

# Xin-Hua Feng

## List of Publications by Year in descending order

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95  
papers

7,788  
citations

61984

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51608

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98  
docs citations

98  
times ranked

11128  
citing authors

#	ARTICLE	IF	CITATIONS
1	SPECIFICITY AND VERSATILITY IN TGF- $\beta$ <sup>2</sup> SIGNALING THROUGH SMADS. Annual Review of Cell and Developmental Biology, 2005, 21, 659-693.	9.4	1,670
2	Smurf2 Is a Ubiquitin E3 Ligase Mediating Proteasome-dependent Degradation of Smad2 in Transforming Growth Factor- $\beta$ <sup>2</sup> Signaling. Journal of Biological Chemistry, 2000, 275, 36818-36822.	3.4	431
3	PPM1A Functions as a Smad Phosphatase to Terminate TGF $\beta$ <sup>2</sup> Signaling. Cell, 2006, 125, 915-928.	28.9	422
4	Smad7 Antagonizes Transforming Growth Factor $\beta$ <sup>2</sup> Signaling in the Nucleus by Interfering with Functional Smad-DNA Complex Formation. Molecular and Cellular Biology, 2007, 27, 4488-4499.	2.3	220
5	Single tumor-initiating cells evade immune clearance by recruiting type II macrophages. Genes and Development, 2017, 31, 247-259.	5.9	207
6	Direct Interaction of c-Myc with Smad2 and Smad3 to Inhibit TGF- $\beta$ <sup>2</sup> -Mediated Induction of the CDK Inhibitor p15Ink4B. Molecular Cell, 2002, 9, 133-143.	9.7	203
7	Stress-Induced Metabolic Disorder in Peripheral CD4+ T Cells Leads to Anxiety-like Behavior. Cell, 2019, 179, 864-879.e19.	28.9	180
8	HER2 recruits AKT1 to disrupt STING signalling and suppress antiviral defence and antitumour immunity. Nature Cell Biology, 2019, 21, 1027-1040.	10.3	163
9	Hippo signalling governs cytosolic nucleic acid sensing through YAP/TAZ-mediated TBK1 blockade. Nature Cell Biology, 2017, 19, 362-374.	10.3	153
10	Smad7 Protein Interacts with Receptor-regulated Smads (R-Smads) to Inhibit Transforming Growth Factor- $\beta$ <sup>2</sup> (TGF- $\beta$ <sup>2</sup> )/Smad Signaling. Journal of Biological Chemistry, 2016, 291, 382-392.	3.4	144
11	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. Nature Chemical Biology, 2020, 16, 887-895.	8.0	133
12	Ppm1b negatively regulates necroptosis through dephosphorylating Rip3. Nature Cell Biology, 2015, 17, 434-444.	10.3	128
13	Activation of Transforming Growth Factor- $\beta$ <sup>2</sup> Signaling by SUMO-1 Modification of Tumor Suppressor Smad4/DPC4. Journal of Biological Chemistry, 2003, 278, 18714-18719.	3.4	121
14	Myokine mediated muscle-kidney crosstalk suppresses metabolic reprogramming and fibrosis in damaged kidneys. Nature Communications, 2017, 8, 1493.	12.8	117
15	<sc>SLFN</sc> 11 inhibits checkpoint maintenance and homologous recombination repair. EMBO Reports, 2016, 17, 94-109.	4.5	116
16	Src Inhibits the Hippo Tumor Suppressor Pathway through Tyrosine Phosphorylation of Lats1. Cancer Research, 2017, 77, 4868-4880.	0.9	116
17	Critical regulation of TGF $\beta$ <sup>2</sup> signaling by Hsp90. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9244-9249.	7.1	112
18	OTUB2 Promotes Cancer Metastasis via Hippo-Independent Activation of YAP and TAZ. Molecular Cell, 2019, 73, 7-21.e7.	9.7	112

