# Alexander Rebl

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3793252/publications.pdf

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|---|---|---|---|
| 88 papers | 2,468 citations | 257101 24 h-index | 223531 46 g-index |
| 93 all docs | 93 docs citations | 93 times ranked | 2889 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Toll-like receptor signaling in bony fish. Veterinary Immunology and Immunopathology, 2010, 134, 139-150. | 0.5 | 379 |
| 2 | Kynurenic Acid: The Janus-Faced Role of an Immunomodulatory Tryptophan Metabolite and Its Link to Pathological Conditions. Frontiers in Immunology, 2017, 8, 1957. | 2.2 | 245 |
| 3 | Siglecs: A journey through the evolution of sialic acid-binding immunoglobulin-type lectins. Developmental and Comparative Immunology, 2018, 86, 219-231. | 1.0 | 128 |
| 4 | Under control: The innate immunity of fish from the inhibitors' perspective. Fish and Shellfish Immunology, 2018, 77, 328-349. | 1.6 | 100 |
| 5 | Increased osteoblast viability at alkaline pH in vitro provides a new perspective on bone regeneration. Biochemistry and Biophysics Reports, 2017, 10, 17-25. | 0.7 | 94 |
| 6 | Characterization of twin toll-like receptors from rainbow trout (Oncorhynchus mykiss): Evolutionary relationship and induced expression by Aeromonas salmonicida salmonicida. Developmental and Comparative Immunology, 2007, 31, 499-510. | 1.0 | 92 |
| 7 | Transcriptome Profiling of Gill Tissue in Regionally Bred and Globally Farmed Rainbow Trout Strains Reveals Different Strategies for Coping with Thermal Stress. Marine Biotechnology, 2013, 15, 445-460. | 1.1 | 75 |
| 8 | Blood Will Tell: What Hematological Analyses Can Reveal About Fish Welfare. Frontiers in Veterinary Science, 2021, 8, 616955. | 0.9 | 65 |
| 9 | Characterization of two key molecules of teleost innate immunity from rainbow trout (Oncorhynchus mykiss): MyD88 and SAA. Veterinary Immunology and Immunopathology, 2009, 131, 122-126. | 0.5 | 57 |
| 10 | Transcriptome Profiling Reveals Insight into Distinct Immune Responses to Aeromonas salmonicida in Gill of Two Rainbow Trout Strains. Marine Biotechnology, 2014, 16, 333-348. | 1.1 | 54 |
| 11 | Impact of Thermal Stress on Kidney-Specific Gene Expression in Farmed Regional and Imported Rainbow Trout. Marine Biotechnology, 2015, 17, 576-592. | 1.1 | 48 |
| 12 | Toll-like receptors in maraena whitefish: Evolutionary relationship among salmonid fishes and patterns of response to Aeromonas salmonicida. Fish and Shellfish Immunology, 2016, 54, 391-401. | 1.6 | 47 |
| 13 | Novel insights into the peritoneal inflammation of rainbow trout (Oncorhynchus mykiss). Fish and Shellfish Immunology, 2013, 35, 1192-1199. | 1.6 | 46 |
| 14 | Salmonid Tollip and MyD88 factors can functionally replace their mammalian orthologues in TLR-mediated trout SAA promoter activation. Developmental and Comparative Immunology, 2011, 35, 81-87. | 1.0 | 42 |
| 15 | Aeromonas salmonicida Infection Only Moderately Regulates Expression of Factors Contributing to Toll-Like Receptor Signaling but Massively Activates the Cellular and Humoral Branches of Innate Immunity in Rainbow Trout (Oncorhynchus mykiss). Journal of Immunology Research, 2015, 2015, 1-16. | 0.9 | 42 |
| 16 | Characterization of the interleukin 1 receptor-associated kinase 4 (IRAK4)-encoding gene in salmonid fish: The functional copy is rearranged in Oncorhynchus mykiss and that factor can impair TLR signaling in mammalian cells. Fish and Shellfish Immunology, 2014, 36, 206-214. | 1.6 | 37 |
