# Ferenc Mueller

List of Publications by Year
in descending order



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|---|---|---|---|
| 87 papers | 7,125 citations | 87723<br>38 h-index | 66788<br>78 g-index |
| 98 all docs | 98 docs citations | 98 times ranked | 14009 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An atlas of active enhancers across human cell types and tissues. Nature, 2014, 507, 455-461. | 13.7 | 2,269 |
| 2 | Pancreatic islet enhancer clusters enriched in type 2 diabetes risk-associated variants. Nature Genetics, 2014, 46, 136-143. | 9.4 | 475 |
| 3 | Zebrafish embryos as models for embryotoxic and teratological effects of chemicals. Reproductive Toxicology, 2009, 28, 245-253. | 1.3 | 240 |
| 4 | Germline mutations in DIS3L2 cause the Perlman syndrome of overgrowth and Wilms tumor susceptibility. Nature Genetics, 2012, 44, 277-284. | 9.4 | 219 |
| 5 | Prepatterning of Developmental Gene Expression by Modified Histones before Zygotic Genome Activation. Developmental Cell, 2011, 21, 993-1004. | 3.1 | 188 |
| 6 | Two independent transcription initiation codes overlap on vertebrate core promoters. Nature, 2014, 507, 381-385. | 13.7 | 182 |
| 7 | Transcriptional profiling reveals barcode-like toxicogenomic responses in the zebrafish embryo. Genome Biology, 2007, 8, R227. | 13.9 | 166 |
| 8 | Mutations in VIPAR cause an arthrogryposis, renal dysfunction and cholestasis syndrome phenotype with defects in epithelial polarization. Nature Genetics, 2010, 42, 303-312. | 9.4 | 162 |
| 9 | Loss-of-Function Mutations in RAB18 Cause Warburg Micro Syndrome. American Journal of Human Genetics, 2011, 88, 499-507. | 2.6 | 158 |
| 10 | Sonic hedgehog, secreted by amacrine cells, acts as a short-range signal to direct differentiation and lamination in the zebrafish retina. Development (Cambridge), 2004, 131, 3849-3858. | 1.2 | 128 |
| 11 | Regulation and expression of transgenes in fishâ€"a review. Transgenic Research, 1996, 5, 147-166. | 1.3 | 127 |
| 12 | Automated high-throughput mapping of promoter-enhancer interactions in zebrafish embryos. Nature Methods, 2009, 6, 911-916. | 9.0 | 123 |
| 13 | Dynamic regulation of the transcription initiation landscape at single nucleotide resolution during vertebrate embryogenesis. Genome Research, 2013, 23, 1938-1950. | 2.4 | 119 |
| 14 | A Multicassette Gateway Vector Set for High Throughput and Comparative Analyses in Ciona and Vertebrate Embryos. PLoS ONE, 2007, 2, e916. | 1.1 | 113 |
| 15 | Functional annotation of human long noncoding RNAs via molecular phenotyping. Genome Research, 2020, 30, 1060-1072. | 2.4 | 109 |
| 16 | TBP is not universally required for zygotic RNA polymerase II transcription in zebrafish. Current Biology, 2001, 11, 282-287. | 1.8 | 102 |
| 17 | Splicing Segregation: The Minor Spliceosome Acts outside the Nucleus and Controls Cell Proliferation. Cell, 2007, 131, 718-729. | 13.5 | 97 |
| 18 | The multicoloured world of promoter recognition complexes. EMBO Journal, 2004, 23, 2-8. | 3.5 | 83 |

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|---|---|---|---|
| 19 | Cloning and expression analysis of an inducibleHSP70gene from tilapia fish. FEBS Letters, 2000, 474, 5-10. | 1.3 | 81 |
| 20 | Search for enhancers: teleost models in comparative genomic and transgenic analysis ofcisregulatory elements. BioEssays, 2002, 24, 564-572. | 1.2 | 80 |
| 21 | TBP2, a Vertebrate-Specific Member of the TBP Family, Is Required in Embryonic Development of Zebrafish. Current Biology, 2004, 14, 593-598. | 1.8 | 80 |
| 22 | New Problems in RNA Polymerase II Transcription Initiation: Matching the Diversity of Core Promoters with a Variety of Promoter Recognition Factors. Journal of Biological Chemistry, 2007, 282, 14685-14689. | 1.6 | 80 |