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19	The Type II Transforming Growth Factor- $\beta$ Receptor Autophosphorylates Not Only on Serine and Threonine but Also on Tyrosine Residues. <i>Journal of Biological Chemistry</i> , 1997, 272, 14850-14859.	3.4	107
20	Smad6 Recruits Transcription Corepressor CtBP To Repress Bone Morphogenetic Protein-Induced Transcription. <i>Molecular and Cellular Biology</i> , 2003, 23, 9081-9093.	2.3	100
21	Mitochondrial dynamics controls anti-tumour innate immunity by regulating CHIP-IRF1 axis stability. <i>Nature Communications</i> , 2017, 8, 1805.	12.8	97
22	Ligand-independent Activation of Transforming Growth Factor (TGF) $\beta$ Signaling Pathways by Heteromeric Cytoplasmic Domains of TGF- $\beta$ Receptors. <i>Journal of Biological Chemistry</i> , 1996, 271, 13123-13129.	3.4	94
23	Small C-terminal Domain Phosphatases Dephosphorylate the Regulatory Linker Regions of Smad2 and Smad3 to Enhance Transforming Growth Factor- $\beta$ Signaling*. <i>Journal of Biological Chemistry</i> , 2006, 281, 38365-38375.	3.4	90
24	Protein Serine/Threonine Phosphatase PPM1A Dephosphorylates Smad1 in the Bone Morphogenetic Protein Signaling Pathway*. <i>Journal of Biological Chemistry</i> , 2006, 281, 36526-36532.	3.4	90
25	Regulation of Multi-drug Resistance in hepatocellular carcinoma cells is TRPC6/Calcium Dependent. <i>Scientific Reports</i> , 2016, 6, 23269.	3.3	90
26	Nuclear Export of Smad2 and Smad3 by RanBP3 Facilitates Termination of TGF- $\beta$ Signaling. <i>Developmental Cell</i> , 2009, 16, 345-357.	7.0	89
27	TGF- $\beta$ signaling in cell fate control and cancer. <i>Current Opinion in Cell Biology</i> , 2019, 61, 56-63.	5.4	89
28	Loss of $\beta$ -Tubulin Acetylation Is Associated with TGF- $\beta$ -induced Epithelial-Mesenchymal Transition. <i>Journal of Biological Chemistry</i> , 2016, 291, 5396-5405.	3.4	85
29	Salinomycin decreases doxorubicin resistance in hepatocellular carcinoma cells by inhibiting the $\beta$ -catenin/TCF complex association via FOXO3a activation. <i>Oncotarget</i> , 2015, 6, 10350-10365.	1.8	84
30	A non-canonical cGAS $\rightarrow$ STING $\rightarrow$ PERK pathway facilitates the translational program critical for senescence and organ fibrosis. <i>Nature Cell Biology</i> , 2022, 24, 766-782.	10.3	84
31	FoxO3 inactivation promotes human cholangiocarcinoma tumorigenesis and chemoresistance through Keap1 $\rightarrow$ Nrf2 signaling. <i>Hepatology</i> , 2016, 63, 1914-1927.	7.3	81
32	Ubiquitination and Proteolysis of Cancer-Derived Smad4 Mutants by SCF Skp2. <i>Molecular and Cellular Biology</i> , 2004, 24, 7524-7537.	2.3	79
33	Posttranslational Regulation of Smads. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a022087.	5.5	73
34	Mst1 shuts off cytosolic antiviral defense through IRF3 phosphorylation. <i>Genes and Development</i> , 2016, 30, 1086-1100.	5.9	68
35	miR-192-5p Silencing by Genetic Aberrations Is a Key Event in Hepatocellular Carcinomas with Cancer Stem Cell Features. <i>Cancer Research</i> , 2019, 79, 941-953.	0.9	65
36	Delivery of miR-212 by chimeric peptide-condensed supramolecular nanoparticles enhances the sensitivity of pancreatic ductal adenocarcinoma to doxorubicin. <i>Biomaterials</i> , 2019, 192, 590-600.	11.4	61

