Xuedong Liu

List of Publications by Year
in descending order

90 papers	5,580 citations	57758 44 h-index	79698 73 g-index
92 all docs	92 docs citations	92 times ranked	9519 citing authors

#	Article	IF	Citations
1	Transforming growth factor Î²-induced phosphorylation of Smad3 is required for growth inhibition and transcriptional induction in epithelialâ€‰cells. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10669-10674.	7.1	339
2	Interaction of the Ski Oncoprotein with Smad3 Regulates TGF-Î² Signaling. Molecular Cell, 1999, 4, 499-509.	9.7	257
3	SnoN and Ski protooncoproteins are rapidly degraded in response to transforming growth factor beta signaling. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12442-12447.	7.1	245
4	Systematic Identification of C.Âelegans miRISC Proteins, miRNAs, and mRNA Targets by Their Interactions with GW182 Proteins AIN-1 and AIN-2. Molecular Cell, 2007, 28, 598-613.	9.7	226
5	Axin and GSK3-Î² control Smad3 protein stability and modulate TGF-Î² signaling. Genes and Development, 2008, 22, 106-120.	5.9	224
6	Ski/Sno and TGF-Î² signaling. Cytokine and Growth Factor Reviews, 2001, 12, 1-8.	7.2	192
7	The MPS1 Family of Protein Kinases. Annual Review of Biochemistry, 2012, 81, 561-585.	11.1	179
8	The Anaphase-Promoting Complex Mediates TGF-Î² Signaling by Targeting SnoN for Destruction. Molecular Cell, 2001, 8, 1027-1039.	9.7	172
9	A Novel Mechanism for Regulating Transforming Growth Factor Î² (TGF-Î²) Signaling. Journal of Biological Chemistry, 2001, 276, 39608-39617.	3.4	169
10	Dynamics of TGFâ€Î²/Smad signaling. FEBS Letters, 2012, 586, 1921-1928.	2.8	163
11	Peroxisome Proliferator-activated Receptor Î³ Inhibits Transforming Growth Factor Î²-induced Connective Tissue Growth Factor Expression in Human Aortic Smooth Muscle Cells by Interfering with Smad3. Journal of Biological Chemistry, 2001, 276, 45888-45894.	3.4	162
12	Importin Î² Mediates Nuclear Translocation of Smad 3. Journal of Biological Chemistry, 2000, 275, 23425-23428.	3.4	148
13	Generation of Mammalian Cells Stably Expressing Multiple Genes at Predetermined Levels. Analytical Biochemistry, 2000, 280, 20-28.	2.4	139
14	A Reversible and Repeatable Thiolâ€“Ene Bioconjugation for Dynamic Patterning of Signaling Proteins in Hydrogels. ACS Central Science, 2018, 4, 909-916.	11.3	122
15	A distinct nuclear localization signal in the N terminus of Smad 3 determines its ligand-induced nuclear translocation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7853-7858.	7.1	113
16	Identification of Novel Protein-Protein Interactions Using A Versatile Mammalian Tandem Affinity Purification Expression System. Molecular and Cellular Proteomics, 2003, 2, 1225-1233.	3.8	108
17	Estrogen-Related Receptor Â1 Functionally Binds as a Monomer to Extended Half-Site Sequences Including Ones Contained within Estrogen-Response Elements. Molecular Endocrinology, 1997, 11, 342-352.	3.7	92
18	Quantitative analysis of transient and sustained transforming growth factorâ€Î² signaling dynamics. Molecular Systems Biology, 2011, 7, 492.	7.2	91