| 17 | Tollip, a negative regulator of TLR-signalling, is encoded by twin genes in salmonid fish. Fish and Shellfish Immunology, 2008, 25, 153-162. | 1.6 | 36 |
| 18 | Microarray-predicted marker genes and molecular pathways indicating crowding stress in rainbow trout (Oncorhynchus mykiss). Aquaculture, 2017, 473, 355-365. | 1.7 | 35 |

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|---|---|---|---|
| 19 | Identification of molecular stress indicators in pikeperch Sander lucioperca correlating with rising water temperatures. Aquaculture, 2019, 501, 260-271. | 1.7 | 35 |
| 20 | Creatine metabolism differs between mammals and rainbow trout (Oncorhynchus mykiss). SpringerPlus, 2014, 3, 510. | 1.2 | 33 |
| 21 | The First Highly Contiguous Genome Assembly of Pikeperch (Sander lucioperca), an Emerging Aquaculture Species in Europe. Genes, 2019, 10, 708. | 1.0 | 33 |
| 22 | Peptidylarginine deiminase gene is differentially expressed in freshwater and brackish water rainbow trout. Molecular Biology Reports, 2010, 37, 2333-2339. | 1.0 | 31 |
| 23 | Comprehensive and comparative transcription analyses of the complement pathway in rainbow trout. Fish and Shellfish Immunology, 2015, 42, 98-107. | 1.6 | 30 |
| 24 | Adverse Husbandry of Maraena Whitefish Directs the Immune System to Increase Mobilization of Myeloid Cells and Proinflammatory Responses. Frontiers in Immunology, 2016, 7, 631. | 2.2 | 28 |
| 25 | Gradual and Acute Temperature Rise Induces Crossing Endocrine, Metabolic, and Immunological Pathways in Maraena Whitefish (Coregonus maraena). Frontiers in Genetics, 2018, 9, 241. | 1.1 | 28 |
| 26 | Polysialic Acid in Human Plasma Can Compensate the Cytotoxicity of Histones. International Journal of Molecular Sciences, 2018, 19, 1679. | 1.8 | 24 |
| 27 | The proximal promoter of a novel interleukin-8-encoding gene in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2014, 46, 155-164. | 1.0 | 23 |
| 28 | Early response of salmonid head-kidney cells to stress hormones and toll-like receptor ligands. Fish and Shellfish Immunology, 2020, 98, 950-961. | 1.6 | 23 |
| 29 | Identification and de novo sequencing of housekeeping genes appropriate for gene expression analyses in farmed maraena whitefish (Coregonus maraena) during crowding stress. Fish Physiology and Biochemistry, 2015, 41, 397-412. | 0.9 | 22 |
| 30 | Evolutionary expression differences of creatine synthesis-related genes: Implications for skeletal muscle metabolism in fish. Scientific Reports, 2019, 9, 5429. | 1.6 | 22 |
| 31 | Structurally diverse genes encode Tlr2 in rainbow trout: The conserved receptor cannot be stimulated by classical ligands to activate NF-Î°B inÂvitro. Developmental and Comparative Immunology, 2016, 54, 75-88. | 1.0 | 21 |
| 32 | Identification of differentially expressed protective genes in liver of two rainbow trout strains. Veterinary Immunology and Immunopathology, 2012, 145, 305-315. | 0.5 | 19 |
| 33 | Characterization of Dehydrodolichyl diphosphate synthase gene in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 260-265. | 0.7 | 18 |
| 34 | MARCH5 gene is duplicated in rainbow trout, but only fish-specific gene copy is up-regulated after VHSV infection. Fish and Shellfish Immunology, 2011, 31, 1041-1050. | 1.6 | 18 |
