

Xiling Shen

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,463
citations

126907

33
h-index

118850

62
g-index

88
all docs

88
docs citations

88
times ranked

7798
citing authors

#	ARTICLE	IF	CITATIONS
1	DAMPs/PAMPs induce monocytic TLR activation and tolerance in COVID-19 patients; nucleic acid binding scavengers can counteract such TLR agonists. <i>Biomaterials</i> , 2022, 283, 121393.	11.4	34
2	Mycobacterial infection aggravates <i>Helicobacter pylori</i> -induced gastric preneoplastic pathology by redirection of de novo induced Treg cells. <i>Cell Reports</i> , 2022, 38, 110359.	6.4	6
3	Epigenetic basis of oncogenic-Kras-mediated epithelial-cellular proliferation and plasticity. <i>Developmental Cell</i> , 2022, 57, 310-328.e9.	7.0	6
4	Slow nucleosome dynamics set the transcriptional speed limit and induce RNA polymerase II traffic jams and bursts. <i>PLoS Computational Biology</i> , 2022, 18, e1009811.	3.2	7
5	Patient-derived micro-organospheres enable clinical precision oncology. <i>Cell Stem Cell</i> , 2022, 29, 905-917.e6.	11.1	53
6	Real-time whole-brain imaging of hemodynamics and oxygenation at micro-vessel resolution with ultrafast wide-field photoacoustic microscopy. <i>Light: Science and Applications</i> , 2022, 11, 138.	16.6	52
7	G6PD inhibition sensitizes ovarian cancer cells to oxidative stress in the metastatic omental microenvironment. <i>Cell Reports</i> , 2022, 39, 111012.	6.4	12
8	Differential chromatin accessibility in peripheral blood mononuclear cells underlies COVID-19 disease severity prior to seroconversion. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
9	Integrated chromatin and transcriptomic profiling of patient-derived colon cancer organoids identifies personalized drug targets to overcome oxaliplatin resistance. <i>Genes and Diseases</i> , 2021, 8, 203-214.	3.4	10
10	Induced organoids derived from patients with ulcerative colitis recapitulate colitic reactivity. <i>Nature Communications</i> , 2021, 12, 262.	12.8	51
11	The cancer microbiome atlas: a pan-cancer comparative analysis to distinguish tissue-resident microbiota from contaminants. <i>Cell Host and Microbe</i> , 2021, 29, 281-298.e5.	11.0	109
12	Dysregulated transcriptional responses to SARS-CoV-2 in the periphery. <i>Nature Communications</i> , 2021, 12, 1079.	12.8	81
13	The frontier of live tissue imaging across space and time. <i>Cell Stem Cell</i> , 2021, 28, 603-622.	11.1	24
14	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility. <i>Genome Medicine</i> , 2021, 13, 83.	8.2	40
15	Mapping the peripheral nervous system in the whole mouse via compressed sensing tractography. <i>Journal of Neural Engineering</i> , 2021, 18, 044002.	3.5	3
16	Mucosal-associated invariant T α cell responses differ by sex in COVID-19. <i>Med</i> , 2021, 2, 755-772.e5.	4.4	24
17	Living fabrication of functional semi-interpenetrating polymeric materials. <i>Nature Communications</i> , 2021, 12, 3422.	12.8	31
18	Chromatin Remodeling of Colorectal Cancer Liver Metastasis is Mediated by an HGF α PU.1 β DPP4 Axis. <i>Advanced Science</i> , 2021, 8, e2004673.	11.2	14

