# Stephen C Ekker

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 174 papers | 13,087 citations | 52 h-index | 113 g-index |
| 223 ext. papers | 14,502 ext. citations | 6.8 avg, IF | 6.23 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 174 | 320 Genetic Compensation as a mechanism underlying patients with Rare ALS. *Journal of Clinical and Translational Science*, **2022**, 6, 57-57 | 0.4 | |
| 173 | An optimized FusX assembly-based technique to introduce mitochondrial TC-to-TT variations in human cell lines.. *STAR Protocols*, **2022**, 3, 101288 | 1.4 | 1 |
| 172 | The NIH Somatic Cell Genome Editing program. *Nature*, **2021**, 592, 195-204 | 50.4 | 21 |
| 171 | Rapid Adaptation and Remote Delivery of Undergraduate Research Training during the COVID-19 Pandemic. *Sustainability*, **2021**, 13, 6133 | 3.6 | 1 |
| 170 | Deploying MMEJ using MENdel in precision gene editing applications for gene therapy and functional genomics. *Nucleic Acids Research*, **2021**, 49, 67-78 | 20.1 | 0 |
| 169 | GeneWeld: Efficient Targeted Integration Directed by Short Homology in Zebrafish. *Bio-protocol*, **2021**, 11, e4100 | 0.9 | 4 |
| 168 | Rapid adaptation and remote delivery of undergraduate research training during the COVID 19 Pandemic **2021**, | | 1 |
| 167 | Imaging cytoplasmic lipid droplets in vivo with fluorescent perilipin 2 and perilipin 3 knock-in zebrafish. *ELife*, **2021**, 10, | 8.9 | 8 |
| 166 | Endogenous zebrafish proneural Cre drivers generated by CRISPR/Cas9 short homology directed targeted integration. *Scientific Reports*, **2021**, 11, 1732 | 4.9 | 3 |
| 165 | The FusX TALE Base Editor (FusXTBE) for Rapid Mitochondrial DNA Programming of Human Cells and Zebrafish Disease Models. *CRISPR Journal*, **2021**, | 2.5 | 5 |
| 164 | Efficient Gene Editing of CART Cells with CRISPR-Cas12a for Enhanced Antitumor Efficacy. *Blood*, **2020**, 136, 6-7 | 2.2 | 0 |
| 163 | Retinoid X receptor alpha is a spatiotemporally predominant therapeutic target for anthracycline-induced cardiotoxicity. *Science Advances*, **2020**, 6, eaay2939 | 14.3 | 10 |
| 162 | L-type voltage-gated calcium channel agonists mitigate hearing loss and modify ribbon synapse morphology in the zebrafish model of Usher syndrome type 1. *DMM Disease Models and Mechanisms*, **2020**, 13, | 4.1 | 5 |
| 161 | Efficient targeted integration directed by short homology in zebrafish and mammalian cells. *ELife*, **2020**, 9, | 8.9 | 34 |
| 160 | Building the vertebrate codex using the gene breaking protein trap library. *ELife*, **2020**, 9, | 8.9 | 6 |
| 159 | The GoAudio Quantitative Mobile Audiology Test Enhances Access to Clinical Hearing Assessments. *American Journal of Audiology*, **2020**, 29, 887-897 | 1.8 | 1 |
| 158 | The Gene Sculpt Suite: a set of tools for genome editing. *Nucleic Acids Research*, **2019**, 47, W175-W182 | 20.1 | 12 |

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| 157 | CAR T Cell Immunotherapy in Human and Veterinary Oncology: Changing the Odds Against Hematological Malignancies. *AAPS Journal*, **2019**, 21, 50 | 3.7 | 6 |
| 156 | The LipoGlo reporter system for sensitive and specific monitoring of atherogenic lipoproteins. *Nature Communications*, **2019**, 10, 3426 | 17.4 | 17 |
| 155 | Taking a closer look at whole organisms. *ELife*, **2019**, 8, | 8.9 | 3 |
| 154 | Expanding the CRISPR Toolbox with ErCas12a in Zebrafish and Human Cells. *CRISPR Journal*, **2019**, 2, 417-433 | 2.5 | 13 |
| 153 | Case-Based Learning in Translational Biomedical Research Education: Providing Realistic and Adaptive Skills for Early-Career Scientists. *Academic Medicine*, **2019**, 94, 213-216 | 3.9 | 4 |