| 35 | Comparison of splenic transcriptome activity of two rainbow trout strains differing in robustness under regional aquaculture conditions. Molecular Biology Reports, 2013, 40, 1955-1966. | 1.0 | 18 |
| 36 | Systematic identification and characterization of stress-inducible heat shock proteins (HSPs) in the salmon louse (Lepeophtheirus salmonis). Cell Stress and Chaperones, 2018, 23, 127-139. | 1.2 | 18 |

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|---|---|---|---|
| 37 | The synergistic interaction of thermal stress coupled with overstocking strongly modulates the transcriptomic activity and immune capacity of rainbow trout (Oncorhynchus mykiss). Scientific Reports, 2020, 10, 14913. | 1.6 | 18 |
| 38 | Dawn to Dusk: Diurnal Rhythm of the Immune Response in Rainbow Trout (Oncorhynchus Mykiss). Biology, 2020, 9, 8. | 1.3 | 17 |
| 39 | Cloning and characterization of the proximal promoter region of rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 1.6 | 16 |
| 40 | Characterization of igf1 and igf2 genes during maraena whitefish ( Coregonus maraena ) ontogeny and the effect of temperature on embryogenesis and igf expression. Growth Hormone and IGF Research, 2018, 40, 32-43. | 0.5 | 15 |
| 41 | Sialylated Cervical Mucins Inhibit the Activation of Neutrophils to Form Neutrophil Extracellular Traps in Bovine in vitro Model. Frontiers in Immunology, 2019, 10, 2478. | 2.2 | 15 |
| 42 | RNA-Seq of Single Fish Cells â€“ Seeking Out the Leukocytes Mediating Immunity in Teleost Fishes. Frontiers in Immunology, 2022, 13, 798712. | 2.2 | 15 |
| 43 | Cytogenetic anchoring of radiation hybrid and virtual maps of sheep chromosome X and comparison of X chromosomes in sheep, cattle, and human. Chromosome Research, 2009, 17, 497-506. | 1.0 | 14 |
| 44 | Advanced comparative cytogenetic analysis of X chromosomes in river buffalo, cattle, sheep, and human. Chromosome Research, 2012, 20, 413-425. | 1.0 | 13 |
| 45 | Multigene Expression Assay for Assessment of the Immune Status of Atlantic Salmon. Genes, 2020, 11, 1236. | 1.0 | 13 |
| 46 | Polysialic acid is released by human umbilical vein endothelial cells (HUVEC) in vitro. Cell and Bioscience, 2018, 8, 64. | 2.1 | 12 |
| 47 | At Least Two Genes Encode Many Variants of Irak3 in Rainbow Trout, but Neither the Full-Length Factor Nor Its Variants Interfere Directly With the TLR-Mediated Stimulation of Inflammation. Frontiers in Immunology, 2019, 10, 2246. | 2.2 | 12 |
| 48 | A Multidisciplinary Approach Evaluating Soybean Meal-Induced Enteritis in Rainbow Trout Oncorhynchus mykiss. Fishes, 2022, 7, 22. | 0.7 | 12 |
| 49 | Characterisation of the teleostean ÎºB-Ras family: The two members NKIRAS1 and NKIRAS2 from rainbow trout influence the activity of NF-ÎºB in opposite ways. Fish and Shellfish Immunology, 2020, 106, 1004-1013. | 1.6 | 11 |
| 50 | Photoperiod in recirculation aquaculture systems and timing of seawater transfer affect seawater growth performance of Atlantic salmon (Salmo salar). Journal of the World Aquaculture Society, 2023, 54, 73-95. | 1.2 | 11 |
| 51 | ST2 from rainbow trout quenches TLR signalling, localises at the nuclear membrane and allows the nuclear translocation of MYD88. Developmental and Comparative Immunology, 2017, 67, 139-152. | 1.0 | 10 |
| 52 | Insights into early ontogenesis: characterization of stress and development key genes of pikeperch (Sander lucioperca) in vivo and in vitro. Fish Physiology and Biochemistry, 2021, 47, 515-532. | 0.9 | 10 |