| 23 | Enhancers active in dopamine neurons are a primary link between genetic variation and neuropsychiatric disease. Nature Neuroscience, 2018, 21, 1482-1492. | 7.1 | 79 |
| 24 | Cooperation of sonic hedgehog enhancers in midline expression. Developmental Biology, 2007, 301, 578-589. | 0.9 | 78 |
| 25 | Developmental regulation of transcription initiation: more than just changing the actors. Current Opinion in Genetics and Development, 2010, 20, 533-540. | 1.5 | 76 |
| 26 | Chromatin and DNA sequences in defining promoters for transcription initiation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 118-128. | 0.9 | 69 |
| 27 | Automated feature detection and imaging for high-resolution screening of zebrafish embryos. BioTechniques, 2011, 50, 319-324. | 0.8 | 65 |
| 28 | Optimisation of Embryonic and Larval ECG Measurement in Zebrafish for Quantifying the Effect of QT Prolonging Drugs. PLoS ONE, 2013, 8, e60552. | 1.1 | 61 |
| 29 | The TATA-binding protein regulates maternal mRNA degradation and differential zygotic transcription in zebrafish. EMBO Journal, 2007, 26, 3945-3956. | 3.5 | 57 |
| 30 | Developmental toxicity and estrogenic potency of zearalenone in zebrafish (Danio rerio). Aquatic Toxicology, 2013, 136-137, 13-21. | 1.9 | 55 |
| 31 | Activator effect of coinjected enhancers on the muscle-specific expression of promoters in zebrafish embryos. Molecular Reproduction and Development, 1997, 47, 404-412. | 1.0 | 53 |
| 32 | Synthesis of azetidines and pyrrolidines via iodocyclisation of homoallyl amines and exploration of activity in a zebrafish embryo assay. Organic and Biomolecular Chemistry, 2013, 11, 5083. | 1.5 | 53 |
| 33 | Targeted transgene integration overcomes variability of position effects in zebrafish. Development (Cambridge), 2014, 141, 715-724. | 1.2 | 53 |
| 34 | Efficient transient expression system based on square pulse electroporation and in vivo luciferase assay of fertilized fish eggs. FEBS Letters, 1993, 324, 27-32. | 1.3 | 47 |
| 35 | Hedgehog signaling patterns the outgrowth of unpaired skeletal appendages in zebrafish. BMC Developmental Biology, 2007, 7, 75. | 2.1 | 46 |
| 36 | Characterization of zebrafish smad1, smad2 and smad5: the amino-terminus of Smad1 and Smad5 is required for specific function in the embryo. Mechanisms of Development, 1999, 88, 73-88. | 1.7 | 43 |

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|---|---|---|---|
| 37 | A Floor Plate Enhancer of the Zebrafish netrin1 Gene Requires Cyclops (Nodal) Signalling and the Winged Helix Transcription Factor FoxA2. Developmental Biology, 2002, 252, 1-14. | 0.9 | 42 |
| 38 | A cell cycle-coordinated Polymerase II transcription compartment encompasses gene expression before global genome activation. Nature Communications, 2019, 10, 691. | 5.8 | 42 |
| 39 | Shuffling of cis-regulatory elements is a pervasive feature of the vertebrate lineage. Genome Biology, 2006, 7, R56. | 13.9 | 41 |
| 40 | Redefining the Initiation and Maintenance of Zebrafish Interrenal Steroidogenesis by Characterizing the Key Enzyme Cyp11a2. Endocrinology, 2013, 154, 2702-2711. | 1.4 | 38 |
| 41 | Transcriptional, post-transcriptional and chromatin-associated regulation of pri-miRNAs, pre-miRNAs and moRNAs. Nucleic Acids Research, 2016, 44, 3070-3081. | 6.5 | 38 |
| 42 | Dual-initiation promoters with intertwined canonical and TCT/TOP transcription start sites diversify transcript processing. Nature Communications, 2020, 11, 168. | 5.8 | 37 |
| 43 | High transgene activity in the yolk syncytial layer affects quantitative transient expression assays in zebrafish (Danio rerio) embryos. Transgenic Research, 1996, 5, 433-442. | 1.3 | 34 |