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37	HER2/EGFR- $\beta$ -Akt Signaling Switches TGF $\beta$ 2 from Inhibiting Cell Proliferation to Promoting Cell Migration in Breast Cancer. <i>Cancer Research</i> , 2018, 78, 6073-6085.	0.9	58
38	PPM1A silences cytosolic RNA sensing and antiviral defense through direct dephosphorylation of MAVS and TBK1. <i>Science Advances</i> , 2016, 2, e1501889.	10.3	55
39	Small molecules promote CRISPR-Cpf1-mediated genome editing in human pluripotent stem cells. <i>Nature Communications</i> , 2018, 9, 1303.	12.8	52
40	Induced phase separation of mutant NF2 imprisons the cGAS-STING machinery to abrogate antitumor immunity. <i>Molecular Cell</i> , 2021, 81, 4147-4164.e7.	9.7	51
41	TGF- $\beta$ signaling in cancer. <i>Acta Biochimica Et Biophysica Sinica</i> , 2018, 50, 941-949.	2.0	49
42	Smad7 enables STAT3 activation and promotes pluripotency independent of TGF- $\beta$ 2 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10113-10118.	7.1	48
43	Trim33 mediates the proinflammatory function of Th17 cells. <i>Journal of Experimental Medicine</i> , 2018, 215, 1853-1868.	8.5	48
44	G protein-coupled estrogen receptor deficiency accelerates liver tumorigenesis by enhancing inflammation and fibrosis. <i>Cancer Letters</i> , 2016, 382, 195-202.	7.2	47
45	Tumor-derived exosomes promote tumor self-seeding in hepatocellular carcinoma by transferring miRNA-25-5p to enhance cell motility. <i>Oncogene</i> , 2018, 37, 4964-4978.	5.9	47
46	The ZATT-TOP2A-PICH Axis Drives Extensive Replication Fork Reversal to Promote Genome Stability. <i>Molecular Cell</i> , 2021, 81, 198-211.e6.	9.7	46
47	To (TGF) $\beta$ 2 or not to (TGF) $\beta$ 2: Fine-tuning of Smad signaling via post-translational modifications. <i>Cellular Signalling</i> , 2008, 20, 1579-1591.	3.6	45
48	PRDM4 mediates YAP-induced cell invasion by activating leukocyte-specific integrin $\beta$ 2 expression. <i>EMBO Reports</i> , 2018, 19, .	4.5	41
49	ALK phosphorylates SMAD4 on tyrosine to disable TGF- $\beta$ 2 tumour suppressor functions. <i>Nature Cell Biology</i> , 2019, 21, 179-189.	10.3	41
50	A subcellular map of the human kinome. <i>ELife</i> , 2021, 10, .	6.0	41
51	USP16-mediated deubiquitination of calcineurin A controls peripheral T cell maintenance. <i>Journal of Clinical Investigation</i> , 2019, 129, 2856-2871.	8.2	39
52	Nuclear Export of Smads by RanBP3L Regulates Bone Morphogenetic Protein Signaling and Mesenchymal Stem Cell Differentiation. <i>Molecular and Cellular Biology</i> , 2015, 35, 1700-1711.	2.3	37
53	Inhibition of mTORC2 Induces Cell-Cycle Arrest and Enhances the Cytotoxicity of Doxorubicin by Suppressing MDR1 Expression in HCC Cells. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1805-1815.	4.1	36
54	Smad3 signaling activates bone marrow-derived fibroblasts in renal fibrosis. <i>Laboratory Investigation</i> , 2014, 94, 545-556.	3.7	35