| 53 | Development of Atlantic Salmon (Salmo salar L.) Under Hypoxic Conditions Induced Sustained Changes in Expression of Immune Genes and Reduced Resistance to Moritella viscosa. Frontiers in Ecology and Evolution, 2021, 9, . | 1.1 | 10 |
| 54 | A High-Resolution Radiation Hybrid Map of Sheep Chromosome X and Comparison with Human and Cattle. Cytogenetic and Genome Research, 2009, 125, 40-45. | 0.6 | 9 |

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|---|---|---|---|
| 55 | Comparative molecular characterization of the regucalcin (RGN) gene in rainbow trout (Oncorhynchus mykiss) and maraena whitefish (Coregonus marena). Molecular Biology Reports, 2012, 39, 4291-4300. | 1.0 | 9 |
| 56 | GRP94 is encoded by two differentially expressed genes during development of rainbow trout (Oncorhynchus mykiss). Fish Physiology and Biochemistry, 2014, 40, 1917-1926. | 0.9 | 9 |
| 57 | Transcriptome sequencing of maraena whitefish (Coregonus maraena). Marine Genomics, 2016, 29, 27-29. | 0.4 | 9 |
| 58 | Multiple gene and transcript variants encoding trout C-polysaccharide binding proteins are differentially but strongly induced after infection with Aeromonas salmonicida. Fish and Shellfish Immunology, 2017, 60, 509-519. | 1.6 | 9 |
| 59 | Identification of genes involved in cold-shock response in rainbow trout (Oncorhynchus mykiss). Journal of Genetics, 2017, 96, 701-706. | 0.4 | 9 |
| 60 | Effects of Chronic Hypoxia on the Immune Status of Pikeperch (Sander lucioperca Linnaeus, 1758). Biology, 2021, 10, 649. | 1.3 | 8 |
| 61 | Extended Cytogenetic Maps of Sheep Chromosome 1 and Their Cattle and River Buffalo Homoeologues: Comparison with the OAR1 RH Map and Human Chromosomes 2, 3, 21 and 1q. Cytogenetic and Genome Research, 2011, 133, 16-24. | 0.6 | 7 |
| 62 | MC3T3 osteoblast-like cells cultured at alkaline pH: Microarray data (Affymetrix GeneChip Mouse 2.0) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.5 | 7 |
| 63 | A molecular survey of programmed cell death in rainbow trout: Structural and functional specifications of apoptotic key molecules. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 230, 57-69. | 0.7 | 7 |
| 64 | Vertebrate Alpha2,8-Sialyltransferases (ST8Sia): A Teleost Perspective. International Journal of Molecular Sciences, 2020, 21, 513. | 1.8 | 7 |
| 65 | Characterization of Sialic Acid-Binding Immunoglobulin-Type Lectins in Fish Reveals Teleost-Specific Structures and Expression Patterns. Cells, 2020, 9, 836. | 1.8 | 7 |
| 66 | An ultra-high density SNP-based linkage map for enhancing the pikeperch (Sander lucioperca) genome assembly to chromosome-scale. Scientific Reports, 2020, 10, 22335. | 1.6 | 7 |
| 67 | Molecular characterization of PRR13 and its tissue-specific expression in rainbow trout (Oncorhynchus mykiss). Fish Physiology and Biochemistry, 2010, 36, 1271-1276. | 0.9 | 6 |
| 68 | Characterization of the Polysialylation Status in Ovaries of the Salmonid Fish Coregonus maraena and the Percid Fish Sander lucioperca. Cells, 2020, 9, 2391. | 1.8 | 5 |
| 69 | Effect of two constant light regimens on antibody profiles and immune gene expression in Atlantic salmon following vaccination and experimental challenge with salmonid alphavirus. Fish and Shellfish Immunology, 2021, 118, 188-196. | 1.6 | 5 |
| 70 | PIAS Factors from Rainbow Trout Control NF-Î°B- and STAT-Dependent Gene Expression. International Journal of Molecular Sciences, 2021, 22, 12815. | 1.8 | 5 |
