

Biography

Name: Wei Wang

Address: the 3rd Xiangya Hospital of Xiangya Medical College at
Centrol-South University

NO.138# Tongzipo Road, Yuelu Distrect, Changsha, Hunan,

410013

P. R. China

Education Backgroud

Degree	Date	Institution
Bachelor in Medicine	7/1982	Hunan Medical University
Master in Medical Imageology	7/1989	Hunan Medical University
Ph.D in enetics	11/2002	Central South University

Professional activities

Membership

Local Organizing Committee of WHO's 1st and 3th International Consultation on Regulatory Requirements for Xenotransplantation Clinical Trials, held in Changsha, PRC in 2008 and 2018

Chinese Ministry of health, expert of the three category of medical technology review expert group , member of management expert committee members of the clinical human body cell research and in-vitro preparation technology

Chair of The 3rd Symposium of East Asia Xenotransplantation Association

Member of the International Xenotransplantation Association

Member of The Transplantation Society

Deputy Director of xenotransplantation branch of Chinese Association of Organ Transplantation

Deputy Director of Molecular imaging branch of Chinese Association of Radiology

Research Support

National key research and development program

Preclinical evaluation of the safety and effectiveness of xenografts

CO-PI: Wei Wang, September, 2019 – December, 2023

National Nature Science Foundation Grant of China

“Experimental transartery intrahepatic xenotransplantation of bioartificial pancreas”

PI: Wei Wang, January, 1998 – December, 2000

National Nature Science Foundation Grant of China

“CT guide transplantation of Adeno-Associated Viral Vector expressing tyrosine hydroxylase in the Brain”

PI: Wei Wang, January, 1999-December, 2001

National Nature Science Foundation Grant of China

AAV transduction of pancreatic islet cells to express CTLA-ig blocks the activation of xenogeneic host T cells in the liver

PI: Wei Wang, January, 2002-December, 2004

National Nature Science Foundation Grant of China

Mechanism study of hypoxia-induced necroptosis in islet grafts via

molecular imaging

PI: Wei Wang, January, 2017-December, 2020

National Nature Science Foundation Grant of China

The mechanisms of Teff/Treg function regulated by metabolic microenvironment in tumor progress--a visualization study

PI: Wei Wang, January, 2020-December, 2022

Publication

Professor Wei Wang has made several contributions to the fields of xenotransplantation with published more than 100 publications including J Hematol Oncol, EMBO Mol Med, Theranostics, Nat Commun.

No.	Title	Journal	Year	IF	Corresponding Author
1	Precision Cancer Theranostic Platform by In Situ Polymerization in Perylene Diimide-Hybridized Hollow Mesoporous Organosilica Nanoparticles.	Journal of the American Chemical Society	2019 ;141(37):14687-14698	14.612	Yes
2	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics	Angewandte Chemie International Edition	2018 ;57(43):14101-14105.	12.959	Yes
3	In Vivo Chemoembolization and Magnetic Resonance Imaging of Liver Tumors by Using Iron Oxide Nanoshell/Doxorubicin/Poly(vinyl alcohol) Hybrid Composites	Angewandte Chemie International Edition	2014;53(19):4812-5	12.959	Yes
4	Early prediction of disease progression in COVID-19 pneumonia patients with chest CT and clinical characteristics.	Nat Commun	2020 Oct 2;11(1):4968	12.121	Yes
5	Ubiquitination of the DNA-damage checkpoint kinase CHK1 by TRAF4 is required for CHK1 activation	J Hematol Oncol	2020 May 1;13(1):40.	11.059	Yes
6	IL-10 producing type 2 innate lymphoid cells prolong islet allograft survival	EMBO Mol Med	2020 Oct 9;e12305	8.821	Yes
7	Photosensitizer loaded nano-graphene for multimodality imaging guided tumor photodynamic therapy.	Theranostics	2014 Jan 15;4(3):229-39.	8.0630	Yes
8	Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging	Theranostics	2019 Jan 1;9(2):526-536	8.0630	Yes
9	Protein-based photothermal theranostics for imaging-guided cancer therapy	NANOSCALE	2015,7(39):16330-16336	6.9700	Yes

