

# Nan-Shan Chang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97  
papers

1,993  
citations

25  
h-index

42  
g-index

111  
ext. papers

2,576  
ext. citations

3.5  
avg. IF

4.71  
L-index

#	Paper	IF	Citations
97	Normal cells repel WWOX-negative or -dysfunctional cancer cells via WWOX cell surface epitope 286-299. <i>Communications Biology</i> , <b>2021</b> , 4, 753	6.7	2
96	WWOX and Its Binding Proteins in Neurodegeneration. <i>Cells</i> , <b>2021</b> , 10,	7.9	2
95	Functional role of WW domain-containing proteins in tumor biology and diseases: Insight into the role in ubiquitin-proteasome system. <i>FASEB BioAdvances</i> , <b>2020</b> , 2, 234-253	2.8	8
94	Wwox deficiency leads to neurodevelopmental and degenerative neuropathies and glycogen synthase kinase 3-mediated epileptic seizure activity in mice. <i>Acta Neuropathologica Communications</i> , <b>2020</b> , 8, 6	7.3	13
93	Role of Zfra in mitigating epileptic seizure due to WWOX downregulation. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
92	WWOX possesses N-terminal cell surface-exposed epitopes WWOX7-21 and WWOX7-11 for signaling cancer growth suppression and prevention in vivo. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
91	A potential role of Zfra in mitigating traumatic brain injury transition to Alzheimer's disease-like symptom in mice. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
90	Functional antagonism between p53 and WWOX in vivo leads to protein aggregation in the brain. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
89	Deficiency Causes Downregulation of Prosurvival ERK Signaling and Abnormal Homeostatic Responses in Mouse Skin. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 558432	5.7	2
88	WWOX is a Risk Factor for Alzheimer's Disease: How and Why?. <i>Proceedings of the Singapore National Academy of Science</i> , <b>2020</b> , 14, 31-45	0.1	1
87	Therapeutic Zfra4-10 or WWOX7-21 Peptide Induces Complex Formation of WWOX with Selective Protein Targets in Organs that Leads to Cancer Suppression and Spleen Cytotoxic Memory Z Cell Activation In Vivo. <i>Cancers</i> , <b>2020</b> , 12,	6.6	3
86	WW Domain-Containing Proteins YAP and TAZ in the Hippo Pathway as Key Regulators in Stemness Maintenance, Tissue Homeostasis, and Tumorigenesis. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 60	5.3	60
85	Strategies by which WWOX-deficient metastatic cancer cells utilize to survive via dodging, compromising, and causing damage to WWOX-positive normal microenvironment. <i>Cell Death Discovery</i> , <b>2019</b> , 5, 97	6.9	10
84	A p53/TIAF1/WWOX triad exerts cancer suppression but may cause brain protein aggregation due to p53/WWOX functional antagonism. <i>Cell Communication and Signaling</i> , <b>2019</b> , 17, 76	7.5	9
83	Extracellular MIF and Wnt and eph/ephrin signaling are involved in WWOX-regulated cell-cell recognition and migration. <i>FASEB Journal</i> , <b>2019</b> , 33, 790.2	0.9	
82	WWOX drives UV/cold shock-induced bubbling cell death whereas without WWOX cells pop out. <i>FASEB Journal</i> , <b>2019</b> , 33, 646.4	0.9	
81	Role of WWOX and Zfra in limiting neurodegeneration. <i>FASEB Journal</i> , <b>2019</b> , 33, lb253	0.9	

