Xiling Shen

List of Publications by Citations

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	A microRNA miR-34a-regulated bimodal switch targets Notch in colon cancer stem cells. *Cell Stem Cell*, **2013**, 12, 602-15	18	291
73	A gut-brain neural circuit for nutrient sensory transduction. *Science*, **2018**, 361,	33.3	287
72	The neuropeptide neuromedin U stimulates innate lymphoid cells and type 2 inflammation. *Nature*, **2017**, 549, 282-286	50.4	282
71	Targeted drug delivery to circulating tumor cells via platelet membrane-functionalized particles. *Biomaterials*, **2016**, 76, 52-65	15.6	169
70	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	11.5	127
69	IRE1 is an endogenous substrate of endoplasmic-reticulum-associated degradation. *Nature Cell Biology*, **2015**, 17, 1546-55	23.4	115
68	Aldolase B-Mediated Fructose Metabolism Drives Metabolic Reprogramming of Colon Cancer Liver Metastasis. *Cell Metabolism*, **2018**, 27, 1249-1262.e4	24.6	104
67	A miR-34a-Numb Feedforward Loop Triggered by Inflammation Regulates Asymmetric Stem Cell Division in Intestine and Colon Cancer. *Cell Stem Cell*, **2016**, 18, 189-202	18	101
66	miR-1269 promotes metastasis and forms a positive feedback loop with TGF- *Nature Communications*, **2015**, 6, 6879	17.4	90
65	Epigenetics and cancer metabolism. *Cancer Letters*, **2015**, 356, 309-14	9.9	73
64	A long non-coding RNA targets microRNA miR-34a to regulate colon cancer stem cell asymmetric division. *ELife*, **2016**, 5,	8.9	69
63	A recellularized human colon model identifies cancer driver genes. *Nature Biotechnology*, **2016**, 34, 845-51	44.5	67
62	Compensation for multimode fiber dispersion by adaptive optics. *Optics Letters*, **2005**, 30, 2985-7	3	63
61	Chemokine 25-induced signaling suppresses colon cancer invasion and metastasis. *Journal of Clinical Investigation*, **2012**, 122, 3184-96	15.9	60
60	An essential transcription factor, SciP, enhances robustness of Caulobacter cell cycle regulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18985-90	11.5	52
59	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	3.3	48
58	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

57	Simultaneous optical and electrical in vivo analysis of the enteric nervous system. *Nature Communications*, **2016**, 7, 11800	17.4	39
56	NOTCH Signaling Regulates Asymmetric Cell Fate of Fast- and Slow-Cycling Colon Cancer-Initiating Cells. *Cancer Research*, **2016**, 76, 3411-21	10.1	35
55	Matrix metalloproteinase inhibitors enhance the efficacy of frontline drugs against Mycobacterium tuberculosis. *PLoS Pathogens*, **2018**, 14, e1006974	7.6	34
54	Intravital imaging of mouse embryos. *Science*, **2020**, 368, 181-186	33.3	33
53	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	3.3	33
52	Fucosylation Deficiency in Mice Leads to Colitis and Adenocarcinoma. *Gastroenterology*, **2017**, 152, 193-205.e10	19.3	31
51	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. *Molecular Systems Biology*, **2017**, 13, 927	12.2	29
50	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. *Nature Biotechnology*, **2015**, 33, 656-60	44.5	25
49	Dysregulated transcriptional responses to SARS-CoV-2 in the periphery. *Nature Communications*, **2021**, 12, 1079	17.4	25
48	The cancer microbiome atlas: a pan-cancer comparative analysis to distinguish tissue-resident microbiota from contaminants. *Cell Host and Microbe*, **2021**, 29, 281-298.e5	23.4	22
47	The ALPK1/TIFA/NF-B axis links a bacterial carcinogen to R-loop-induced replication stress. *Nature Communications*, **2020**, 11, 5117	17.4	21
46	Notch signalling regulates asymmetric division and inter-conversion between lgr5 and bmi1 expressing intestinal stem cells. *Scientific Reports*, **2016**, 6, 26069	4.9	20
45	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility **2020**,		19
44	Single-Cell Transcriptomics Reveals Heterogeneity and Drug Response of Human Colorectal Cancer Organoids. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 2378-2381	0.9	17
43	is a microRNA safeguard for -induced inflammatory colon oncogenesis. *ELife*, **2018**, 7,	8.9	16
42	Single cell transcriptomics of mouse kidney transplants reveals a myeloid cell pathway for transplant rejection. *JCI Insight*, **2020**, 5,	9.9	15
41	Induced organoids derived from patients with ulcerative colitis recapitulate colitic reactivity. *Nature Communications*, **2021**, 12, 262	17.4	15
40	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. *Scientific Reports*, **2018**, 8, 10989	4.9	14

