cell cycle. Cell and Molecular Response To Stress, 2000, 1, 157-179. | 0.4 | 14 |
| 61 | A novel GRAIL E3 ubiquitin ligase promotes environmental salinity tolerance in euryhaline tilapia. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 439-445. | 2.4 | 14 |
| 62 | Population-specific renal proteomes of marine and freshwater three-spined sticklebacks. Journal of Proteomics, 2016, 135, 112-131. | 2.4 | 14 |
| 63 | Physiological mechanisms of stress-induced evolution. Journal of Experimental Biology, 2022, 225, . | 1.7 | 14 |
| 64 | 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 |
| 65 | Hypertonicity and TonEBP promote development of the renal concentrating system. American Journal of Physiology - Renal Physiology, 2004, 287, F876-F877. | 2.7 | 12 |
| 66 | Morphology of the rectal gland of the spiny dogfish (Squalus acanthias) shark in response to feeding. Canadian Journal of Zoology, 2009, 87, 440-452. | 1.0 | 12 |
| 67 | Osmosensing. Fish Physiology, 2012, 32, 45-68. | 0.8 | 12 |
| 68 | An efficient vector-based CRISPR/Cas9 system in an Oreochromis mossambicus cell line using endogenous promoters. Scientific Reports, 2021, 11, 7854. | 3.3 | 12 |
| 69 | Direct Ionic Regulation of the Activity of Myo-Inositol Biosynthesis Enzymes in Mozambique Tilapia. PLoS ONE, 2015, 10, e0123212. | 2.5 | 12 |
| 70 | Nonlinear effects of environmental salinity on the gill transcriptome versus proteome of Oreochromis niloticus modulate epithelial cell turnover. Genomics, 2021, 113, 3235-3249. | 2.9 | 11 |
| 71 | Introduction to the special issue: Comparative biology of cellular stress responses in animals. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 345-349. | 1.9 | 10 |
| 72 | The Physiological Responses of Green Sturgeon (<i>Acipenser medirostris</i>) to Potential Global Climate Change Stressors. Physiological and Biochemical Zoology, 2014, 87, 456-463. | 1.5 | 9 |

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|----|--|-----|-----------|
| 73 | An osmolality/salinity-responsive enhancer 1 (OSRE1) in intron 1 promotes salinity induction of tilapia glutamine synthetase. Scientific Reports, 2020, 10, 12103. | 3.3 | 9 |
| 74 | A dataâ€independent acquisition (DIA) assay library for quantitation of environmental effects on the kidney proteome of <i>Oreochromis niloticus</i> . Molecular Ecology Resources, 2021, 21, 2486-2503. | 4.8 | 9 |
| 75 | Tgm1-like transglutaminases in tilapia (Oreochromis mossambicus). PLoS ONE, 2017, 12, e0177016. | 2.5 | 8 |
| 76 | Proteomics of Osmoregulatory Responses in Threespine Stickleback Gills. Integrative and Comparative Biology, 2020, 60, 304-317. | 2.0 | 8 |
| 77 | Evaluation of Cytotoxicity Attributed to Thimerosal on Murine and Human Kidney Cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 2092-2095. | 2.3 | 7 |
| 78 | Alterations in the proteome of the respiratory tract in response to single and multiple exposures to naphthalene. Proteomics, 2015, 15, 2655-2668. | 2.2 | 6 |
| 79 | Ultrasound detection and characterization of polycystic kidney disease in a mouse model. Comparative Medicine, 2006, 56, 215-21. | 1.0 | 5 |
| 80 | Evolution of Osmosensory MAP Kinase Signaling Pathways. American Zoologist, 2001, 41, 743-757. | 0.7 | 4 |
| 81 | Contrasting seasonal and aseasonal environments across stages of the annual cycle in the rufousâ€collared sparrow, <i>Zonotrichia capensis</i> : Differences in endocrine function, proteome and body condition. Journal of Animal Ecology, 2018, 87, 1364-1382. | 2.8 | 4 |
| 82 | Identification of key proteins involved in stickleback environmental adaptation with system-level analysis. Physiological Genomics, 2020, 52, 531-548. | 2.3 | 2 |
| 83 | Proteomic changes associated with predatorâ€induced morphological defences in oysters. Molecular Ecology, 2022, 31, 4254-4270. | 3.9 | 1 |
| 84 | Proteomic Analysis of the Renal Inner Medulla and Collecting Ducts. , 0, , 39-51. | | 0 |
| 85 | Prediction and Experimental Validation of a New Salinity-Responsive Cis-Regulatory Element (CRE) in a Tilapia Cell Line. Life, 2022, 12, 787. | 2.4 | 0 |