| 152 | Adolescent mental health education InSciEd Out: a case study of an alternative middle school population. *Journal of Translational Medicine*, **2018**, 16, 84 | 8.5 | 13 |
| 151 | Fishing for understanding: Unlocking the zebrafish gene editor's toolbox. *Methods*, **2018**, 150, 3-10 | 4.6 | 18 |
| 150 | Precision gene editing technology and applications in nephrology. *Nature Reviews Nephrology*, **2018**, 14, 663-677 | 14.9 | 24 |
| 149 | deficiency causes a wide tumor spectrum and increases embryonal rhabdomyosarcoma metastasis in zebrafish. *ELife*, **2018**, 7, | 8.9 | 31 |
| 148 | Humidity as a non-pharmaceutical intervention for influenza A. *PLoS ONE*, **2018**, 13, e0204337 | 3.7 | 20 |
| 147 | Robust activation of microhomology-mediated end joining for precision gene editing applications. *PLoS Genetics*, **2018**, 14, e1007652 | 6 | 37 |
| 146 | Disruption of alters endocardial and myocardial fusion during zebrafish cardiac assembly. *Biology Open*, **2017**, 6, 348-357 | 2.2 | 9 |
| 145 | Guidelines for morpholino use in zebrafish. *PLoS Genetics*, **2017**, 13, e1007000 | 6 | 190 |
| 144 | TALEN-Mediated Mutagenesis and Genome Editing. *Methods in Molecular Biology*, **2016**, 1451, 17-30 | 1.4 | 17 |
| 143 | Silent Tyrosinemia Type I Without Elevated Tyrosine or Succinylacetone Associated with Liver Cirrhosis and Hepatocellular Carcinoma. *Human Mutation*, **2016**, 37, 1097-105 | 4.7 | 17 |
| 142 | Students being and becoming scientists: measured success in a novel science education partnership. *Palgrave Communications*, **2016**, 2, | 5.3 | 6 |
| 141 | ssDNA and the Argonautes: The Quest for the Next Golden Editor. *Human Gene Therapy*, **2016**, 27, 419-22 | 4.8 | 4 |
| 140 | Activation of P-TEFb by Androgen Receptor-Regulated Enhancer RNAs in Castration-Resistant Prostate Cancer. *Cell Reports*, **2016**, 15, 599-610 | 10.6 | 65 |

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| 139 | Active recombinant Tol2 transposase for gene transfer and gene discovery applications. *Mobile DNA*, **2016**, 7, 6 | 4.4 | 15 |
| 138 | Universal Healthcare for Zebrafish. *Zebrafish*, **2016**, 13 Suppl 1, S1-4 | 2 | 2 |
| 137 | FusX: A Rapid One-Step Transcription Activator-Like Effector Assembly System for Genome Science. *Human Gene Therapy*, **2016**, 27, 451-63 | 4.8 | 33 |
| 136 | Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. *Nature Biotechnology*, **2016**, 35, 17-18 | 44.5 | 35 |
| 135 | A modifier screen identifies as a cardiomyopathy susceptibility gene. *JCI Insight*, **2016**, 1, | 9.9 | 28 |
| 134 | Mayo Clinic Zebrafish Facility Overview. *Zebrafish*, **2016**, 13 Suppl 1, S44-6 | 2 | 6 |
| 133 | GoldyTALEN Vectors with Improved Efficiency for Golden Gate TALEN Assembly. *Human Gene Therapy*, **2016**, 27, 423-4 | 4.8 | 3 |
| 132 | The zebrafish genome editing toolkit. *Methods in Cell Biology*, **2016**, 135, 149-70 | 1.8 | 19 |
| 131 | Using engineered endonucleases to create knockout and knockin zebrafish models. *Methods in Molecular Biology*, **2015**, 1239, 291-305 | 1.4 | 21 |
| 130 | Etv2 and fli1b function together as key regulators of vasculogenesis and angiogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 865-76 | 9.4 | 44 |
| 129 | RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. *Journal of Cell Science*, **2015**, 128, 3556-68 | 5.3 | 26 |
| 128 | Protein-Trap Insertional Mutagenesis Uncovers New Genes Involved in Zebrafish Skin Development, Including a Neuregulin 2a-Based ErbB Signaling Pathway Required during Median Fin Fold Morphogenesis. *PLoS ONE*, **2015**, 10, e0130688 | 3.7 | 12 |