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55	Actl6a Protects Embryonic Stem Cells From Differentiating Into Primitive Endoderm. <i>Stem Cells</i> , 2015, 33, 1782-1793.	3.2	35
56	TBK1-Mediated DRP1 Targeting Confers Nucleic Acid Sensing to Reprogram Mitochondrial Dynamics and Physiology. <i>Molecular Cell</i> , 2020, 80, 810-827.e7.	9.7	35
57	AUNIP/C1orf135 directs DNA double-strand breaks towards the homologous recombination repair pathway. <i>Nature Communications</i> , 2017, 8, 985.	12.8	34
58	Phase separation of EML4-ALK in firing downstream signaling and promoting lung tumorigenesis. <i>Cell Discovery</i> , 2021, 7, 33.	6.7	34
59	Synthetic modified messenger RNA for therapeutic applications. <i>Acta Biomaterialia</i> , 2021, 131, 1-15.	8.3	34
60	C-terminal Domain (CTD) Small Phosphatase-like 2 Modulates the Canonical Bone Morphogenetic Protein (BMP) Signaling and Mesenchymal Differentiation via Smad Dephosphorylation. <i>Journal of Biological Chemistry</i> , 2014, 289, 26441-26450.	3.4	32
61	SCP Phosphatases Suppress Renal Cell Carcinoma by Stabilizing PML and Inhibiting mTOR/HIF Signaling. <i>Cancer Research</i> , 2014, 74, 6935-6946.	0.9	29
62	Specific control of BMP signaling and mesenchymal differentiation by cytoplasmic phosphatase PPM1H. <i>Cell Research</i> , 2014, 24, 727-741.	12.0	29
63	Lck/Hck/Fgr-Mediated Tyrosine Phosphorylation Negatively Regulates TBK1 to Restrain Innate Antiviral Responses. <i>Cell Host and Microbe</i> , 2017, 21, 754-768.e5.	11.0	29
64	Zinc Finger Protein 451 Is a Novel Smad Corepressor in Transforming Growth Factor- $\beta^2$ Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 2072-2083.	3.4	27
65	The Small C-terminal Domain Phosphatase 1 Inhibits Cancer Cell Migration and Invasion by Dephosphorylating Ser(P)68-Twist1 to Accelerate Twist1 Protein Degradation. <i>Journal of Biological Chemistry</i> , 2016, 291, 11518-11528.	3.4	25
66	SUMO Modification Reverses Inhibitory Effects of Smad Nuclear Interacting Protein-1 in TGF- $\beta^2$ Responses. <i>Journal of Biological Chemistry</i> , 2016, 291, 24418-24430.	3.4	25
67	The lysine methyltransferase SMYD2 methylates the kinase domain of type II receptor BMPR2 and stimulates bone morphogenetic protein signaling. <i>Journal of Biological Chemistry</i> , 2017, 292, 12702-12712.	3.4	25
68	Human expandable pancreatic progenitor-derived $\beta^2$ cells ameliorate diabetes. <i>Science Advances</i> , 2022, 8, eabk1826.	10.3	24
69	Tumor suppressor bromodomain-containing protein 7 cooperates with Smads to promote transforming growth factor- $\beta^2$ responses. <i>Oncogene</i> , 2017, 36, 362-372.	5.9	19
70	SCP4 Promotes Gluconeogenesis Through FoxO1/3a Dephosphorylation. <i>Diabetes</i> , 2018, 67, 46-57.	0.6	19
71	Phosphatase UBLCP1 controls proteasome assembly. <i>Open Biology</i> , 2017, 7, 170042.	3.6	18
72	To Ub or not to Ub: a regulatory question in TGF- $\beta^2$ signaling. <i>Trends in Biochemical Sciences</i> , 2022, 47, 1059-1072.	7.5	18