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19	PINK1 Triggers Autocatalytic Activation of Parkin to Specify Cell Fate Decisions. Current Biology, 2014, 24, 1854-1865.	3.9	83
20	Decoding the quantitative nature of TGF-Î²/Smad signaling. Trends in Cell Biology, 2008, 18, 430-442.	7.9	80
21	Partners in crime: the TGFÎ² and MAPK pathways in cancer progression. Cell and Bioscience, 2011, 1, 42.	4.8	80
22	Ubiquitination and Proteolysis of Cancer-Derived Smad4 Mutants by SCF Skp2. Molecular and Cellular Biology, 2004, 24, 7524-7537.	2.3	79
23	A Concise Total Synthesis of Largazole, Solution Structure, and Some Preliminary Structure Activity Relationships. Organic Letters, 2008, 10, 3595-3598.	4.6	75
24	Sorafenib targets the mitochondrial electron transport chain complexes and ATP synthase to activate the PINK1â€“Parkin pathway and modulate cellular drug response. Journal of Biological Chemistry, 2017, 292, 15105-15120.	3.4	70
25	High-Throughput Screening AlphaScreen Assay for Identification of Small-Molecule Inhibitors of Ubiquitin E3 Ligase SCFSkp2-Cks1. Journal of Biomolecular Screening, 2013, 18, 910-920.	2.6	68
26	Ubiquitination of p21Cip1/WAF1by SCFSkp2: Substrate Requirement and Ubiquitination Site Selectionâ€. Biochemistry, 2005, 44, 14553-14564.	2.5	67
27	Leader cell positioning drives wound-directed collective migration in TGFÎ²-stimulated epithelial sheets. Molecular Biology of the Cell, 2014, 25, 1586-1593.	2.1	62
28	Transforming Growth Factor Î² Depletion Is the Primary Determinant of Smad Signaling Kinetics. Molecular and Cellular Biology, 2009, 29, 2443-2455.	2.3	61
29	Activation of Mps1 Promotes Transforming Growth Factor-Î²-independent Smad Signaling. Journal of Biological Chemistry, 2007, 282, 18327-18338.	3.4	60
30	Largazole and Its Derivatives Selectively Inhibit Ubiquitin Activating Enzyme (E1). PLoS ONE, 2012, 7, e29208.	2.5	60
31	Genome-wide dose-dependent inhibition of histone deacetylases studies reveal their roles in enhancer remodeling and suppression of oncogenic super-enhancers. Nucleic Acids Research, 2018, 46, 1756-1776.	14.5	58
32	Disruption of TGF-Î² growth inhibition by oncogenic ras is linked to p27Kip1 mislocalization. Oncogene, 2000, 19, 5926-5935.	5.9	57
33	Programmable Extracellular Vesicles for Macromolecule Delivery and Genome Modifications. Developmental Cell, 2020, 55, 784-801.e9.	7.0	56
34	Activation of the erythropoietin receptor by the gp55-P viral envelope protein is determined by a single amino acid in its transmembrane domain. EMBO Journal, 1999, 18, 3334-3347.	7.8	55
35	Structural Basis of Selective Ubiquitination of TRF1 by SCFFbx4. Developmental Cell, 2010, 18, 214-225.	7.0	55
36	Transforming Growth Factor-Î² Induces Formation of a Dithiothreitol-resistant Type I/Type II Receptor Complex in Live Cells. Journal of Biological Chemistry, 1999, 274, 5716-5722.	3.4	54