80	WWOX Possesses -Terminal Cell Surface-Exposed Epitopes WWOX and WWOX for Signaling Cancer Growth Suppression and Prevention In Vivo. <i>Cancers</i> , <b>2019</b> , 11,	6.6	5
79	Phosphorylation/de-phosphorylation in specific sites of tumor suppressor WWOX and control of distinct biological events. <i>Experimental Biology and Medicine</i> , <b>2018</b> , 243, 137-147	3.7	15
78	Chasing the signaling run by tri-molecular time-lapse FRET microscopy. <i>Cell Death Discovery</i> , <b>2018</b> , 4, 45	6.9	11
77	Fast and improved bioimaging via temporal focusing multiphoton excitation microscopy with binary digital-micromirror-device holography. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-8	3.5	5
76	Natural zeolite for adsorbing and release of functional materials. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-7	3.5	11
75	Induction of cancer stem cell sphere explosion by UV irradiation/cold shock or therapeutic chemicals: detection of autofluorescence using visible wavelength. <i>FASEB Journal</i> , <b>2018</b> , 32, 664.4	0.9	
74	Converting the tumor suppressor function of WWOX to tumor promoting by Serine 14 phosphorylation. <i>FASEB Journal</i> , <b>2018</b> , 32, 668.11	0.9	
73	TRAPPC6A/TIAF1 and SH3GLB2 are initiators for amyloid beta plaque formation and tau aggregation in vivo. <i>FASEB Journal</i> , <b>2018</b> , 32, 674.9	0.9	
72	WWOX Phosphorylation, Signaling, and Role in Neurodegeneration. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 563	5.1	21
71	Zfra restores memory deficits in Alzheimer's disease triple-transgenic mice by blocking aggregation of TRAPPC6A/SH3GLB2, tau, and amyloid $\beta$ and inflammatory NF- $\kappa$ B activation. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , <b>2017</b> , 3, 189-204	6	19
70	Hyaluronan activates Hyal-2/WWOX/Smad4 signaling and causes bubbling cell death when the signaling complex is overexpressed. <i>Oncotarget</i> , <b>2017</b> , 8, 19137-19155	3.3	19
69	Role of WW Domain-containing Oxidoreductase WWOX in Driving T Cell Acute Lymphoblastic Leukemia Maturation. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 17319-31	5.4	18
68	WWOX coordinates with type II TGF-beta receptor in regulating cell-to-cell recognition and immune cell differentiation. <i>FASEB Journal</i> , <b>2016</b> , 30, 1108.9	0.9	
67	HYAL-2-WWOX-SMAD4 Signaling in Cell Death and Anticancer Response. <i>Frontiers in Cell and Developmental Biology</i> , <b>2016</b> , 4, 141	5.7	21
66	Bubbling cell death: A hot air balloon released from the nucleus in the cold. <i>Experimental Biology and Medicine</i> , <b>2016</b> , 241, 1306-15	3.7	13
65	Zfra induction of memory anticancer response via a novel immune cell. <i>Oncolmmunology</i> , <b>2016</b> , 5, e1213935		5
64	Fabrication of three-dimensional multi-protein microstructures for cell migration and adhesion enhancement. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 480-90	3.5	23
63	WWOX suppresses prostate cancer cell progression through cyclin D1-mediated cell cycle arrest in the G1 phase. <i>Cell Cycle</i> , <b>2015</b> , 14, 408-16	4.7	24

62	Strategies of oncogenic microbes to deal with WW domain-containing oxidoreductase. <i>Experimental Biology and Medicine</i> , <b>2015</b> , 240, 329-37	3.7	8
61	Introduction to a thematic issue for WWOX. <i>Experimental Biology and Medicine</i> , <b>2015</b> , 240, 281-4	3.7	12
60	Trafficking protein particle complex 6A delta (TRAPPC6A) is an extracellular plaque-forming protein in the brain. <i>Oncotarget</i> , <b>2015</b> , 6, 3578-89	3.3	30
59	Zfra activates memory Hyal-2+ CD3- CD19- spleen cells to block cancer growth, stemness, and metastasis in vivo. <i>Oncotarget</i> , <b>2015</b> , 6, 3737-51	3.3	15
58	UV irradiation/cold shock-mediated apoptosis is switched to bubbling cell death at low temperatures. <i>Oncotarget</i> , <b>2015</b> , 6, 8007-18	3.3	20
57	Expression of WW domain-containing oxidoreductase WWOX in pterygium. <i>Molecular Vision</i> , <b>2015</b> , 21, 711-7	2.3	5
56	WWOX Regulation of Cancer Stem Cell Sphere Formation. <i>FASEB Journal</i> , <b>2015</b> , 29, 629.1	0.9	
55	Hyal-2 antibody mediates cancer suppression via Hyal-2/WWOX/Smad4 signaling. <i>FASEB Journal</i> , <b>2015</b> , 29, 897.29	0.9	
54	Role of WWOX and ERK in Controlling Cancer Cell Migration. <i>FASEB Journal</i> , <b>2015</b> , 29, 577.3	0.9	
53	Folate deficiency-induced oxidative stress contributes to neuropathy in young and aged zebrafish—implication in neural tube defects and Alzheimer's diseases. <i>Neurobiology of Disease</i> , <b>2014</b> , 71, 234-44	7.5	37
52	Visualization of subunit interactions and ternary complexes of protein phosphatase 2A in mammalian cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e116074	3.7	12
51	UV irradiation/cold shock-induced NOS2 expression for causing nuclear bubbling is WWOX and p53 dependent (1010.11). <i>FASEB Journal</i> , <b>2014</b> , 28, 1010.11	0.9	
50	Role of WWOX and NF- $\kappa$ B in lung cancer progression (1049.2). <i>FASEB Journal</i> , <b>2014</b> , 28, 1049.2	0.9	
49	Self-aggregating TIAF1 in lung cancer progression. <i>Translational Respiratory Medicine</i> , <b>2013</b> , 1, 5		12
48	WW domain-containing oxidoreductase is involved in upregulation of matrix metalloproteinase 9 by Epstein-Barr virus latent membrane protein 2A. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 436, 672-6	3.4	11
47	Tumor Suppressor WWOX and p53 Alterations and Drug Resistance in Glioblastomas. <i>Frontiers in Oncology</i> , <b>2013</b> , 3, 43	5.3	19
46	Assessing current therapeutic approaches to decode potential resistance mechanisms in glioblastomas. <i>Frontiers in Oncology</i> , <b>2013</b> , 3, 59	5.3	7
45	High-throughput fabrication of gray-level biomicrostructures via temporal focusing excitation and laser pulse control. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 75004	3.5	7