| 44 | SLIC-CAGE: high-resolution transcription start site mapping using nanogram-levels of total RNA. Genome Research, 2018, 28, 1943-1956. | 2.4 | 33 |
| 45 | Methyl Mercury Suppresses the Formation of the Tail Primordium in Developing Zebrafish Embryos. Toxicological Sciences, 2010, 115, 379-390. | 1.4 | 31 |
| 46 | Ferredoxin 1b (Fdx1b) Is the Essential Mitochondrial Redox Partner for Cortisol Biosynthesis in Zebrafish. Endocrinology, 2016, 157, 1122-1134. | 1.4 | 29 |
| 47 | Fish as Bioreactors: Transgene Expression of Human Coagulation Factor VII in Fish Embryos. Marine Biotechnology, 2004, 6, 485-492. | 1.1 | 28 |
| 48 | Novel SPG11 mutations in Asian kindreds and disruption of spatacsin function in the zebrafish. Neurogenetics, 2010, 11, 379-389. | 0.7 | 26 |
| 49 | Multiomic atlas with functional stratification and developmental dynamics of zebrafish cis-regulatory elements. Nature Genetics, 2022, 54, 1037-1050. | 9.4 | 26 |
| 50 | Transposition and targeting of the prokaryotic mobile element IS30in zebrafish. FEBS Letters, 2003, 550, 46-50. | 1.3 | 25 |
| 51 | The identification and functional characterisation of conserved regulatory elements in developmental genes. Briefings in Functional Genomics & Proteomics, 2005, 3, 332-350. | 3.8 | 24 |
| 52 | Highly conserved elements discovered in vertebrates are present in non-syntenic loci of tunicates, act as enhancers and can be transcribed during development. Nucleic Acids Research, 2013, 41, 3600-3618. | 6.5 | 24 |
| 53 | Genetic Disruption of 21-Hydroxylase in Zebrafish Causes Interrenal Hyperplasia. Endocrinology, 2017, 158, 4165-4173. | 1.4 | 24 |
| 54 | TBPL2/TFIIA complex establishes the maternal transcriptome through oocyte-specific promoter usage. Nature Communications, 2020, 11, 6439. | 5.8 | 23 |

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|---|---|---|---|
| 55 | Two Lamprey Hedgehog Genes Share Non-Coding Regulatory Sequences and Expression Patterns with Gnathostome Hedgehogs. PLoS ONE, 2010, 5, e13332. | 1.1 | 22 |
| 56 | Liposome-mediated gene transfer in fish embryos. Transgenic Research, 1994, 3, 116-119. | 1.3 | 20 |
| 57 | Cyclops-independent floor plate differentiation in zebrafish embryos. Developmental Dynamics, 2003, 226, 59-66. | 0.8 | 19 |
| 58 | Transcriptional Regulation During Zygotic Genome Activation in Zebrafish and Other Anamniote Embryos. Advances in Genetics, 2016, 95, 161-194. | 0.8 | 18 |
| 59 | Germ cell differentiation requires Tdrd7-dependent chromatin and transcriptome reprogramming marked by germ plasm relocalization. Developmental Cell, 2021, 56, 641-656.e5. | 3.1 | 18 |
| 60 | Estrogen sensitive liver transgenic zebrafish (Danio rerio) line (Tg(vtg1:mCherry)) suitable for the direct detection of estrogenicity in environmental samples. Aquatic Toxicology, 2019, 208, 157-167. | 1.9 | 17 |
| 61 | Phenotypic effects in Xenopus and zebrafish suggest that one-eyed pinhead functions as antagonist of BMP signalling. Mechanisms of Development, 2000, 94, 37-46. | 1.7 | 16 |
| 62 | Functional diversification of sonic hedgehog paralog enhancers identified by phylogenomic reconstruction. Genome Biology, 2007, 8, R106. | 13.9 | 15 |
| 63 | Conservation of shh cis-regulatory architecture of the coelacanth is consistent with its ancestral phylogenetic position. EvoDevo, 2010, 1, 11. | 1.3 | 15 |
| 64 | The Tetraodon nigroviridis reference transcriptome: developmental transition, length retention and microsynteny of long non-coding RNAs in a compact vertebrate genome. Scientific Reports, 2016, 6, 33210. | 1.6 | 14 |
| 65 | Expression and activity profiling of the steroidogenic enzymes of glucocorticoid biosynthesis and the <i>fdx1</i> coâ€factors in zebrafish. Journal of Neuroendocrinology, 2018, 30, e12586. | 1.2 | 14 |