39	Mapping the microbial interactome: Statistical and experimental approaches for microbiome network inference. *Experimental Biology and Medicine*, **2019**, 244, 445-458	3.7	13
38	An intravital window to image the colon in real time. *Nature Communications*, **2019**, 10, 5647	17.4	13
37	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 144-51	1.3	12
36	Radical and lunatic fringes modulate notch ligands to support mammalian intestinal homeostasis. *ELife*, **2018**, 7,	8.9	12
35	A real-time spike classification method based on dynamic time warping for extracellular enteric neural recording with large waveform variability. *Journal of Neuroscience Methods*, **2016**, 261, 97-109	3	11
34	Single-cell omics analysis reveals functional diversification of hepatocytes during liver regeneration. *JCI Insight*, **2020**, 5,	9.9	11
33	Electrical stimulation of gut motility guided by an in silico model. *Journal of Neural Engineering*, **2017**, 14, 066010	5	10
32	Living fabrication of functional semi-interpenetrating polymeric materials. *Nature Communications*, **2021**, 12, 3422	17.4	9
31	Adaptive models for gene networks. *PLoS ONE*, **2012**, 7, e31657	3.7	8
30	An atlas connecting shared genetic architecture of human diseases and molecular phenotypes provides insight into COVID-19 susceptibility. *Genome Medicine*, **2021**, 13, 83	14.4	8
29	Mucosal-associated invariant T cell responses differ by sex in COVID-19. *Med*, **2021**, 2, 755-772.e5	31.7	8
28	SENP3-mediated host defense response contains HBV replication and restores protein synthesis. *PLoS ONE*, **2019**, 14, e0209179	3.7	7
27	A Tissue Engineering Approach to Metastatic Colon Cancer. *IScience*, **2020**, 23, 101719	6.1	6
26	A Precision Medicine Drug Discovery Pipeline Identifies Combined CDK2 and 9 Inhibition as a Novel Therapeutic Strategy in Colorectal Cancer. *Molecular Cancer Therapeutics*, **2020**, 19, 2516-2527	6.1	6
25	Frequency domain analysis reveals external periodic fluctuations can generate sustained p53 oscillation. *PLoS ONE*, **2011**, 6, e22852	3.7	6
24	The frontier of live tissue imaging across space and time. *Cell Stem Cell*, **2021**, 28, 603-622	18	6
23	Exploitation of Synthetic mRNA To Drive Immune Effector Cell Recruitment and Functional Reprogramming In Vivo. *Journal of Immunology*, **2019**, 202, 608-617	5.3	6
22	Asymmetric division: An antitumor player?. *Molecular and Cellular Oncology*, **2016**, 3, e1164279	1.2	5

21	Computational motility models of neurogastroenterology and neuromodulation. *Brain Research*, **2018**, 1693, 174-179	3.7	5
20	DAMPs/PAMPs induce monocytic TLR activation and tolerance in COVID-19 patients; nucleic acid binding scavengers can counteract such TLR agonists.. *Biomaterials*, **2022**, 283, 121393	15.6	5
19	Prometheus revisited. *Journal of Clinical Investigation*, **2018**, 128, 2192-2193	15.9	5
18	Patient-derived micro-organospheres enable clinical precision oncology.. *Cell Stem Cell*, **2022**,	18	5
17	Development of a precision medicine pipeline to identify personalized treatments for colorectal cancer. *BMC Cancer*, **2020**, 20, 592	4.8	4
16	Chromatin remodeling in peripheral blood cells reflects COVID-19 symptom severity **2020**,		4
15	Opportunities and Challenges for Single-Unit Recordings from Enteric Neurons in Awake Animals. *Micromachines*, **2018**, 9,	3.3	4
14	The Ex Vivo Culture and Pattern Recognition Receptor Stimulation of Mouse Intestinal Organoids. *Journal of Visualized Experiments*, **2016**,	1.6	3
13	Integrated chromatin and transcriptomic profiling of patient-derived colon cancer organoids identifies personalized drug targets to overcome oxaliplatin resistance. *Genes and Diseases*, **2021**, 8, 203-214	6.6	3
12	Chromatin Remodeling of Colorectal Cancer Liver Metastasis is Mediated by an HGF-PU.1-DPP4 Axis. *Advanced Science*, **2021**, 8, e2004673	13.6	3
11	Promises and Challenges of Organoid-Guided Precision Medicine. *Med*, **2021**, 2, 1011-1026	31.7	3
10	Real-time whole-brain imaging of hemodynamics and oxygenation at micro-vessel resolution with ultrafast wide-field photoacoustic microscopy.. *Light: Science and Applications*, **2022**, 11, 138	16.7	3
9	Slow nucleosome dynamics set the transcriptional speed limit and induce RNA polymerase II traffic jams and bursts.. *PLoS Computational Biology*, **2022**, 18, e1009811	5	2
8	Microbiota of Inflammatory Bowel Disease Models. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 2374-2377	0.9	2
7	Novel Three-Dimensional Cultures of Patient-Derived Cancer and Tumor Immune Cells. *Gastroenterology*, **2019**, 157, 260-261	13.3	1
6	Agent-Based Modelling to Delineate Spatiotemporal Control Mechanisms of the Stem Cell Niche. *Methods in Molecular Biology*, **2019**, 1975, 3-35	1.4	1
5	Epigenetic basis of oncogenic-Kras-mediated epithelial-cellular proliferation and plasticity.. *Developmental Cell*, **2022**, 57, 310-328.e9	10.2	1
4	Spatial perturbation with synthetic protein scaffold reveals robustness of asymmetric cell division. *Journal of Biomedical Science and Engineering*, **2013**, 6, 134-143	0.7	1

3	Mycobacterial infection aggravates Helicobacter pylori-induced gastric preneoplastic pathology by redirection of de novo induced Treg cells.. *Cell Reports*, **2022**, 38, 110359	10.6	0
2	Deep learning segmentation of glomeruli on kidney donor frozen sections.. *Journal of Medical Imaging*, **2021**, 8, 067501	2.6	0
1	Spatial Patterning from an Integrated Wnt/□catenin and Notch/Delta Gene Circuit. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 5022-5025	0.9	