44	Role of WWOX and NF- $\kappa$ B in lung cancer progression. <i>Translational Respiratory Medicine</i> , <b>2013</b> , 1, 15		17
43	Expression of WW Domain-Containing Oxidoreductase WOX1 in Human Nervous System Tumors. <i>Analytical Cellular Pathology</i> , <b>2013</b> , 36, 133-147	3-4	5
42	Expression of WW domain-containing oxidoreductase WOX1 in human nervous system tumors. <i>Analytical Cellular Pathology</i> , <b>2013</b> , 36, 133-47	3-4	8
41	Physically modified hyaluronan in cancer prevention. <i>FASEB Journal</i> , <b>2013</b> , 27, 592.5	0.9	
40	Tumor suppressor WWOX participates in cell/cell recognition and migration. <i>FASEB Journal</i> , <b>2013</b> , 27, 765.1	0.9	
39	Immunization against hyaluronidase Hyal-2 provides long-term cancer prevention. <i>FASEB Journal</i> , <b>2013</b> , 27, 592.4	0.9	
38	Overexpression of WW domain-containing oxidoreductase WOX1 preferentially induces apoptosis in human glioblastoma cells harboring mutant p53. <i>Biomedicine and Pharmacotherapy</i> , <b>2012</b> , 66, 433-8	7-5	18
37	Prc contributes to Escherichia coli evasion of classical complement-mediated serum killing. <i>Infection and Immunity</i> , <b>2012</b> , 80, 3399-409	3-7	25
36	Spatiotemporal focusing-based widefield multiphoton microscopy for fast optical sectioning. <i>Optics Express</i> , <b>2012</b> , 20, 8939-48	3-3	61
35	Investigation of two-photon excited fluorescence increment via crosslinked bovine serum albumin. <i>Optics Express</i> , <b>2012</b> , 20, 13669-76	3-3	17
34	TIAF1 self-aggregation causes spontaneous activation of SMAD-responsive promoter in p53-deficient environment and cell death. <i>FASEB Journal</i> , <b>2012</b> , 26, 797.3	0.9	
33	Self-aggregating mutant TRAPPC6A from partial exon 1 gene deletion activates caspases, binds TIAF1, and generates amyloid beta in hippocampus. <i>FASEB Journal</i> , <b>2012</b> , 26, 752.2	0.9	
32	A Copper Complex, ghn-12, as a sensitization of DNA to UVA offers potential for a novel photochemotherapy. <i>FASEB Journal</i> , <b>2012</b> , 26, 999.5	0.9	
31	WWOX/WOX1 is essential in UV irradiation/frostbite-induced membrane bubbling. <i>FASEB Journal</i> , <b>2012</b> , 26, 798.8	0.9	
30	Evidence for a role of p53, WWOX and TIAF1 as tumor suppression axis. <i>FASEB Journal</i> , <b>2012</b> , 26, 782.3	0.9	
29	Identification of an In Vivo MEK/WOX1 Complex as a Master Switch for Apoptosis in T Cell Leukemia. <i>Genes and Cancer</i> , <b>2011</b> , 2, 550-62	2-9	27
28	TIAF1 is an essential partner for tumor suppressors p53- and WWOX-mediated apoptosis. <i>FASEB Journal</i> , <b>2011</b> , 25, 943.4	0.9	
27	Signaling from membrane receptors to tumor suppressor WW domain-containing oxidoreductase. <i>Experimental Biology and Medicine</i> , <b>2010</b> , 235, 796-804	3-7	47

