

# Weiliang Xia

## List of Publications by Year in descending order

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43  
papers

8,159  
citations

172207

29  
h-index

264894

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

17906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Hyaluronan-CD44 Interaction Activates Stem Cell Marker Nanog, Stat-3-mediated MDR1 Gene Expression, and Ankyrin-regulated Multidrug Efflux in Breast and Ovarian Tumor Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 17635-17651.	1.6	378
3	Hyaluronan-CD44 Interaction with Protein Kinase C $\mu$ Promotes Oncogenic Signaling by the Stem Cell Marker Nanog and the Production of MicroRNA-21, Leading to Down-regulation of the Tumor Suppressor Protein PDCD4, Anti-apoptosis, and Chemotherapy Resistance in Breast Tumor Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 26533-26546.	1.6	280
4	A mesoporous silica nanoparticle "PEI" Fusogenic peptide system for siRNA delivery in cancer therapy. <i>Biomaterials</i> , 2013, 34, 1391-1401.	5.7	215
5	Tumor necrosis factor $\alpha$ reversibly disrupts the blood-testis barrier and impairs Sertoli-germ cell adhesion in the seminiferous epithelium of adult rat testes. <i>Journal of Endocrinology</i> , 2006, 190, 313-329.	1.2	181
6	The packaging of siRNA within the mesoporous structure of silica nanoparticles. <i>Biomaterials</i> , 2011, 32, 9546-9556.	5.7	176
7	CD44 variant isoforms in head and neck squamous cell carcinoma progression. <i>Laryngoscope</i> , 2009, 119, 1518-1530.	1.1	165
8	Hyaluronan-mediated CD44 Interaction with p300 and SIRT1 Regulates $\beta$ -Catenin Signaling and NF $\kappa$ B-specific Transcription Activity Leading to MDR1 and Bcl-xL Gene Expression and Chemoresistance in Breast Tumor Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 2657-2671.	1.6	160
9	TGF- $\beta$ 3 and TNF $\alpha$ perturb blood-testis barrier (BTB) dynamics by accelerating the clathrin-mediated endocytosis of integral membrane proteins: A new concept of BTB regulation during spermatogenesis. <i>Developmental Biology</i> , 2009, 327, 48-61.	0.9	147
10	FGFR1-ERK1/2-SOX2 axis promotes cell proliferation, epithelial-mesenchymal transition, and metastasis in FGFR1-amplified lung cancer. <i>Oncogene</i> , 2018, 37, 5340-5354.	2.6	123
11	Differential Interactions between Transforming Growth Factor- $\beta$ 3/T $\beta$ R1, TAB1, and CD2AP Disrupt Blood-Testis Barrier and Sertoli-Germ Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2006, 281, 16799-16813.	1.6	100
12	Interaction of low molecular weight hyaluronan with CD44 and toll-like receptors promotes the actin filament-associated protein 110-actin binding and MyD88-NF $\kappa$ B signaling leading to proinflammatory cytokine/chemokine production and breast tumor invasion. <i>Cytoskeleton</i> , 2011, 68, 671-693.	1.0	99
13	Inhibition of SIRT6 in prostate cancer reduces cell viability and increases sensitivity to chemotherapeutics. <i>Protein and Cell</i> , 2013, 4, 702-710.	4.8	99
14	Regulation of Ectoplasmic Specialization Dynamics in the Seminiferous Epithelium by Focal Adhesion-Associated Proteins in Testosterone-Suppressed Rat Testes. <i>Endocrinology</i> , 2005, 146, 1192-1204.	1.4	98
15	Highly effective inhibition of lung cancer growth and metastasis by systemic delivery of siRNA via multimodal mesoporous silica-based nanocarrier. <i>Biomaterials</i> , 2014, 35, 10058-10069.	5.7	98
16	TGF- $\beta$ 3 regulates anchoring junction dynamics in the seminiferous epithelium of the rat testis via the Ras/ERK signaling pathway: An in vivo study. <i>Developmental Biology</i> , 2005, 280, 321-343.	0.9	94
17	Regulation of Sertoli-Germ Cell Adherens Junction Dynamics via Changes in Protein-Protein Interactions of the N-Cadherin- $\beta$ -Catenin Protein Complex which Are Possibly Mediated by c-Src and Myotubularin-Related Protein 2: An in Vivo Study Using an Androgen Suppression Model. <i>Endocrinology</i> , 2005, 146, 1268-1284.	1.4	88
18	Cytokines and junction restructuring during spermatogenesis—a lesson to learn from the testis. <i>Cytokine and Growth Factor Reviews</i> , 2005, 16, 469-493.	3.2	84