| 127 | RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. *Development (Cambridge)*, **2015**, 142, e1.1-e1.1 | 6.6 | |
| 126 | TALEN knockout of the PSIP1 gene in human cells: analyses of HIV-1 replication and allosteric integrase inhibitor mechanism. *Journal of Virology*, **2014**, 88, 9704-17 | 6.6 | 59 |
| 125 | Detection of 1,25-dihydroxyvitamin D-regulated miRNAs in zebrafish by whole transcriptome sequencing. *Zebrafish*, **2014**, 11, 207-18 | 2 | 12 |
| 124 | Influenza knowledge, attitude, and behavior survey for grade school students: design and novel assessment methodology. *Journal of Community Health*, **2014**, 39, 1231-40 | 4 | 1 |
| 123 | In vivo orientation of single myosin lever arms in zebrafish skeletal muscle. *Biophysical Journal*, **2014**, 107, 1403-14 | 2.9 | 6 |
| 122 | TALEN-mediated genetic tailoring as a tool to analyze the function of acquired mutations in multiple myeloma cells. *Blood Cancer Journal*, **2014**, 4, e210 | 7 | 10 |

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|---|---|---|---|
| 121 | The Zebrafish GenomeWiki: a crowdsourcing approach to connect the long tail for zebrafish gene annotation. *Database: the Journal of Biological Databases and Curation*, **2014**, 2014, bau011 | 5 | 7 |
| 120 | Making designer mutants in model organisms. *Development (Cambridge)*, **2014**, 141, 4042-54 | 6.6 | 90 |
| 119 | Functions of flt3 in zebrafish hematopoiesis and its relevance to human acute myeloid leukemia. *Blood*, **2014**, 123, 2518-29 | 2.2 | 37 |
| 118 | Larval zebrafish model for FDA-approved drug repositioning for tobacco dependence treatment. *PLoS ONE*, **2014**, 9, e90467 | 3.7 | 34 |
| 117 | Mojo Hand, a TALEN design tool for genome editing applications. *BMC Bioinformatics*, **2013**, 14, 1 | 3.6 | 332 |
| 116 | Predictors of indoor absolute humidity and estimated effects on influenza virus survival in grade schools. *BMC Infectious Diseases*, **2013**, 13, 71 | 4 | 31 |
| 115 | New and TALENted genome engineering toolbox. *Circulation Research*, **2013**, 113, 571-87 | 15.7 | 43 |
| 114 | The zebrafish as a model to study polycystic liver disease. *Zebrafish*, **2013**, 10, 211-7 | 2 | 16 |
| 113 | A novel role of BMP4 in adult hematopoietic stem and progenitor cell homing via Smad independent regulation of integrin-4 expression. *Blood*, **2013**, 121, 781-90 | 2.2 | 30 |
| 112 | A sequence-based variation map of zebrafish. *Zebrafish*, **2013**, 10, 15-20 | 2 | 37 |
| 111 | The CRISPR system--keeping zebrafish gene targeting fresh. *Zebrafish*, **2013**, 10, 116-8 | 2 | 77 |
| 110 | Trapping cardiac recessive mutants via expression-based insertional mutagenesis screening. *Circulation Research*, **2013**, 112, 606-17 | 15.7 | 35 |
| 109 | High efficiency In Vivo genome engineering with a simplified 15-RVD GoldyTALEN design. *PLoS ONE*, **2013**, 8, e65259 | 3.7 | 46 |
| 108 | Primary neuron culture for nerve growth and axon guidance studies in zebrafish (Danio rerio). *PLoS ONE*, **2013**, 8, e57539 | 3.7 | 29 |
| 107 | Revealing the role of phospholipase C3 in the regulation of VEGF-induced vascular permeability. *Blood*, **2012**, 120, 2167-73 | 2.2 | 28 |
| 106 | Tol2 gene trap integrations in the zebrafish amyloid precursor protein genes appa and aplp2 reveal accumulation of secreted APP at the embryonic veins. *Developmental Dynamics*, **2012**, 241, 415-25 | 2.9 | 20 |
| 105 | Zebrafish and Drug Development: A Behavioral Assay System for Probing Nicotine Function in Larval Zebrafish. *Neuromethods*, **2012**, 53-70 | 0.4 | 2 |