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37	Raf Kinase Inhibitory Protein Function Is Regulated via a Flexible Pocket and Novel Phosphorylation-Dependent Mechanism. Molecular and Cellular Biology, 2009, 29, 1306-1320.	2.3	54
38	Modeling keratinocyte wound healing dynamics: Cellâ€"cell adhesion promotes sustained collective migration. Journal of Theoretical Biology, 2016, 400, 103-117.	1.7	54
39	Structure of p300 bound to MEF2 on DNA reveals a mechanism of enhanceosome assembly. Nucleic Acids Research, 2011, 39, 4464-4474.	14.5	53
40	Histone Deacetylase Inhibition Sensitizes PD1 Blockadeâ€"Resistant B-cell Lymphomas. Cancer Immunology Research, 2019, 7, 1318-1331.	3.4	53
41	A Method of Mapping Protein Sumoylation Sites by Mass Spectrometry Using a Modified Small Ubiquitin-like Modifier 1 (SUMO-1) and a Computational Program. Molecular and Cellular Proteomics, 2005, 4, 1626-1636.	3.8	52
42	Pathway- and Expression Level-Dependent Effects of Oncogenic N-Ras: p27Kip1 Mislocalization by the Ral-GEF Pathway and Erk-Mediated Interference with Smad Signaling. Molecular and Cellular Biology, 2005, 25, 8239-8250.	2.3	52
43	Genome-wide analysis of Musashi-2 targets reveals novel functions in governing epithelial cell migration. Nucleic Acids Research, 2016, 44, 3788-3800.	14.5	48
44	Regulation of Kinetochore Recruitment of Two Essential Mitotic Spindle Checkpoint Proteins by Mps1 Phosphorylation. Molecular Biology of the Cell, 2009, 20, 10-20.	2.1	47
45	Negative regulation of SCFSkp2 ubiquitin ligase by TGF-Î² signaling. Oncogene, 2004, 23, 1064-1075.	5.9	45
46	SUMO-1 modification of MEF2A regulates its transcriptional activity. Journal of Cellular and Molecular Medicine, 2006, 10, 132-144.	3.6	45
47	Identification and Mechanistic Studies of a Novel Ubiquitin E1 Inhibitor. Journal of Biomolecular Screening, 2012, 17, 421-434.	2.6	42
48	Overexpression of Mps1 in colon cancer cells attenuates the spindle assembly checkpoint and increases aneuploidy. Biochemical and Biophysical Research Communications, 2014, 450, 1690-1695.	2.1	42
49	Structural basis of the phosphorylation-independent recognition of cyclin D1 by the SCF ^{FBXO31} ubiquitin ligase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 319-324.	7.1	39
50	Role of Glucose Metabolism and ATP in Maintaining PINK1 Levels during Parkin-mediated Mitochondrial Damage Responses. Journal of Biological Chemistry, 2015, 290, 904-917.	3.4	38
51	Comparative Haploid Genetic Screens Reveal Divergent Pathways in the Biogenesis and Trafficking of Glycophosphatidylinositol-Anchored Proteins. Cell Reports, 2015, 11, 1727-1736.	6.4	37
52	Structural and mechanistic insights into Mps1 kinase activation. Journal of Cellular and Molecular Medicine, 2009, 13, 1679-1694.	3.6	35
53	Ubiquitination of p27 Requires Physical Interaction with Cyclin E and Probable Phosphate Recognition by SKP2. Journal of Biological Chemistry, 2005, 280, 30301-30309.	3.4	34
54	Spatiotemporal Control of TGF-Î² Signaling with Light. ACS Synthetic Biology, 2018, 7, 443-451.	3.8	34

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55	The Anemic Friend Virus gp55 Envelope Protein Induces Erythroid Differentiation in Fetal Liver Colony-Forming Units-Erythroid. Blood, 1998, 91, 1163-1172.	1.4	33
56	Ligand-dependent ubiquitination of Smad3 is regulated by casein kinase 1 gamma 2, an inhibitor of TGF-Î² signaling. Oncogene, 2008, 27, 7235-7247.	5.9	32
57	Ubc9 expression is essential for myotube formation in C2C12. Experimental Cell Research, 2006, 312, 2132-2141.	2.6	30
58	Long-term live-cell imaging reveals new roles forSalmonellaeffector proteins SseG and SteA. Cellular Microbiology, 2017, 19, e12641.	2.1	29
59	Control of cell cycle-dependent degradation of c-Ski proto-oncoprotein by Cdc34. Oncogene, 2004, 23, 5643-5653.	5.9	28
60	A Negatively Charged Amino Acid in Skp2 Is Required for Skp2-Cks1 Interaction and Ubiquitination of p27Kip1. Journal of Biological Chemistry, 2003, 278, 32390-32396.	3.4	24
61	A Transcriptional Enhancer from the Coding Region of ADAMTS5. PLoS ONE, 2008, 3, e2184.	2.5	24
62	Cannabidiol activates PINK1-Parkin-dependent mitophagy and mitochondrial-derived vesicles. European Journal of Cell Biology, 2022, 101, 151185.	3.6	24
63	Cellular Abundance of Mps1 and the Role of Its Carboxyl Terminal Tail in Substrate Recruitment*. Journal of Biological Chemistry, 2010, 285, 38730-38739.	3.4	22
64	The plant triterpenoid celastrol blocks PINK1-dependent mitophagy by disrupting PINK1's association with the mitochondrial protein TOM20. Journal of Biological Chemistry, 2019, 294, 7472-7487.	3.4	20
65	A biosensor for the activity of the â€œsheddaseâ€• TACE (ADAM17) reveals novel and cell typeâ€"specific mechanisms of TACE activation. Science Signaling, 2015, 8, rs1.	3.6	18
66	Two LXXLL motifs in the N terminus of Mps1 are required for Mps1 nuclear import during G₂/M transition and sustained spindle checkpoint responses. Cell Cycle, 2011, 10, 2742-2750.	2.6	17
67	High-Throughput Gateway Bicistronic Retroviral Vectors for Stable Expression in Mammalian Cells: Exploring the Biologic Effects of STAT5 Overexpression. DNA and Cell Biology, 2004, 23, 355-365.	1.9	16
68	Molecular and Biochemical Characterization of the Skp2-Cks1 Binding Interface. Journal of Biological Chemistry, 2004, 279, 51362-51369.	3.4	13
69	Treatment of Parkinson's disease in Zebrafish model with a berberine derivative capable of crossing blood brain barrier, targeting mitochondria, and convenient for bioimaging experiments. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 249, 109151.	2.6	13
70	Unraveling transcriptional control and cis-regulatory codes using the software suite GeneACT. Genome Biology, 2006, 7, R97.	9.6	12
71	A chemical genetic approach to probe the function of PINK1 in regulating mitochondrial dynamics. Cell Research, 2015, 25, 394-397.	12.0	12
72	The Development of a Novel High Throughput Computational Tool for Studying Individual and Collective Cellular Migration. PLoS ONE, 2013, 8, e82444.	2.5	10

