

# Xiling Shen

## List of Publications by Year in Descending Order

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**Version:** 2024-04-17

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74  
papers

2,724  
citations

25  
h-index

51  
g-index

88  
ext. papers

3,657  
ext. citations

12.2  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
74	DAMPs/PAMPs induce monocytic TLR activation and tolerance in COVID-19 patients; nucleic acid binding scavengers can counteract such TLR agonists.. <i>Biomaterials</i> , <b>2022</b> , 283, 121393	15.6	5
73	Mycobacterial infection aggravates Helicobacter pylori-induced gastric preneoplastic pathology by redirection of de novo induced Treg cells.. <i>Cell Reports</i> , <b>2022</b> , 38, 110359	10.6	0
72	Epigenetic basis of oncogenic-Kras-mediated epithelial-cellular proliferation and plasticity.. <i>Developmental Cell</i> , <b>2022</b> , 57, 310-328.e9	10.2	1
71	Slow nucleosome dynamics set the transcriptional speed limit and induce RNA polymerase II traffic jams and bursts.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009811	5	2
70	Patient-derived micro-organospheres enable clinical precision oncology.. <i>Cell Stem Cell</i> , <b>2022</b> ,	18	5
69	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> , <b>2022</b> , 11, 138	16.7	3
68	The frontier of live tissue imaging across space and time. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 603-622	18	6
67	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility. <i>Genome Medicine</i> , <b>2021</b> , 13, 83	14.4	8
66	Mucosal-associated invariant T cell responses differ by sex in COVID-19. <i>Med</i> , <b>2021</b> , 2, 755-772.e5	31.7	8
65	Living fabrication of functional semi-interpenetrating polymeric materials. <i>Nature Communications</i> , <b>2021</b> , 12, 3422	17.4	9
64	Integrated chromatin and transcriptomic profiling of patient-derived colon cancer organoids identifies personalized drug targets to overcome oxaliplatin resistance. <i>Genes and Diseases</i> , <b>2021</b> , 8, 203-214	6.6	3
63	Induced organoids derived from patients with ulcerative colitis recapitulate colitic reactivity. <i>Nature Communications</i> , <b>2021</b> , 12, 262	17.4	15
62	The cancer microbiome atlas: a pan-cancer comparative analysis to distinguish tissue-resident microbiota from contaminants. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 281-298.e5	23.4	22
61	Dysregulated transcriptional responses to SARS-CoV-2 in the periphery. <i>Nature Communications</i> , <b>2021</b> , 12, 1079	17.4	25
60	Chromatin Remodeling of Colorectal Cancer Liver Metastasis is Mediated by an HGF-PU.1-DPP4 Axis. <i>Advanced Science</i> , <b>2021</b> , 8, e2004673	13.6	3
59	Promises and Challenges of Organoid-Guided Precision Medicine. <i>Med</i> , <b>2021</b> , 2, 1011-1026	31.7	3
58	Deep learning segmentation of glomeruli on kidney donor frozen sections.. <i>Journal of Medical Imaging</i> , <b>2021</b> , 8, 067501	2.6	0

57	A Tissue Engineering Approach to Metastatic Colon Cancer. <i>IScience</i> , <b>2020</b> , 23, 101719	6.1	6
56	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> , <b>2020</b> , 19, 2516-2527	6.1	6
55	Development of a precision medicine pipeline to identify personalized treatments for colorectal cancer. <i>BMC Cancer</i> , <b>2020</b> , 20, 592	4.8	4
54	Intravital imaging of mouse embryos. <i>Science</i> , <b>2020</b> , 368, 181-186	33.3	33
53	Single-cell omics analysis reveals functional diversification of hepatocytes during liver regeneration. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	11
52	Single cell transcriptomics of mouse kidney transplants reveals a myeloid cell pathway for transplant rejection. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	15
51	Chromatin remodeling in peripheral blood cells reflects COVID-19 symptom severity <b>2020</b> ,		4
50	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility <b>2020</b> ,		19
49	The ALPK1/TIFA/NF- $\kappa$ B axis links a bacterial carcinogen to R-loop-induced replication stress. <i>Nature Communications</i> , <b>2020</b> , 11, 5117	17.4	21
48	Novel Three-Dimensional Cultures of Patient-Derived Cancer and Tumor Immune Cells. <i>Gastroenterology</i> , <b>2019</b> , 157, 260-261	13.3	1
47	Agent-Based Modelling to Delineate Spatiotemporal Control Mechanisms of the Stem Cell Niche. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1975, 3-35	1.4	1
46	Mapping the microbial interactome: Statistical and experimental approaches for microbiome network inference. <i>Experimental Biology and Medicine</i> , <b>2019</b> , 244, 445-458	3.7	13
45	An intravital window to image the colon in real time. <i>Nature Communications</i> , <b>2019</b> , 10, 5647	17.4	13
44	SEN3-mediated host defense response contains HBV replication and restores protein synthesis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0209179	3.7	7
43	Exploitation of Synthetic mRNA To Drive Immune Effector Cell Recruitment and Functional Reprogramming In Vivo. <i>Journal of Immunology</i> , <b>2019</b> , 202, 608-617	5.3	6
42	Aldolase B-Mediated Fructose Metabolism Drives Metabolic Reprogramming of Colon Cancer Liver Metastasis. <i>Cell Metabolism</i> , <b>2018</b> , 27, 1249-1262.e4	24.6	104
41	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. <i>Scientific Reports</i> , <b>2018</b> , 8, 10989	4.9	14
40	Computational motility models of neurogastroenterology and neuromodulation. <i>Brain Research</i> , <b>2018</b> , 1693, 174-179	3.7	5