| 104 | In vivo genome editing using a high-efficiency TALEN system. *Nature*, **2012**, 491, 114-8 | 50.4 | 744 |

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| 103 | Functional analysis of slow myosin heavy chain 1 and myomesin-3 in sarcomere organization in zebrafish embryonic slow muscles. *Journal of Genetics and Genomics*, **2012**, 39, 69-80 | 4 | 22 |
| 102 | An in vivo method to quantify lymphangiogenesis in zebrafish. *PLoS ONE*, **2012**, 7, e45240 | 3.7 | 6 |
| 101 | Zebrafish: a model for the study of addiction genetics. *Human Genetics*, **2012**, 131, 977-1008 | 6.3 | 85 |
| 100 | Expression of sclerostin in the developing zebrafish (Danio rerio) brain and skeleton. *Gene Expression Patterns*, **2012**, 12, 228-35 | 1.5 | 7 |
| 99 | The lineage-specific gene ponzr1 is essential for zebrafish pronephric and pharyngeal arch development. *Development (Cambridge)*, **2012**, 139, 793-804 | 6.6 | 23 |
| 98 | Research resource: whole transcriptome RNA sequencing detects multiple 1,25-dihydroxyvitamin D(3)-sensitive metabolic pathways in developing zebrafish. *Molecular Endocrinology*, **2012**, 26, 1630-42 | | 33 |
| 97 | Improvement in student science proficiency through InSciEd out. *Zebrafish*, **2012**, 9, 155-68 | 2 | 12 |
| 96 | zfishbook: connecting you to a world of zebrafish revertible mutants. *Nucleic Acids Research*, **2012**, 40, D907-11 | 20.1 | 21 |
| 95 | TGF1-induced Baf60c regulates both smooth muscle cell commitment and quiescence. *PLoS ONE*, **2012**, 7, e47629 | 3.7 | 8 |
| 94 | A TALE of two nucleases: gene targeting for the masses?. *Zebrafish*, **2011**, 8, 147-9 | 2 | 58 |
| 93 | Transgenic zebrafish using transposable elements. *Methods in Cell Biology*, **2011**, 104, 137-49 | 1.8 | 52 |
| 92 | Stressing zebrafish for behavioral genetics. *Reviews in the Neurosciences*, **2011**, 22, 49-62 | 4.7 | 62 |
| 91 | Methionine aminopeptidase 2 is required for HSC initiation and proliferation. *Blood*, **2011**, 118, 5448-57 | 2.2 | 18 |
| 90 | In vivo protein trapping produces a functional expression codex of the vertebrate proteome. *Nature Methods*, **2011**, 8, 506-15 | 21.6 | 143 |
| 89 | Maintenance of HSC by Wnt5a secreting AGM-derived stromal cell line. *Experimental Hematology*, **2011**, 39, 114-123.e1-5 | 3.1 | 29 |
| 88 | Expression analysis of PAC1-R and PACAP genes in zebrafish embryos. *Journal of Molecular Neuroscience*, **2011**, 43, 94-100 | 3.3 | 7 |
| 87 | Haploinsufficiency of target of rapamycin attenuates cardiomyopathies in adult zebrafish. *Circulation Research*, **2011**, 109, 658-69 | 15.7 | 90 |
| 86 | Zebrafish for the study of the biological effects of nicotine. *Nicotine and Tobacco Research*, **2011**, 13, 301-12 | 4.9 | 50 |

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| 85 | Lessons from morpholino-based screening in zebrafish. *Briefings in Functional Genomics*, **2011**, 10, 181-8 | 4.9 | 114 |
| 84 | Moesin1 and Ve-cadherin are required in endothelial cells during in vivo tubulogenesis. *Development (Cambridge)*, **2010**, 137, 3119-28 | 6.6 | 142 |
| 83 | Liver xeno-repopulation with human hepatocytes in Fah-/-Rag2-/- mice after pharmacological immunosuppression. *American Journal of Pathology*, **2010**, 177, 1311-9 | 5.8 | 40 |
| 82 | Gene transfer efficiency and genome-wide integration profiling of Sleeping Beauty, Tol2, and piggyBac transposons in human primary T cells. *Molecular Therapy*, **2010**, 18, 1803-13 | 11.7 | 137 |
| 81 | SCORE imaging: specimen in a corrected optical rotational enclosure. *Zebrafish*, **2010**, 7, 149-54 | 2 | 46 |
