

Gerald Schwank

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

5,782
citations

257450

24
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

9050
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Repair of CFTR by CRISPR/Cas9 in Intestinal Stem Cell Organoids of Cystic Fibrosis Patients. <i>Cell Stem Cell</i> , 2013, 13, 653-658.	11.1	1,149
2	Sequential cancer mutations in cultured human intestinal stem cells. <i>Nature</i> , 2015, 521, 43-47.	27.8	853
3	Tissue-specific mutation accumulation in human adult stem cells during life. <i>Nature</i> , 2016, 538, 260-264.	27.8	759
4	Auxin Triggers Transient Local Signaling for Cell Specification in Arabidopsis Embryogenesis. <i>Developmental Cell</i> , 2006, 10, 265-270.	7.0	303
5	Treatment of a metabolic liver disease by in vivo genome base editing in adult mice. <i>Nature Medicine</i> , 2018, 24, 1519-1525.	30.7	301
6	Organoid Models of Human Liver Cancers Derived from Tumor Needle Biopsies. <i>Cell Reports</i> , 2018, 24, 1363-1376.	6.4	288
7	High-throughput automated organoid culture via stem-cell aggregation in microcavity arrays. <i>Nature Biomedical Engineering</i> , 2020, 4, 863-874.	22.5	231
8	Paneth cell extrusion and release of antimicrobial products is directly controlled by immune cell-derived IFN- γ . <i>Journal of Experimental Medicine</i> , 2014, 211, 1393-1405.	8.5	225
9	Growth of Epithelial Organoids in a Defined Hydrogel. <i>Advanced Materials</i> , 2018, 30, e1801621.	21.0	200
10	In vivo adenine base editing of PCSK9 in macaques reduces LDL cholesterol levels. <i>Nature Biotechnology</i> , 2021, 39, 949-957.	17.5	196
11	Advances in therapeutic CRISPR/Cas9 genome editing. <i>Translational Research</i> , 2016, 168, 15-21.	5.0	176
12	Covalent linkage of the DNA repair template to the CRISPR-Cas9 nuclease enhances homology-directed repair. <i>ELife</i> , 2018, 7, .	6.0	127
13	Regulation of Organ Growth by Morphogen Gradients. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a001669-a001669.	5.5	112
14	Genome-Scale CRISPR Screening in Human Intestinal Organoids Identifies Drivers of TGF- β Resistance. <i>Cell Stem Cell</i> , 2020, 26, 431-440.e8.	11.1	103
15	Growth regulation by Dpp: an essential role for Brinker and a non-essential role for graded signaling levels. <i>Development (Cambridge)</i> , 2008, 135, 4003-4013.	2.5	102
16	Generation of BAC Transgenic Epithelial Organoids. <i>PLoS ONE</i> , 2013, 8, e76871.	2.5	85
17	Formation of the Long Range Dpp Morphogen Gradient. <i>PLoS Biology</i> , 2011, 9, e1001111.	5.6	75
18	In vivo prime editing of a metabolic liver disease in mice. <i>Science Translational Medicine</i> , 2022, 14, eab19238.	12.4	71

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19	Antagonistic Growth Regulation by Dpp and Fat Drives Uniform Cell Proliferation. <i>Developmental Cell</i> , 2011, 20, 123-130.	7.0	69
20	In vivo cytidine base editing of hepatocytes without detectable off-target mutations in RNA and DNA. <i>Nature Biomedical Engineering</i> , 2021, 5, 179-189.	22.5	62
21	Comment on "Dynamics of Dpp Signaling and Proliferation Control". <i>Science</i> , 2012, 335, 401-401.	12.6	41
22	Predicting base editing outcomes with an attention-based deep learning algorithm trained on high-throughput target library screens. <i>Nature Communications</i> , 2021, 12, 5114.	12.8	36
23	CRISPR/Cas9-Mediated Genome Editing of Mouse Small Intestinal Organoids. <i>Methods in Molecular Biology</i> , 2016, 1422, 3-11.	0.9	31
24	State-of-the-Art 2019 on Gene Therapy for Phenylketonuria. <i>Human Gene Therapy</i> , 2019, 30, 1274-1283.	2.7	29
25	Germ-free and microbiota-associated mice yield small intestinal epithelial organoids with equivalent and robust transcriptome/proteome expression phenotypes. <i>Cellular Microbiology</i> , 2020, 22, e13191.	2.1	26
26	Drug screening and genome editing in human pancreatic cancer organoids identifies drug-gene interactions and candidates for off-label therapy. <i>Cell Genomics</i> , 2022, 2, 100095.	6.5	26
27	Loss of Rnf31 and Vps4b sensitizes pancreatic cancer to T cell-mediated killing. <i>Nature Communications</i> , 2022, 13, 1804.	12.8	26
28	miR-802 Suppresses Acinar-to-Ductal Reprogramming During Early Pancreatitis and Pancreatic Carcinogenesis. <i>Gastroenterology</i> , 2022, 162, 269-284.	1.3	24
29	miR-802 regulates Paneth cell function and enterocyte differentiation in the mouse small intestine. <i>Nature Communications</i> , 2021, 12, 3339.	12.8	16
30	In vitro Generation of CRISPR-Cas9 Complexes with Covalently Bound Repair Templates for Genome Editing in Mammalian Cells. <i>Bio-protocol</i> , 2019, 9, .	0.4	13
31	Replacing the SpCas9 HNH domain by deaminases generates compact base editors with an alternative targeting scope. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 502-510.	5.1	7
32	Identification of HIF-dependent alternative splicing in gastrointestinal cancers and characterization of a long, coding isoform of SLC35A3. <i>Genomics</i> , 2021, 113, 515-529.	2.9	4
33	In vivo targeting of a variant causing vanishing white matter using CRISPR/Cas9. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 25, 17-25.	4.1	2
34	CRISPR-Based Screening in Three-Dimensional Organoid Cultures to Identify TGF- β 2 Pathway Regulators. <i>Methods in Molecular Biology</i> , 2022, 2488, 99-111.	0.9	2