

Xuedong Liu

List of Publications by Year in descending order

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90
papers

5,580
citations

57752

44
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79691

73
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92
all docs

92
docs citations

92
times ranked

9519
citing authors

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

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19	PINK1 Triggers Autocatalytic Activation of Parkin to Specify Cell Fate Decisions. <i>Current Biology</i> , 2014, 24, 1854-1865.	3.9	83
20	Decoding the quantitative nature of TGF- β /Smad signaling. <i>Trends in Cell Biology</i> , 2008, 18, 430-442.	7.9	80
21	Partners in crime: the TGF β and MAPK pathways in cancer progression. <i>Cell and Bioscience</i> , 2011, 1, 42.	4.8	80
22	Ubiquitination and Proteolysis of Cancer-Derived Smad4 Mutants by SCF Skp2. <i>Molecular and Cellular Biology</i> , 2004, 24, 7524-7537.	2.3	79
23	A Concise Total Synthesis of Largazole, Solution Structure, and Some Preliminary Structure Activity Relationships. <i>Organic Letters</i> , 2008, 10, 3595-3598.	4.6	75
24	Sorafenib targets the mitochondrial electron transport chain complexes and ATP synthase to activate the PINK1-Parkin pathway and modulate cellular drug response. <i>Journal of Biological Chemistry</i> , 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. <i>Journal of Biomolecular Screening</i> , 2013, 18, 910-920.	2.6	68
26	Ubiquitination of p21Cip1/WAF1 by SCFSkp2: Substrate Requirement and Ubiquitination Site Selection. <i>Biochemistry</i> , 2005, 44, 14553-14564.	2.5	67
27	Leader cell positioning drives wound-directed collective migration in TGF β -stimulated epithelial sheets. <i>Molecular Biology of the Cell</i> , 2014, 25, 1586-1593.	2.1	62
28	Transforming Growth Factor β Depletion Is the Primary Determinant of Smad Signaling Kinetics. <i>Molecular and Cellular Biology</i> , 2009, 29, 2443-2455.	2.3	61
29	Activation of Mps1 Promotes Transforming Growth Factor- β -independent Smad Signaling. <i>Journal of Biological Chemistry</i> , 2007, 282, 18327-18338.	3.4	60
30	Largazole and Its Derivatives Selectively Inhibit Ubiquitin Activating Enzyme (E1). <i>PLoS ONE</i> , 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. <i>Nucleic Acids Research</i> , 2018, 46, 1756-1776.	14.5	58
32	Disruption of TGF- β growth inhibition by oncogenic ras is linked to p27Kip1 mislocalization. <i>Oncogene</i> , 2000, 19, 5926-5935.	5.9	57
33	Programmable Extracellular Vesicles for Macromolecule Delivery and Genome Modifications. <i>Developmental Cell</i> , 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. <i>EMBO Journal</i> , 1999, 18, 3334-3347.	7.8	55
35	Structural Basis of Selective Ubiquitination of TRF1 by SCFFbx4. <i>Developmental Cell</i> , 2010, 18, 214-225.	7.0	55
36	Transforming Growth Factor- β Induces Formation of a Dithiothreitol-resistant Type I/Type II Receptor Complex in Live Cells. <i>Journal of Biological Chemistry</i> , 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. <i>Molecular and Cellular Biology</i> , 2009, 29, 1306-1320.	2.3	54
38	Modeling keratinocyte wound healing dynamics: Cell-cell adhesion promotes sustained collective migration. <i>Journal of Theoretical Biology</i> , 2016, 400, 103-117.	1.7	54
39	Structure of p300 bound to MEF2 on DNA reveals a mechanism of enhanceosome assembly. <i>Nucleic Acids Research</i> , 2011, 39, 4464-4474.	14.5	53
40	Histone Deacetylase Inhibition Sensitizes PD1 Blockade-Resistant B-cell Lymphomas. <i>Cancer Immunology Research</i> , 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. <i>Molecular and Cellular Proteomics</i> , 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. <i>Molecular and Cellular Biology</i> , 2005, 25, 8239-8250.	2.3	52
43	Genome-wide analysis of Musashi-2 targets reveals novel functions in governing epithelial cell migration. <i>Nucleic Acids Research</i> , 2016, 44, 3788-3800.	14.5	48