| 80 | WNT5A mutations in patients with autosomal dominant Robinow syndrome. *Developmental Dynamics*, **2010**, 239, 327-37 | 2.9 | 171 |
| 79 | Efficient transposition of Tol2 in the mouse germline. *Genetics*, **2009**, 183, 1565-73 | 4 | 30 |
| 78 | A primer for morpholino use in zebrafish. *Zebrafish*, **2009**, 6, 69-77 | 2 | 333 |
| 77 | Nicotine response genetics in the zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18662-7 | 11.5 | 104 |
| 76 | Crosslinked, Glassy Styrenic Surfactants Stabilize Quantum Dots Against Environmental Extremes. *Journal of Materials Chemistry*, **2009**, 19, 6324-6327 | | 17 |
| 75 | The ins and outs of VEGF signaling. *Blood*, **2009**, 113, 2123-4 | 2.2 | 3 |
| 74 | A PATO-compliant zebrafish screening database (MODB): management of morpholino knockdown screen information. *BMC Bioinformatics*, **2008**, 9, 7 | 3.6 | 15 |
| 73 | Zinc finger-based knockout punches for zebrafish genes. *Zebrafish*, **2008**, 5, 121-3 | 2 | 69 |
| 72 | Transposon tools hopping in vertebrates. *Briefings in Functional Genomics & Proteomics*, **2008**, 7, 444-53 | | 20 |
| 71 | Research implications of pigment biology in zebrafish. *Zebrafish*, **2008**, 5, 233-5 | 2 | 1 |
| 70 | Down on the (fish) farm. *Zebrafish*, **2008**, 5, 139-40 | 2 | |
| 69 | The three musketeers of HSC development. *Blood*, **2008**, 111, 4834-5 | 2.2 | |
| 68 | A facile method for somatic, lifelong manipulation of multiple genes in the mouse liver. *Hepatology*, **2008**, 47, 1714-24 | 11.2 | 43 |

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|---|---|---|---|
| 67 | Development and Notch signaling requirements of the zebrafish choroid plexus. *PLoS ONE*, **2008**, 3, e3114 | 3.7 | 35 |
| 66 | Neuropilin-1 modulates p53/caspases axis to promote endothelial cell survival. *PLoS ONE*, **2007**, 2, e1161 | 3.7 | 55 |
| 65 | Genetic determinants of hyaloid and retinal vasculature in zebrafish. *BMC Developmental Biology*, **2007**, 7, 114 | 3.1 | 105 |
| 64 | p53 activation by knockdown technologies. *PLoS Genetics*, **2007**, 3, e78 | 6 | 810 |
| 63 | Wnt5a is required for cardiac outflow tract septation in mice. *Pediatric Research*, **2007**, 61, 386-91 | 3.2 | 94 |
| 62 | Messenger RNA as a source of transposase for sleeping beauty transposon-mediated correction of hereditary tyrosinemia type I. *Molecular Therapy*, **2007**, 15, 1280-7 | 11.7 | 61 |
| 61 | Zebrafish genome project: bringing new biology to the vertebrate genome field. *Zebrafish*, **2007**, 4, 239-51 | 2 | 14 |
| 60 | The transcription factors Scl and Lmo2 act together during development of the hemangioblast in zebrafish. *Blood*, **2007**, 109, 2389-98 | 2.2 | 116 |
| 59 | Insertional mutagenesis strategies in zebrafish. *Genome Biology*, **2007**, 8 Suppl 1, S9 | 18.3 | 48 |
| 58 | Regulation of primitive hematopoiesis in zebrafish embryos by the death receptor gene. *Experimental Hematology*, **2006**, 34, 27-34 | 3.1 | 20 |
| 57 | Harnessing a high cargo-capacity transposon for genetic applications in vertebrates. *PLoS Genetics*, **2006**, 2, e169 | 6 | 233 |
| 56 | Gene-breaking transposon mutagenesis reveals an essential role for histone H2afza in zebrafish larval development. *Mechanisms of Development*, **2006**, 123, 513-29 | 1.7 | 94 |
| 55 | Syndecan-2. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 152-6 | 5.6 | 73 |
| 54 | Genome-wide reverse genetics framework to identify novel functions of the vertebrate secretome. *PLoS ONE*, **2006**, 1, e104 | 3.7 | 63 |
| 53 | Functional analysis of zebrafish microfibril-associated glycoprotein-1 (Magp1) in vivo reveals roles for microfibrils in vascular development and function. *Blood*, **2006**, 107, 4364-74 | 2.2 | 40 |