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19	Promises and challenges of organoid-guided precision medicine. <i>Med</i> , 2021, 2, 1011-1026.	4.4	56
20	Deep learning segmentation of glomeruli on kidney donor frozen sections. <i>Journal of Medical Imaging</i> , 2021, 8, 067501.	1.5	6
21	The ALPK1/TIFA/NF- κ B axis links a bacterial carcinogen to R-loop-induced replication stress. <i>Nature Communications</i> , 2020, 11, 5117.	12.8	67
22	A Tissue Engineering Approach to Metastatic Colon Cancer. <i>IScience</i> , 2020, 23, 101719.	4.1	15
23	A Precision Medicine Drug Discovery Pipeline Identifies Combined CDK2 and 9 Inhibition as a Novel Therapeutic Strategy in Colorectal Cancer. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 2516-2527.	4.1	17
24	Development of a precision medicine pipeline to identify personalized treatments for colorectal cancer. <i>BMC Cancer</i> , 2020, 20, 592.	2.6	14
25	An imprecise path to precision medicine. <i>Nature Medicine</i> , 2020, 26, 14-14.	30.7	1
26	Intravital imaging of mouse embryos. <i>Science</i> , 2020, 368, 181-186.	12.6	70
27	Single-cell omics analysis reveals functional diversification of hepatocytes during liver regeneration. <i>JCI Insight</i> , 2020, 5, .	5.0	43
28	Single cell transcriptomics of mouse kidney transplants reveals a myeloid cell pathway for transplant rejection. <i>JCI Insight</i> , 2020, 5, .	5.0	30
29	Novel Three-Dimensional Cultures of Patient-Derived Cancer and Tumor Immune Cells. <i>Gastroenterology</i> , 2019, 157, 260-261.	1.3	1
30	Agent-Based Modelling to Delineate Spatiotemporal Control Mechanisms of the Stem Cell Niche. <i>Methods in Molecular Biology</i> , 2019, 1975, 3-35.	0.9	1
31	Mapping the microbial interactome: Statistical and experimental approaches for microbiome network inference. <i>Experimental Biology and Medicine</i> , 2019, 244, 445-458.	2.4	34
32	An intravital window to image the colon in real time. <i>Nature Communications</i> , 2019, 10, 5647.	12.8	25
33	SEN3-mediated host defense response contains HBV replication and restores protein synthesis. <i>PLoS ONE</i> , 2019, 14, e0209179.	2.5	7
34	Exploitation of Synthetic mRNA To Drive Immune Effector Cell Recruitment and Functional Reprogramming In Vivo. <i>Journal of Immunology</i> , 2019, 202, 608-617.	0.8	9
35	Aldolase B-Mediated Fructose Metabolism Drives Metabolic Reprogramming of Colon Cancer Liver Metastasis. <i>Cell Metabolism</i> , 2018, 27, 1249-1262.e4.	16.2	180
36	A Simple Aspect Ratio Dependent Method of Patterning Microwells for Selective Cell Attachment. , 2018, 2018, .		0

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37	Microbiota of Inflammatory Bowel Disease Models. , 2018, 2018, 2374-2377.		4
38	Single-Cell Transcriptomics Reveals Heterogeneity and Drug Response of Human Colorectal Cancer Organoids. , 2018, 2018, 2378-2381.		21
39	Spatial Patterning from an Integrated Wnt/ β -catenin and Notch/Delta Gene Circuit. , 2018, 2018, 5022-5025.		0
40	Opportunities and Challenges for Single-Unit Recordings from Enteric Neurons in Awake Animals. Micromachines, 2018, 9, 428.	2.9	6
41	A gut-brain neural circuit for nutrient sensory transduction. Science, 2018, 361, .	12.6	552
42	Matrix metalloproteinase inhibitors enhance the efficacy of frontline drugs against Mycobacterium tuberculosis. PLoS Pathogens, 2018, 14, e1006974.	4.7	50
43	Radical and lunatic fringes modulate notch ligands to support mammalian intestinal homeostasis. ELife, 2018, 7, .	6.0	23
44	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. Scientific Reports, 2018, 8, 10989.	3.3	24
45	Computational motility models of neurogastroenterology and neuromodulation. Brain Research, 2018, 1693, 174-179.	2.2	6
46	Prometheus revisited. Journal of Clinical Investigation, 2018, 128, 2192-2193.	8.2	7
47	miR-34a is a microRNA safeguard for Citrobacter-induced inflammatory colon oncogenesis. ELife, 2018, 7, .	6.0	25
48	Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3709-E3718.	7.1	208
49	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. Molecular Systems Biology, 2017, 13, 927.	7.2	44
50	Electrical stimulation of gut motility guided by an <i>in silico</i> model. Journal of Neural Engineering, 2017, 14, 066010.	3.5	18
51	The neuropeptide neuromedin U stimulates innate lymphoid cells and type 2 inflammation. Nature, 2017, 549, 282-286.	27.8	400
52	Fucosylation Deficiency in Mice Leads to Colitis and Adenocarcinoma. Gastroenterology, 2017, 152, 193-205.e10.	1.3	48
53	A long non-coding RNA targets microRNA miR-34a to regulate colon cancer stem cell asymmetric division. ELife, 2016, 5, .	6.0	88
54	A recellularized human colon model identifies cancer driver genes. Nature Biotechnology, 2016, 34, 845-851.	17.5	91