44	Regulation of Kinetochore Recruitment of Two Essential Mitotic Spindle Checkpoint Proteins by Mps1 Phosphorylation. <i>Molecular Biology of the Cell</i> , 2009, 20, 10-20.	2.1	47
45	Negative regulation of SCFSkp2 ubiquitin ligase by TGF- β signaling. <i>Oncogene</i> , 2004, 23, 1064-1075.	5.9	45
46	SUMO-1 modification of MEF2A regulates its transcriptional activity. <i>Journal of Cellular and Molecular Medicine</i> , 2006, 10, 132-144.	3.6	45
47	Identification and Mechanistic Studies of a Novel Ubiquitin E1 Inhibitor. <i>Journal of Biomolecular Screening</i> , 2012, 17, 421-434.	2.6	42
48	Overexpression of Mps1 in colon cancer cells attenuates the spindle assembly checkpoint and increases aneuploidy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1690-1695.	2.1	42
49	Structural basis of the phosphorylation-independent recognition of cyclin D1 by the SCF ^{FBXO31} ubiquitin ligase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 319-324.	7.1	39
50	Role of Glucose Metabolism and ATP in Maintaining PINK1 Levels during Parkin-mediated Mitochondrial Damage Responses. <i>Journal of Biological Chemistry</i> , 2015, 290, 904-917.	3.4	38
51	Comparative Haploid Genetic Screens Reveal Divergent Pathways in the Biogenesis and Trafficking of Glycophosphatidylinositol-Anchored Proteins. <i>Cell Reports</i> , 2015, 11, 1727-1736.	6.4	37
52	Structural and mechanistic insights into Mps1 kinase activation. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 1679-1694.	3.6	35
53	Ubiquitination of p27 Requires Physical Interaction with Cyclin E and Probable Phosphate Recognition by SKP2. <i>Journal of Biological Chemistry</i> , 2005, 280, 30301-30309.	3.4	34
54	Spatiotemporal Control of TGF- β Signaling with Light. <i>ACS Synthetic Biology</i> , 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. <i>Blood</i> , 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- β 2 signaling. <i>Oncogene</i> , 2008, 27, 7235-7247.	5.9	32
57	Ubc9 expression is essential for myotube formation in C2C12. <i>Experimental Cell Research</i> , 2006, 312, 2132-2141.	2.6	30
58	Long-term live-cell imaging reveals new roles for Salmonella effector proteins SseG and SteA. <i>Cellular Microbiology</i> , 2017, 19, e12641.	2.1	29
59	Control of cell cycle-dependent degradation of c-Ski proto-oncoprotein by Cdc34. <i>Oncogene</i> , 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. <i>Journal of Biological Chemistry</i> , 2003, 278, 32390-32396.	3.4	24
61	A Transcriptional Enhancer from the Coding Region of ADAMTS5. <i>PLoS ONE</i> , 2008, 3, e2184.	2.5	24
62	Cannabidiol activates PINK1-Parkin-dependent mitophagy and mitochondrial-derived vesicles. <i>European Journal of Cell Biology</i> , 2022, 101, 151185.	3.6	24
63	Cellular Abundance of Mps1 and the Role of Its Carboxyl Terminal Tail in Substrate Recruitment*. <i>Journal of Biological Chemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 2019, 294, 7472-7487.	3.4	20
65	A biosensor for the activity of the α -secretase TACE (ADAM17) reveals novel and cell type-specific mechanisms of TACE activation. <i>Science Signaling</i> , 2015, 8, rs1.	3.6	18
66	Two LXXLL motifs in the N terminus of Mps1 are required for Mps1 nuclear import during G ₂ /M transition and sustained spindle checkpoint responses. <i>Cell Cycle</i> , 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. <i>DNA and Cell Biology</i> , 2004, 23, 355-365.	1.9	16
68	Molecular and Biochemical Characterization of the Skp2-Cks1 Binding Interface. <i>Journal of Biological Chemistry</i> , 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. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 249, 109151.	2.6	13
70	Unraveling transcriptional control and cis-regulatory codes using the software suite GeneACT. <i>Genome Biology</i> , 2006, 7, R97.	9.6	12
71	A chemical genetic approach to probe the function of PINK1 in regulating mitochondrial dynamics. <i>Cell Research</i> , 2015, 25, 394-397.	12.0	12
72	The Development of a Novel High Throughput Computational Tool for Studying Individual and Collective Cellular Migration. <i>PLoS ONE</i> , 2013, 8, e82444.	2.5	10