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19	Inflammation in ischaemic brain injury: Current advances and future perspectives. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 253-258.	0.9	72
20	Disruption of Sertoli-germ cell adhesion function in the seminiferous epithelium of the rat testis can be limited to adherens junctions without affecting the blood-testis barrier integrity: An in vivo study using an androgen suppression model. <i>Journal of Cellular Physiology</i> , 2005, 205, 141-157.	2.0	67
21	Delivering hydrophilic and hydrophobic chemotherapeutics simultaneously by magnetic mesoporous silica nanoparticles to inhibit cancer cells. <i>International Journal of Nanomedicine</i> , 2012, 7, 999.	3.3	66
22	Roles of NAD / NADH and NADP+ / NADPH in Cell Death. <i>Current Pharmaceutical Design</i> , 2009, 15, 12-19.	0.9	63
23	Targeted inhibition of SIRT6 via engineered exosomes impairs tumorigenesis and metastasis in prostate cancer. <i>Theranostics</i> , 2021, 11, 6526-6541.	4.6	60
24	Combination delivery of Adjudin and Doxorubicin via integrating drug conjugation and nanocarrier approaches for the treatment of drug-resistant cancer cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1556-1564.	2.9	55
25	Autophagy induction by SIRT6 is involved in oxidative stress-induced neuronal damage. <i>Protein and Cell</i> , 2016, 7, 281-290.	4.8	55
26	Dynamin II interacts with the cadherin- and occludin-based protein complexes at the blood-testis barrier in adult rat testes. <i>Journal of Endocrinology</i> , 2006, 191, 571-586.	1.2	51
27	C-type natriuretic peptide regulates blood-testis barrier dynamics in adult rat testes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3841-3846.	3.3	50
28	FGF2/FGFR1 regulates autophagy in FGFR1-amplified non-small cell lung cancer cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2017, 36, 72.	3.5	50
29	The $\beta$ 1-integrin-p-FAK-p130Cas-DOCK180-RhoA-vinculin is a novel regulatory protein complex at the apical ectoplasmic specialization in adult rat testes. <i>Spermatogenesis</i> , 2011, 1, 73-86.	0.8	36
30	Male contraceptive Adjudin is a potential anti-cancer drug. <i>Biochemical Pharmacology</i> , 2013, 85, 345-355.	2.0	34
31	Unraveling the molecular targets pertinent to junction restructuring events during spermatogenesis using the Adjudin-induced germ cell depletion model. <i>Journal of Endocrinology</i> , 2007, 192, 563-583.	1.2	30
32	Thromboxane A2 Receptor Stimulation Enhances Microglial Interleukin-1 $\beta$ and NO Biosynthesis Mediated by the Activation of ERK Pathway. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 8.	1.7	28
33	CD38 is a key enzyme for the survival of mouse microglial BV2 cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 418, 714-719.	1.0	27
34	Effective Delivery of Male Contraceptives Behind the Blood-Testis Barrier (BTB) – Lesson from Adjudin. <i>Current Medicinal Chemistry</i> , 2016, 23, 701-713.	1.2	23
35	Rab4A GTPase-Catenin Interactions Are Involved in Cell Junction Dynamics in the Testis. <i>Journal of Andrology</i> , 2007, 28, 742-754.	2.0	20
36	Adjudin-mediated junction restructuring in the seminiferous epithelium leads to displacement of soluble guanylate cyclase from adherens junctions. <i>Journal of Cellular Physiology</i> , 2006, 208, 175-187.	2.0	19

#	ARTICLE	IF	CITATIONS
37	&lt;p&gt;Quick synthesis of a novel combinatorial delivery system of siRNA and doxorubicin for a synergistic anticancer effect&lt;/p&gt;. International Journal of Nanomedicine, 2019, Volume 14, 3557-3569.	3.3	17
38	A sirtuin activator and an anti-inflammatory moleculeâ€™ multifaceted roles of adjudin and its potential applications for aging-related diseases. Seminars in Cell and Developmental Biology, 2016, 59, 71-78.	2.3	15
39	Adjudin synergizes with paclitaxel and inhibits cell growth and metastasis by regulating the sirtuin 3â€™Forkhead box O3a axis in human smallâ€™cell lung cancer. Thoracic Cancer, 2019, 10, 642-658.	0.8	14
40	NAD treatment decreases tumor cell survival by inducing oxidative stress. Frontiers in Bioscience - Elite, 2011, E3, 434-441.	0.9	13
41	Antioxidant protects blood-testis barrier against synchrotron radiation X-ray-induced disruption. Spermatogenesis, 2015, 5, e1009313.	0.8	5
42	FGF19 Is Coamplified With CCND1 to Promote Proliferation in Lung Squamous Cell Carcinoma and Their Combined Inhibition Shows Improved Efficacy. Frontiers in Oncology, 2022, 12, 846744.	1.3	3
43	Mesoporous Silica Nanoparticles for Cancer Therapy. , 2013, , 231-242.		0