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73	Mapping messenger RNA methylations at single base resolution. <i>Current Opinion in Chemical Biology</i> , 2021, 63, 28-37.	6.1	17
74	Blocking hepatocarcinogenesis by a cytochrome P450 family member with female-preferential expression. <i>Gut</i> , 2022, 71, 2313-2324.	12.1	17
75	<scp>PTPN</scp> 3 acts as a tumor suppressor and boosts <scp>TGF</scp> $\hat{\alpha}$ signaling independent of its phosphatase activity. <i>EMBO Journal</i> , 2019, 38, e99945.	7.8	15
76	Palmitoylated SCP1 is targeted to the plasma membrane and negatively regulates angiogenesis. <i>ELife</i> , 2017, 6, .	6.0	15
77	Allosteric control of Ubp6 and the proteasome via a bidirectional switch. <i>Nature Communications</i> , 2022, 13, 838.	12.8	15
78	Liver cancer heterogeneity modeled by in situ genome editing of hepatocytes. <i>Science Advances</i> , 2022, 8, .	10.3	15
79	Termination of TGF- $\hat{\alpha}$ Superfamily Signaling Through SMAD Dephosphorylationâ€”A Functional Genomic View. <i>Journal of Genetics and Genomics</i> , 2007, 34, 1-9.	3.9	13
80	The protein phosphatase PPM1A dephosphorylates and activates YAP to govern mammalian intestinal and liver regeneration. <i>PLoS Biology</i> , 2021, 19, e3001122.	5.6	13
81	A Wnt-Independent LGR4â€”EGFR Signaling Axis in Cancer Metastasis. <i>Cancer Research</i> , 2021, 81, 4441-4454.	0.9	11
82	WDR74 functions as a novel coactivator in TGF- $\hat{\alpha}$ signaling. <i>Journal of Genetics and Genomics</i> , 2018, 45, 639-650.	3.9	10
83	PRMT5 Enables Robust STAT3 Activation via Arginine Symmetric Dimethylation of SMAD7. <i>Advanced Science</i> , 2021, 8, 2003047.	11.2	10
84	C-terminal domain small phosphatase-like 2 promotes epithelial-to-mesenchymal transition via Snail dephosphorylation and stabilization. <i>Open Biology</i> , 2018, 8, 170274.	3.6	9
85	Transplantation Strategies for Spinal Cord Injury Based on Microenvironment Modulation. <i>Current Stem Cell Research and Therapy</i> , 2020, 15, 522-530.	1.3	9
86	p53 Protects Cells from Death at the Heatstroke Threshold Temperature. <i>Cell Reports</i> , 2019, 29, 3693-3707.e5.	6.4	8
87	AMBRA1 Promotes TGF $\hat{\alpha}$ Signaling via Nonproteolytic Polyubiquitylation of Smad4. <i>Cancer Research</i> , 2021, 81, 5007-5020.	0.9	8
88	SMAD-oncoprotein interplay: Potential determining factors in targeted therapies. <i>Biochemical Pharmacology</i> , 2020, 180, 114155.	4.4	7
89	HSPA13 facilitates NF- $\hat{\kappa}$ Bâ€”mediated transcription and attenuates cell death responses in TNF $\hat{\alpha}$ signaling. <i>Science Advances</i> , 2021, 7, eabh1756.	10.3	5
90	The changing faces of cancer cells. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 466-466.	37.0	4

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91	New Chromatin Run-On Reaction Enables Global Mapping of Active RNA Polymerase Locations in an Enrichment-free Manner. ACS Chemical Biology, 2022, 17, 768-775.	3.4	3
92	ZNF451 stabilizes TWIST2 through SUMOylation and promotes epithelial-mesenchymal transition. American Journal of Cancer Research, 2021, 11, 898-915.	1.4	2
93	A special issue on the 10-year anniversary of Life Sciences Institute, Zhejiang University. Acta Biochimica Et Biophysica Sinica, 2020, 52, 701-701.	2.0	0
94	Abstract 4275: TGFBR2 Mutations Reduce Expression of Contractile Proteins in Aortic Smooth Muscle Cells and Predispose Individuals to Thoracic Aortic Aneurysms and Dissections. Circulation, 2008, 118, .	1.6	0
95	PPB is a Novel Serine/Threonine Phosphatase of Akt and is Involved in Myogenesis. FASEB Journal, 2010, 24, 863.2.	0.5	0