| 52 | AMOD: a morpholino oligonucleotide selection tool. *Nucleic Acids Research*, **2005**, 33, W506-11 | 20.1 | 10 |
| 51 | Dynamic gene expression after systemic delivery of plasmid DNA as determined by in vivo bioluminescence imaging. *Human Gene Therapy*, **2005**, 16, 1325-32 | 4.8 | 38 |
| 50 | Characterization of expanded intermediate cell mass in zebrafish chordin morphant embryos. *Developmental Biology*, **2005**, 277, 235-54 | 3.1 | 40 |

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| 49 | A unique role for 6-O sulfation modification in zebrafish vascular development. *Developmental Biology*, **2005**, 284, 364-76 | 3.1 | 74 |
| 48 | VEGF, sunburn, and wrinkles. *Blood*, **2005**, 105, 2246-2246 | 2.2 | |
| 47 | Wnt5 signaling in vertebrate pancreas development. *BMC Biology*, **2005**, 3, 23 | 7.3 | 71 |
| 46 | Functional analysis of human hematopoietic stem cell gene expression using zebrafish. *PLoS Biology*, **2005**, 3, e254 | 9.7 | 86 |
| 45 | Trapping fish genes with transposons. *Zebrafish*, **2005**, 1, 335-41 | 2 | 20 |
| 44 | Sleeping beauty transposon-mediated gene therapy for prolonged expression. *Advances in Genetics* , **2005**, 54, 189-232 | 3.3 | 111 |
| 43 | Combinatorial antiangiogenic gene therapy by nonviral gene transfer using the sleeping beauty transposon causes tumor regression and improves survival in mice bearing intracranial human glioblastoma. *Molecular Therapy*, **2005**, 12, 778-88 | 11.7 | 112 |
| 42 | Identifying secretomes in people, pufferfish and pigs. *Nucleic Acids Research*, **2004**, 32, 1414-21 | 20.1 | 36 |
| 41 | Sleeping Beauty transposon for efficient gene delivery. *Methods in Cell Biology*, **2004**, 77, 349-62 | 1.8 | 23 |
| 40 | Functional genomics tools for the analysis of zebrafish pigment. *Pigment Cell & Melanoma Research*, **2004**, 17, 461-70 | | 34 |
| 39 | Enhancer trapping in zebrafish using the Sleeping Beauty transposon. *BMC Genomics*, **2004**, 5, 62 | 4.5 | 135 |
| 38 | Expression of VE-cadherin in zebrafish embryos: a new tool to evaluate vascular development. *Developmental Dynamics*, **2004**, 231, 204-13 | 2.9 | 76 |
| 37 | Gene Knockdown Approaches Using Unconventional Antisense Oligonucleotides. *Molecular Aspects of Fish and Marine Biology*, **2004**, 454-475 | | 1 |
| 36 | Applications of Transposable Elements in Fish for Transgenesis and Functional Genomics. *Molecular Aspects of Fish and Marine Biology*, **2004**, 532-580 | | 1 |
| 35 | Syndecan-2 is essential for angiogenic sprouting during zebrafish development. *Blood*, **2004**, 103, 1710-9 | 2.2 | 128 |
| 34 | Nonconventional antisense in zebrafish for functional genomics applications. *Methods in Cell Biology*, **2004**, 77, 121-36 | 1.8 | 22 |
| 33 | Zebrafish as a genomics research model. *Current Pharmaceutical Biotechnology*, **2004**, 5, 409-13 | 2.6 | 72 |
| 32 | The Role of Sprouty Family Members in Hematopiesis in Zebrafish and Mammals.. *Blood*, **2004**, 104, 137-137 | 11.7 | 2 |

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| 31 | Functional Analysis of the Differential Gene Expression Profile of Human HSC Using a Functional Genomics Screen in the Zebrafish.. *Blood*, **2004**, 104, 136-136 | 2.2 | 1 |
| 30 | Efficient gene delivery and gene expression in zebrafish using the Sleeping Beauty transposon. *Developmental Biology*, **2003**, 263, 191-202 | 3.1 | 201 |
| 29 | Mammalian germ-line transgenesis by transposition. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4495-9 | 11.5 | 183 |