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73	Identifying pattern-defined regulatory islands in mammalian genomes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10116-10121.	7.1	8
74	Association of v-ErbA with Smad4 Disrupts TGF-Î² Signaling. Molecular Biology of the Cell, 2009, 20, 1509-1519.	2.1	8
75	Multiomic Analysis Reveals Disruption of Cholesterol Homeostasis by Cannabidiol in Human Cell Lines. Molecular and Cellular Proteomics, 2022, 21, 100262.	3.8	8
76	Computationally Designed Peptide Inhibitors of the Ubiquitin E3 Ligase SCF^{Fbx4}. ChemBioChem, 2013, 14, 445-451.	2.6	7
77	Suppression of Î±-catenin and adherens junctions enhances epithelial cell proliferation and motility via TACE-mediated TGF-Î± autocrine/paracrine signaling. Molecular Biology of the Cell, 2021, 32, 348-361.	2.1	7
78	Measuring the Absolute Abundance of the Smad Transcription Factors Using Quantitative Immunoblotting. Methods in Molecular Biology, 2010, 647, 357-376.	0.9	7
79	Enzymes Photo-Cross-Linked to Live Cell Receptors Retain Activity and EGFR Inhibition after Both Internalization and Recycling. Bioconjugate Chemistry, 2020, 31, 104-112.	3.6	6
80	Measuring TGF-Î² Ligand Dynamics in Culture Medium. Methods in Molecular Biology, 2016, 1344, 379-389.	0.9	5
81	Analysis of Ligand-Dependent Nuclear Accumulation of Smads in TGF-Î² Signaling. Methods in Molecular Biology, 2010, 647, 95-111.	0.9	4
82	Effects of transmembrane and juxtamembrane domains on proliferative ability of TSLP receptor. Molecular Immunology, 2010, 47, 1207-1215.	2.2	3
83	UV-C irradiation delays mitotic progression by recruiting Mps1 to kinetochores. Cell Cycle, 2013, 12, 1292-1302.	2.6	3
84	Temporal Metabolite, Ion, and Enzyme Activity Profiling Using Fluorescence Microscopy and Genetically Encoded Biosensors. Methods in Molecular Biology, 2019, 1978, 343-353.	0.9	3
85	Dual Perturbation of Electron Transport Chain (ETC) Complex and ATP Synthase Triggers PINK1/Parkinâ€dependent Mitophagy. FASEB Journal, 2018, 32, 543.9.	0.5	1
86	Effect of Covalent Photoconjugation of Affibodies to Epidermal Growth Factor Receptor (EGFR) on Cellular Quiescence. Biotechnology and Bioengineering, 2022, 119, 187-198.	3.3	1
87	Protocol for Analysis and Consolidation of TrackMate Outputs for Measuring Two-Dimensional Cell Motility using Nuclear Tracking. Journal of Visualized Experiments, 2021, , .	0.3	1
88	Histone Deacetylase Inhibition Leads to Doseâ€Dependent Suppression of Oncogeneâ€Associated Superâ€Enhancers. FASEB Journal, 2018, 32, 523.13.	0.5	0
89	Live Cell Imaging of Spatiotemporal Ca2+ Fluctuation Responses to Anticancer Drugs. Methods in Molecular Biology, 2022, 2488, 227-236.	0.9	0
90	Cell type-specific intercellular gene transfer in mammalian cells via transient cell entrapment. Cell Discovery, 2022, 8, 20.	6.7	0