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73	Identifying pattern-defined regulatory islands in mammalian genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10116-10121.	7.1	8
74	Association of v-ErbA with Smad4 Disrupts TGF- β Signaling. <i>Molecular Biology of the Cell</i> , 2009, 20, 1509-1519.	2.1	8
75	Multimic Analysis Reveals Disruption of Cholesterol Homeostasis by Cannabidiol in Human Cell Lines. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100262.	3.8	8
76	Computationally Designed Peptide Inhibitors of the Ubiquitin E3 Ligase SCF ^{Fbx4} . <i>ChemBioChem</i> , 2013, 14, 445-451.	2.6	7
77	Suppression of β -catenin and adherens junctions enhances epithelial cell proliferation and motility via TACE-mediated TGF- β autocrine/paracrine signaling. <i>Molecular Biology of the Cell</i> , 2021, 32, 348-361.	2.1	7
78	Measuring the Absolute Abundance of the Smad Transcription Factors Using Quantitative Immunoblotting. <i>Methods in Molecular Biology</i> , 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. <i>Bioconjugate Chemistry</i> , 2020, 31, 104-112.	3.6	6
80	Measuring TGF- β Ligand Dynamics in Culture Medium. <i>Methods in Molecular Biology</i> , 2016, 1344, 379-389.	0.9	5
81	Analysis of Ligand-Dependent Nuclear Accumulation of Smads in TGF- β Signaling. <i>Methods in Molecular Biology</i> , 2010, 647, 95-111.	0.9	4
82	Effects of transmembrane and juxtamembrane domains on proliferative ability of TSLP receptor. <i>Molecular Immunology</i> , 2010, 47, 1207-1215.	2.2	3
83	UV-C irradiation delays mitotic progression by recruiting Mps1 to kinetochores. <i>Cell Cycle</i> , 2013, 12, 1292-1302.	2.6	3
84	Temporal Metabolite, Ion, and Enzyme Activity Profiling Using Fluorescence Microscopy and Genetically Encoded Biosensors. <i>Methods in Molecular Biology</i> , 2019, 1978, 343-353.	0.9	3
85	Dual Perturbation of Electron Transport Chain (ETC) Complex and ATP Synthase Triggers PINK1/Parkin-Dependent Mitophagy. <i>FASEB Journal</i> , 2018, 32, 543.9.	0.5	1
86	Effect of Covalent Photoconjugation of Affibodies to Epidermal Growth Factor Receptor (EGFR) on Cellular Quiescence. <i>Biotechnology and Bioengineering</i> , 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. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
88	Histone Deacetylase Inhibition Leads to Dose-Dependent Suppression of Oncogene-Associated Super-Enhancers. <i>FASEB Journal</i> , 2018, 32, 523.13.	0.5	0
89	Live Cell Imaging of Spatiotemporal Ca ²⁺ Fluctuation Responses to Anticancer Drugs. <i>Methods in Molecular Biology</i> , 2022, 2488, 227-236.	0.9	0
90	Cell type-specific intercellular gene transfer in mammalian cells via transient cell entrapment. <i>Cell Discovery</i> , 2022, 8, 20.	6.7	0