39	Prometheus revisited. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 2192-2193	15.9	5
38	is a microRNA safeguard for -induced inflammatory colon oncogenesis. <i>ELife</i> , <b>2018</b> , 7,	8.9	16
37	Microbiota of Inflammatory Bowel Disease Models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 2374-2377	0.9	2
36	Single-Cell Transcriptomics Reveals Heterogeneity and Drug Response of Human Colorectal Cancer Organoids. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 2378-2381	0.9	17
35	Spatial Patterning from an Integrated Wnt/ $\beta$ -catenin and Notch/Delta Gene Circuit. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5022-5025	0.9	
34	Opportunities and Challenges for Single-Unit Recordings from Enteric Neurons in Awake Animals. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	4
33	A gut-brain neural circuit for nutrient sensory transduction. <i>Science</i> , <b>2018</b> , 361,	33.3	287
32	Matrix metalloproteinase inhibitors enhance the efficacy of frontline drugs against Mycobacterium tuberculosis. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006974	7.6	34
31	Radical and lunatic fringes modulate notch ligands to support mammalian intestinal homeostasis. <i>ELife</i> , <b>2018</b> , 7,	8.9	12
30	Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3709-E3718	11.5	127
29	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 927	12.2	29
28	Electrical stimulation of gut motility guided by an in silico model. <i>Journal of Neural Engineering</i> , <b>2017</b> , 14, 066010	5	10
27	The neuropeptide neuromedin U stimulates innate lymphoid cells and type 2 inflammation. <i>Nature</i> , <b>2017</b> , 549, 282-286	50.4	282
26	Fucosylation Deficiency in Mice Leads to Colitis and Adenocarcinoma. <i>Gastroenterology</i> , <b>2017</b> , 152, 193-205, e10	29.3	10
25	Simultaneous optical and electrical in vivo analysis of the enteric nervous system. <i>Nature Communications</i> , <b>2016</b> , 7, 11800	17.4	39
24	The Ex Vivo Culture and Pattern Recognition Receptor Stimulation of Mouse Intestinal Organoids. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	3
23	Asymmetric division: An antitumor player?. <i>Molecular and Cellular Oncology</i> , <b>2016</b> , 3, e1164279	1.2	5
22	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> , <b>2016</b> , 261, 97-109	3	11

21	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 144-51	1.3	12
20	A miR-34a-Numb Feedforward Loop Triggered by Inflammation Regulates Asymmetric Stem Cell Division in Intestine and Colon Cancer. <i>Cell Stem Cell</i> , <b>2016</b> , 18, 189-202	18	101
19	Targeted drug delivery to circulating tumor cells via platelet membrane-functionalized particles. <i>Biomaterials</i> , <b>2016</b> , 76, 52-65	15.6	169
18	A long non-coding RNA targets microRNA miR-34a to regulate colon cancer stem cell asymmetric division. <i>ELife</i> , <b>2016</b> , 5,	8.9	69
17	A recellularized human colon model identifies cancer driver genes. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 845-514.5	14.5	67
16	Notch signalling regulates asymmetric division and inter-conversion between lgr5 and bmi1 expressing intestinal stem cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 26069	4.9	20
15	NOTCH Signaling Regulates Asymmetric Cell Fate of Fast- and Slow-Cycling Colon Cancer-Initiating Cells. <i>Cancer Research</i> , <b>2016</b> , 76, 3411-21	10.1	35
14	miR-1269 promotes metastasis and forms a positive feedback loop with TGF- $\beta$ . <i>Nature Communications</i> , <b>2015</b> , 6, 6879	17.4	90
13	IRE1 $\beta$ is an endogenous substrate of endoplasmic-reticulum-associated degradation. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 1546-55	23.4	115
12	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , <b>2015</b> , 356, 309-14	9.9	73
11	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 656-60	44.5	25
10	A microRNA miR-34a-regulated bimodal switch targets Notch in colon cancer stem cells. <i>Cell Stem Cell</i> , <b>2013</b> , 12, 602-15	18	291
9	Spatial perturbation with synthetic protein scaffold reveals robustness of asymmetric cell division. <i>Journal of Biomedical Science and Engineering</i> , <b>2013</b> , 6, 134-143	0.7	1
8	Adaptive models for gene networks. <i>PLoS ONE</i> , <b>2012</b> , 7, e31657	3.7	8
7	Chemokine 25-induced signaling suppresses colon cancer invasion and metastasis. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 3184-96	15.9	60
6	Frequency domain analysis reveals external periodic fluctuations can generate sustained p53 oscillation. <i>PLoS ONE</i> , <b>2011</b> , 6, e22852	3.7	6
5	An essential transcription factor, SciP, enhances robustness of Caulobacter cell cycle regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18985-90	11.5	52
4	The Class I Hdac Inhibitor Mgc0103 Induces Cell Cycle Arrest and Apoptosis in Colon Cancer Initiating Cells by Upregulating Dickkopf-1 and Non-Canonical Wnt Signaling. <i>Oncotarget</i> , <b>2010</b> , 1, 596-605	3.3	48

- 3 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<sup>3,3</sup> 33
- 2 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, 11340-5 11.5 46
- 1 Compensation for multimode fiber dispersion by adaptive optics. *Optics Letters*, **2005**, 30, 2985-7 3 63