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55	Notch signalling regulates asymmetric division and inter-conversion between lgr5 and bmi1 expressing intestinal stem cells. <i>Scientific Reports</i> , 2016, 6, 26069.	3.3	30
56	NOTCH Signaling Regulates Asymmetric Cell Fate of Fast- and Slow-Cycling Colon Cancer-Initiating Cells. <i>Cancer Research</i> , 2016, 76, 3411-3421.	0.9	49
57	Simultaneous optical and electrical in vivo analysis of the enteric nervous system. <i>Nature Communications</i> , 2016, 7, 11800.	12.8	51
58	The Ex Vivo&/em> Culture and Pattern Recognition Receptor Stimulation of Mouse Intestinal Organoids. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
59	Asymmetric division: An antitumor player?. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1164279.	0.7	5
60	A real-time spike classification method based on dynamic time warping for extracellular enteric neural recording with large waveform variability. <i>Journal of Neuroscience Methods</i> , 2016, 261, 97-109.	2.5	16
61	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 144-151.	0.9	12
62	A miR-34a-Numb Feedforward Loop Triggered by Inflammation Regulates Asymmetric Stem Cell Division in Intestine and Colon Cancer. <i>Cell Stem Cell</i> , 2016, 18, 189-202.	11.1	132
63	Targeted drug delivery to circulating tumor cells via platelet membrane-functionalized particles. <i>Biomaterials</i> , 2016, 76, 52-65.	11.4	234
64	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. <i>Nature Biotechnology</i> , 2015, 33, 656-660.	17.5	30
65	miR-1269 promotes metastasis and forms a positive feedback loop with TGF- β 2. <i>Nature Communications</i> , 2015, 6, 6879.	12.8	110
66	IRE1 β is an endogenous substrate of endoplasmic-reticulum-associated degradation. <i>Nature Cell Biology</i> , 2015, 17, 1546-1555.	10.3	173
67	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , 2015, 356, 309-314.	7.2	90
68	A microRNA miR-34a-Regulated Bimodal Switch Targets Notch in Colon Cancer Stem Cells. <i>Cell Stem Cell</i> , 2013, 12, 602-615.	11.1	325
69	Asymmetric division: a marker for cancer stem cells?. <i>Oncotarget</i> , 2013, 4, 950-951.	1.8	35
70	Spatial perturbation with synthetic protein scaffold reveals robustness of asymmetric cell division. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 134-143.	0.4	1
71	Adaptive Models for Gene Networks. <i>PLoS ONE</i> , 2012, 7, e31657.	2.5	10
72	Chemokine 25 α -induced signaling suppresses colon cancer invasion and metastasis. <i>Journal of Clinical Investigation</i> , 2012, 122, 3184-3196.	8.2	67

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73	Frequency Domain Analysis Reveals External Periodic Fluctuations Can Generate Sustained p53 Oscillation. PLoS ONE, 2011, 6, e22852.	2.5	6
74	An essential transcription factor, SciP, enhances robustness of <i>Caulobacter</i> cell cycle regulation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18985-18990.	7.1	68
75	The Class I Hdac Inhibitor Mgcd0103 Induces Cell Cycle Arrest and Apoptosis in Colon Cancer Initiating Cells by Upregulating <i>Dickkopf-1</i> and Non-Canonical <i>Wnt</i> Signaling. Oncotarget, 2010, 1, 596-605.	1.8	54
76	The class I HDAC inhibitor MGCD0103 induces cell cycle arrest and apoptosis in colon cancer initiating cells by upregulating Dickkopf-1 and non-canonical Wnt signaling. Oncotarget, 2010, 1, 596-605.	1.8	36
77	Architecture and inherent robustness of a bacterial cell-cycle control system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11340-11345.	7.1	51
78	Compensation for multimode fiber dispersion by adaptive optics. Optics Letters, 2005, 30, 2985.	3.3	86