

Anil K Challa

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

517
citations

623734

14
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased trabecular bone and improved biomechanics in an osteocalcin null rat model created by CRISPR/Cas9 technology. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 1169-1179.	2.4	66
2	Identification and characterization of roundabout orthologs in zebrafish. <i>Mechanisms of Development</i> , 2001, 101, 249-253.	1.7	55
3	Enhanced Keap1-Nrf2 signaling protects the myocardium from isoproterenol-induced pathological remodeling in mice. <i>Redox Biology</i> , 2019, 27, 101212.	9.0	54
4	Caffeine-Induced Effects on Heart Rate in Zebrafish Embryos and Possible Mechanisms of Action: An Effective System for Experiments in Chemical Biology. <i>Zebrafish</i> , 2010, 7, 69-81.	1.1	45
5	NF1 deficiency correlates with estrogen receptor signaling and diminished survival in breast cancer. <i>Npj Breast Cancer</i> , 2018, 4, 29.	5.2	42
6	Mutation of Growth Arrest Specific 8 Reveals a Role in Motile Cilia Function and Human Disease. <i>PLoS Genetics</i> , 2016, 12, e1006220.	3.5	33
7	Novel Hypomorphic Alleles of the Mouse Tyrosinase Gene Induced by CRISPR-Cas9 Nucleases Cause Non-Albino Pigmentation Phenotypes. <i>PLoS ONE</i> , 2016, 11, e0155812.	2.5	28
8	9-O-Acetylation of Exogenously Added Ganglioside GD3. <i>Journal of Biological Chemistry</i> , 2006, 281, 7825-7833.	3.4	27
9	Robo3 isoforms have distinct roles during zebrafish development. <i>Mechanisms of Development</i> , 2005, 122, 1073-1086.	1.7	23
10	First Year Course-Based Undergraduate Research Experience (CURE) Using the CRISPR/Cas9 Genome Engineering Technology in Zebrafish. <i>Journal of Microbiology and Biology Education</i> , 2018, 19, .	1.0	21
11	Conservation and Early Expression of Zebrafish Tyrosine Kinases Support the Utility of Zebrafish as a Model for Tyrosine Kinase Biology. <i>Zebrafish</i> , 2013, 10, 264-274.	1.1	18
12	Exercise Mediated Nrf2 Signaling Protects the Myocardium From Isoproterenol-Induced Pathological Remodeling. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 68.	2.4	18
13	A mixing heteroduplex mobility assay (mHMA) to genotype homozygous mutants with small indels generated by CRISPR-Cas9 nucleases. <i>MethodsX</i> , 2019, 6, 1-5.	1.6	18
14	Truncating <i>PKHD1</i> and <i>PKD2</i> mutations alter energy metabolism. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F414-F425.	2.7	16
15	Analysis of novel domain-specific mutations in the zebrafish <i>ndr2/cyclops</i> gene generated using CRISPR-Cas9 RNPs. <i>Journal of Genetics</i> , 2018, 97, 1315-1325.	0.7	11
16	Teleological Role of L-2-Hydroxyglutarate Dehydrogenase in the Kidney. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	8
17	Student Perceptions of Authoring a Publication Stemming from a Course-Based Undergraduate Research Experience (CURE). <i>CBE Life Sciences Education</i> , 2021, 20, ar46.	2.3	8
18	Analysis of novel domain-specific mutations in the zebrafish <i>ndr2/cyclops</i> gene generated using CRISPR-Cas9 RNPs. <i>Journal of Genetics</i> , 2018, 97, 1315-1325.	0.7	8

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19	Physiological and metabolic characteristics of novel double mutant female mice with targeted disruption of both growth hormone-releasing hormone and growth hormone receptor. <i>Aging Cell</i> , 2021, 20, e13339.	6.7	6
20	Integrating CRISPR-Cas9 Technology into Undergraduate Courses: Perspectives from a National Science Foundation (NSF) Workshop for Undergraduate Faculty, June 2018. <i>Journal of Microbiology and Biology Education</i> , 2019, 20, 10.	1.0	3
21	Validation of gene editing efficiency with CRISPR-Cas9 system directly in rat zygotes using electroporation mediated delivery and embryo culture. <i>MethodsX</i> , 2021, 8, 101419.	1.6	3
22	Generation of a GLO-2 deficient mouse reveals its effects on liver carbonyl and glutathione levels. <i>Biochemistry and Biophysics Reports</i> , 2021, 28, 101138.	1.3	3
23	NextGenVOICES. <i>Science</i> , 2013, 340, 28-30.	12.6	1
24	Zebrafish Tumor Graft Transplantation to Grow Tumors In Vivo That Engraft Poorly as Single Cell Suspensions. <i>Zebrafish</i> , 2021, 18, 293-296.	1.1	1