| 66 | The Development and Growth of Tissues Derived from Cranial Neural Crest and Primitive Mesoderm Is Dependent on the Ligation Status of Retinoic Acid Receptor Î³: Evidence That Retinoic Acid Receptor Î³ Functions to Maintain Stem/Progenitor Cells in the Absence of Retinoic Acid. Stem Cells and Development, 2015, 24, 507-519. | 1.1 | 13 |
| 67 | Comparative Aspects of Alternative Laboratory Fish Models. Zebrafish, 2005, 2, 47-54. | 0.5 | 12 |
| 68 | Glucocorticoid deficiency causes transcriptional and post-transcriptional reprogramming of glutamine metabolism. EBioMedicine, 2018, 36, 376-389. | 2.7 | 12 |
| 69 | Cellular rearrangement of the prechordal plate contributes to eye degeneration in the cavefish. Developmental Biology, 2018, 441, 221-234. | 0.9 | 12 |
| 70 | A native, highly active<i>Tc1/mariner</i>transposon from zebrafish (<i>ZB</i>) offers an efficient genetic manipulation tool for vertebrates. Nucleic Acids Research, 2021, 49, 2126-2140. | 6.5 | 11 |
| 71 | Ancestrally Duplicated Conserved Noncoding Element Suggests Dual Regulatory Roles of HOTAIR in cis and trans. IScience, 2020, 23, 101008. | 1.9 | 9 |
| 72 | Intraovarian transplantation of stage I-II follicles results in viable zebrafish embryos. International Journal of Developmental Biology, 2010, 54, 585-589. | 0.3 | 8 |

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| 73 | Description of Embryonic Development of Spotted Green Pufferfish (<i>Tetraodon nigroviridis</i>). Zebrafish, 2014, 11, 509-517. | 0.5 | 8 |
| 74 | Enhancer Trapping and Annotation in Zebrafish Mediated with Sleeping Beauty, piggyBac and Tol2 Transposons. Genes, 2018, 9, 630. | 1.0 | 8 |
| 75 | Embryonic tissue differentiation is characterized by transitions in cell cycle dynamic-associated core promoter regulation. Nucleic Acids Research, 2020, 48, 8374-8392. | 6.5 | 8 |
| 76 | TBP2 is a general transcription factor specialized for female germ cells. Journal of Biology, 2009, 8, 97. | 2.7 | 7 |
| 77 | 3D Finite Element Electrical Model of Larval Zebrafish ECG Signals. PLoS ONE, 2016, 11, e0165655. | 1.1 | 7 |
| 78 | Testing of Cis-Regulatory Elements by Targeted Transgene Integration in Zebrafish Using PhiC31 Integrase. Methods in Molecular Biology, 2016, 1451, 81-91. | 0.4 | 7 |
| 79 | Identification of downstream effectors of retinoic acid specifying the zebrafish pancreas by integrative genomics. Scientific Reports, 2021, 11, 22717. | 1.6 | 6 |
| 80 | Minor splicing: Nuclear dogma still in question. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, E37. | 3.3 | 3 |
| 81 | Expression and knockdown of zebrafish folliculin suggests requirement for embryonic brain morphogenesis. BMC Developmental Biology, 2016, 16, 23. | 2.1 | 3 |
| 82 | Fish genomics: casting the net wide. Briefings in Functional Genomics, 2014, 13, 79-81. | 1.3 | 2 |
| 83 | Using Tg(Vtg1:mcherry) Zebrafish Embryos to Test the Estrogenic Effects of Endocrine Disrupting Compounds. Journal of Visualized Experiments, 2020, , . | 0.2 | 1 |
| 84 | Protocol for intelligent high-content screening of zebrafish embryos on a standard widefield screening microscope. BioTechniques, 2017, 62, xx. | 0.8 | 0 |
| 85 | A Method for Zebrafish Follicle Transplantation into Recipient Mothers for the Generation of Fertilizable Eggs and Viable Offspring. Methods in Molecular Biology, 2019, 1920, 343-352. | 0.4 | 0 |
| 86 | Visualization of Transcriptional Activity in Early Zebrafish Primordial Germ. Methods in Molecular Biology, 2021, 2218, 185-194. | 0.4 | 0 |
| 87 | Sequence Analyses to Study the Evolutionary History and Cis-Regulatory Elements of Hedgehog Genes. Methods in Molecular Biology, 2007, 397, 231-250. | 0.4 | 0 |