26	Zfra is a small wizard in the mitochondrial apoptosis. <i>Aging</i> , <b>2010</b> , 2, 1023-9	5.6	13
25	TIAF1 self-aggregation is essential for A $\beta$ plaque formation in the human hippocampus. <i>FASEB Journal</i> , <b>2010</b> , 24, 1053.1	0.9	
24	C1q/WOX1 signaling for superinduction of microvillus cluster formation. <i>FASEB Journal</i> , <b>2010</b> , 24, 711.2	0.9	
23	Dramatic co-activation of WWOX/WOX1 with CREB and NF-kappaB in delayed loss of small dorsal root ganglion neurons upon sciatic nerve transection in rats. <i>PLoS ONE</i> , <b>2009</b> , 4, e7820	3.7	43
22	Transforming growth factor beta1 signaling via interaction with cell surface Hyal-2 and recruitment of WWOX/WOX1. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 16049-59	5.4	63
21	Complement C1q activates tumor suppressor WWOX to induce apoptosis in prostate cancer cells. <i>PLoS ONE</i> , <b>2009</b> , 4, e5755	3.7	73
20	MPP <sup>+</sup> -induced neuronal death in rats involves tyrosine 33 phosphorylation of WW domain-containing oxidoreductase WOX1. <i>European Journal of Neuroscience</i> , <b>2008</b> , 27, 1634-46	3.5	27
19	Zfra is an inhibitor of Bcl-2 expression and cytochrome c release from the mitochondria. <i>Cellular Signalling</i> , <b>2008</b> , 20, 1303-12	4.9	18
18	Zfra affects TNF-mediated cell death by interacting with death domain protein TRADD and negatively regulates the activation of NF-kappaB, JNK1, p53 and WOX1 during stress response. <i>BMC Molecular Biology</i> , <b>2007</b> , 8, 50	4.5	39
17	WW domain-containing oxidoreductase: a candidate tumor suppressor. <i>Trends in Molecular Medicine</i> , <b>2007</b> , 13, 12-22	11.5	101
16	Zfra invokes a novel mitochondrial pathway of cell death bypassing cytochrome c release. <i>FASEB Journal</i> , <b>2007</b> , 21, A1345	0.9	
15	Cloning and characterization of a small-size peptide Zfra that regulates the cytotoxic function of tumor necrosis factor by interacting with JNK1. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 327, 415-23	3.4	14
14	17beta-Estradiol upregulates and activates WOX1/WWOXv1 and WOX2/WWOXv2 in vitro: potential role in cancerous progression of breast and prostate to a premetastatic state in vivo. <i>Oncogene</i> , <b>2005</b> , 24, 714-23	9.2	73
13	WOX1 is essential for UVB irradiation-induced apoptosis and down-regulated via translational blockade in UVB-induced cutaneous squamous cell carcinoma in vivo. <i>Clinical Cancer Research</i> , <b>2005</b> , 11, 5769-77	12.9	58
12	WOX1 is essential for tumor necrosis factor-, UV light-, staurosporine-, and p53-mediated cell death, and its tyrosine 33-phosphorylated form binds and stabilizes serine 46-phosphorylated p53. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 43100-8	5.4	99
11	Down-regulation of WW domain-containing oxidoreductase induces Tau phosphorylation in vitro. A potential role in Alzheimer's disease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 30498-506	5.4	90
10	TIAF1 and p53 functionally interact in mediating apoptosis and silencing of TIAF1 abolishes nuclear translocation of serine 15-phosphorylated p53. <i>DNA and Cell Biology</i> , <b>2004</b> , 23, 67-74	3.6	16
9	JNK1 physically interacts with WW domain-containing oxidoreductase (WOX1) and inhibits WOX1-mediated apoptosis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 9195-202	5.4	105

8	Molecular mechanisms underlying WOX1 activation during apoptotic and stress responses. <i>Biochemical Pharmacology</i> , <b>2003</b> , 66, 1347-54	6	62
7	TIAF1 participates in the transforming growth factor beta1--mediated growth regulation. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 995, 11-21	6.5	12
6	Transforming growth factor-beta1 blocks the enhancement of tumor necrosis factor cytotoxicity by hyaluronidase Hyal-2 in L929 fibroblasts. <i>BMC Cell Biology</i> , <b>2002</b> , 3, 8		29
5	The non-ankyrin C terminus of Ikappa Balpha physically interacts with p53 in vivo and dissociates in response to apoptotic stress, hypoxia, DNA damage, and transforming growth factor-beta 1-mediated growth suppression. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 10323-31	5.4	44
4	A potential role of p53 and WOX1 in mitochondrial apoptosis (review). <i>International Journal of Molecular Medicine</i> , <b>2002</b> , 9, 19-24	4.4	37
3	Hyaluronidase induction of a WW domain-containing oxidoreductase that enhances tumor necrosis factor cytotoxicity. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 3361-70	5.4	175
2	Cloning and characterization of a novel transforming growth factor-beta1-induced TIAF1 protein that inhibits tumor necrosis factor cytotoxicity. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 253, 743-9	3.4	28
1	Hyaluronidase enhancement of TNF-mediated cell death is reversed by TGF-beta 1. <i>American Journal of Physiology - Cell Physiology</i> , <b>1997</b> , 273, C1987-94	5.4	29