| 71 | Cloning and tissue-specific expression of a .DELTA.-COP homologue in a freshwater and a brackish water-adapted strain of rainbow trout (Oncorhynchus mykiss). Genes and Genetic Systems, 2009, 84, 239-243. | 0.2 | 4 |
| 72 | Duplicated NELL2 genes show different expression patterns in two rainbow trout strains after temperature and pathogen challenge. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 163, 65-73. | 0.7 | 4 |

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|---|---|---|---|
| 73 | Plasma Treatment of Fish Cells: The Importance of Defining Cell Culture Conditions in Comparative Studies. Applied Sciences (Switzerland), 2021, 11, 2534. | 1.3 | 4 |
| 74 | Comprehensive Characterization of Multitissue Expression Landscape, Co-Expression Networks and Positive Selection in Pikeperch. Cells, 2021, 10, 2289. | 1.8 | 4 |
| 75 | The Effect of Different Feeding Applications on the Swimming Behaviour of Siberian Sturgeon: A Method for Improving Restocking Programmes. Biology, 2021, 10, 1162. | 1.3 | 4 |
| 76 | Evaluation of Immune Status in Two Cohorts of Atlantic Salmon Raised in Different Aquaculture Systems (Case Study). Genes, 2022, 13, 736. | 1.0 | 4 |
| 77 | Ironâ€“sulfur cluster scaffold (ISCU) gene is duplicated in salmonid fish and tissue and temperature dependent expressed in rainbow trout. Gene, 2013, 512, 251-258. | 1.0 | 3 |
| 78 | Comparative Analysis of the Transcriptome and Distribution of Putative SNPs in Two Rainbow Trout (Oncorhynchus mykiss) Breeding Strains by Using Next-Generation Sequencing. Genes, 2020, 11, 841. | 1.0 | 3 |
| 79 | Time-Dependent Effects of Acute Handling on the Brain Monoamine System of the Salmonid Coregonus maraena. Frontiers in Neuroscience, 2020, 14, 591738. | 1.4 | 3 |
| 80 | Assessment of behavioural and physiological traits as indicators of suitability for European perch aquaculture. Aquaculture, 2021, 544, 737048. | 1.7 | 3 |
| 81 | The Early Immune Response of Lymphoid and Myeloid Head-Kidney Cells of Rainbow Trout (Oncorhynchus mykiss) Stimulated with Aeromonas salmonicida. Fishes, 2022, 7, 12. | 0.7 | 3 |
| 82 | Evaluation of blood cell viability rate, gene expression, and O-GlcNAcylation profiles as indicative signatures for fungal stimulation of salmonid cell models. Molecular Immunology, 2022, 142, 120-129. | 1.0 | 3 |
| 83 | Interactions of plantâ€based feeding and handling stress on the expression of selected immune markers in rainbow trout ( Oncorhynchus mykiss ). Aquaculture Research, 2022, 53, 4304-4315. | 0.9 | 3 |
| 84 | Gene Profiling in the Adipose Fin of Salmonid Fishes Supports Its Function as a Flow Sensor. Genes, 2020, 11, 21. | 1.0 | 2 |
| 85 | Experimental Handling Challenges Result in Minor Changes in the Phagocytic Capacity and Transcriptome of Head-Kidney Cells of the Salmonid Fish Coregonus maraena. Frontiers in Veterinary Science, 2022, 9, 889635. | 0.9 | 2 |
| 86 | The expression of myogenic gene markers during the <scp>embryoâ€larvalâ€transition</scp> in Pikeperch () Tj ETQq0 0 0 rgBT /Overloc | 0.9 | 2 |
| 87 | Gene expression profiling supports the welfare evaluation of rainbow trout (Oncorhynchus mykiss) reared under different environmental and management conditions in six commercial flow through systems. Aquaculture, 2022, 557, 738310. | 1.7 | 1 |
| 88 | Different expression of a C-type lectin gene and its transcript variant in two rainbow trout strains. Fish and Shellfish Immunology, 2013, 34, 1714. | 1.6 | 0 |