| 28 | Lateral line, nervous system, and maternal expression of Frizzled 7a during zebrafish embryogenesis. *Mechanisms of Development*, **2002**, 115, 107-11 | 1.7 | 15 |
| 27 | Morphant technology in model developmental systems. *Genesis*, **2001**, 30, 89-93 | 1.9 | 215 |
| 26 | Zebrafish frizzled-2 morphant displays defects in body axis elongation. *Genesis*, **2001**, 30, 114-8 | 1.9 | 37 |
| 25 | Xenopus frizzled-7 morphant displays defects in dorsoventral patterning and convergent extension movements during gastrulation. *Genesis*, **2001**, 30, 119-22 | 1.9 | 39 |
| 24 | Target selection for Danio rerio functional genomics. *Genesis*, **2001**, 30, 123-5 | 1.9 | 10 |
| 23 | Floor plate develops upon depletion of tiggy-winkle and sonic hedgehog. *Genesis*, **2001**, 30, 164-9 | 1.9 | 31 |
| 22 | Sonic hedgehog and tiggy-winkle hedgehog cooperatively induce zebrafish branchiomotor neurons. *Genesis*, **2001**, 30, 170-4 | 1.9 | 14 |
| 21 | Twisted gastrulation is a conserved extracellular BMP antagonist. *Nature*, **2001**, 410, 479-83 | 50.4 | 243 |
| 20 | Xenopus frizzled-5: a frizzled family member expressed exclusively in the neural retina of the developing eye. *Mechanisms of Development*, **2001**, 103, 133-6 | 1.7 | 20 |
| 19 | Three-color imaging using fluorescent proteins in living zebrafish embryos. *BioTechniques*, **2001**, 31, 66-70, 72 | 2.5 | 62 |
| 18 | Distinct requirements for zebrafish angiogenesis revealed by a VEGF-A morphant. *Yeast*, **2000**, 17, 294-301 | 3.4 | 195 |
| 17 | Morphants: a new systematic vertebrate functional genomics approach. *Yeast*, **2000**, 17, 302-306 | 3.4 | 126 |
| 16 | Effective targeted gene 'knockdown' in zebrafish. *Nature Genetics*, **2000**, 26, 216-20 | 36.3 | 2145 |
| 15 | Sequence, expression, and location of zebrafish frizzled 10. *Mechanisms of Development*, **2000**, 92, 311-4 | 1.7 | 14 |
| 14 | Morphants: A New Systematic Vertebrate Functional Genomics Approach. *Yeast*, **2000**, 1, 302-306 | 3.4 | 9 |

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|---|---|---|---|
| 13 | Vectors and techniques for ectopic gene expression in zebrafish. *Methods in Cell Biology*, **1999**, 59, 117-26 | 68 | 72 |
| 12 | Hedgehog patterning activity: role of a lipophilic modification mediated by the carboxy-terminal autoprocessing domain. *Cell*, **1996**, 86, 21-34 | 56.2 | 444 |
| 11 | The product of hedgehog autoproteolytic cleavage active in local and long-range signalling. *Nature*, **1995**, 374, 363-6 | 50.4 | 447 |
| 10 | Patterning activities of vertebrate hedgehog proteins in the developing eye and brain. *Current Biology*, **1995**, 5, 944-55 | 6.3 | 507 |
| 9 | Autoproteolysis in hedgehog protein biogenesis. *Science*, **1994**, 266, 1528-37 | 33.3 | 471 |
| 8 | MMEJ-based Precision Gene Editing for applications in Gene Therapy and Functional Genomics | | 1 |
| 7 | Humidity as a non-pharmaceutical intervention for influenza A | | 1 |
| 6 | Engineering targeted deletions in the mitochondrial genome | | 2 |
| 5 | Toward Precision Molecular Surgery: Robust, Selective Induction of Microhomology-mediated End Joining in vivo | | 1 |
| 4 | GeneWeld: a method for efficient targeted integration directed by short homology | | 4 |
| 3 | A primer genetic toolkit for exploring mitochondrial biology and disease using zebrafish | | 2 |
| 2 | The FusX TALE Base Editor (FusXTBE) for rapid mitochondrial DNA programming of human cells in vitro and zebrafish disease models in vivo | | 2 |
| 1 | Imaging cytoplasmic lipid droplets in vivo with fluorescent perilipin 2 and perilipin 3 knockin zebrafish | | 1 |