10	Skp2-mediated Ubiquitination and Mitochondrial Localization of Akt Drive Tumor Growth and Chemoresistance to Cisplatin	Oncogene	2019, 38 (50), 7457-7472	6.6340	Yes
11	Clinical Factors Associated with Progression and Prolonged Viral Shedding in COVID-19 Patients: A Multicenter Study.	Aging Dis	2020 Oct 1;11(5):1069-1081	5.402	Yes
12	Deguelin inhibits non-small cell lung cancer via down-regulating Hexokinases II-mediated glycolysis.	Oncotarget	2017;8(20):32586-3 2599	5.1680	Yes
13	EZH2-mediated Puma gene repression regulates non-small cell lung cancer cell proliferation and cisplatin-induced apoptosis.	Oncotarget	2016;7(35):56338-5 6354.	5.1680	Yes
14	Dynamic neural circuit disruptions associated with antisocial behaviors	Hum Brain Mapp	2020 Oct 16	4.421	Yes
15	Dual-Modality Noninvasive Mapping of Sentinel Lymph Node by Photoacoustic and Near-Infrared Fluorescent Imaging Using Dye-Loaded Mesoporous Silica Nanoparticles.	Mol Pharm	2015 Sep 8;12(9):3119-28	4.3960	Yes
16	Chest CT Features of 182 Patients with Mild Coronavirus Disease 2019 (COVID-19) Pneumonia: A Longitudinal, Retrospective and Descriptive Study	Infect Dis Ther	2020 Oct 16;1-13	4.307	Yes
17	Specific siRNA Targeting Receptor for Advanced Glycation End Products (RAGE) Decreases Proliferation in Human Breast Cancer Cell Lines.	Int J Mol Sci	2013 Apr 11;14(4):7959-78.	4.1830	Yes
18	Prognostic Value of Lordosis Decrease in Radiographic Adjacent Segment Pathology After Anterior Cervical Corpectomy and Fusion.	Sci Rep	2017 Oct 31;7(1):14414.	4.0110	Yes
19	Reduced White Matter Integrity in Antisocial Personality Disorder: A Diffusion Tensor Imaging Study.	Sci Rep	2017 Feb 22;7:43002	4.0110	Yes

20	Machine learning-based quantitative texture analysis of CT images of small renal masses: Differentiation of angiomyolipoma without visible fat from renal cell carcinoma.	Eur Radiol	2018 Apr;28(4):1625-1633	3.9620	Yes
21	Changes in default mode network connectivity in different glucose metabolism status and diabetes duration	Neuroimage Clin	2019;21:101629	3.9430	Yes
22	Intravoxel incoherent motion MRI for predicting early response to induction chemotherapy and chemoradiotherapy in patients with nasopharyngeal carcinoma	J Magn Reson Imaging	2016,43(5): 1179–1190	3.7320	Yes
23	Recovery of Neurological Functions in Non-Human Primate Model of Parkinson's Disease by Transplantation of Encapsulated Neonatal Porcine Choroid Plexus Cells	J Parkinsons Dis	2013 Jan 1;3(3):275-91.	3.6980	Yes
24	Pathological Between-Network Positive Connectivity in Early Type 2 Diabetes Patients Without Cerebral Small Vessel Diseases	Front Neurosci	2019 Jul 16;13:731	3.6480	Yes
25	Chemical probes for drug-induced liver injury imaging	Future Med Chem	2020 May;12(9):835-852	3.6170	Yes
26	Human mesenchymal-stem-cells-derived exosomes are important in enhancing porcine islet resistance to hypoxia	Xenotransplantation	2018 Jun 22:e12405.	3.4840	Yes
27	Culturing with modified EGM2 medium enhances porcine neonatal islet-like cell clusters resistance to apoptosis in islet xenotransplantation.	Xenotransplantation	2018 Jan;25(1). doi: 10.1111/xen.12358	3.4840	Yes
28	Hepatic artery vs. portal vein infusion of microbeads: a large animal pre-clinical model evaluating the intrahepatic capacity for cell infusion and imaging	Xenotransplantation	2010: 17: 207–214.	3.4840	Frist Author

29	Human mesenchymal stem cells-derived conditioned medium inhibits hypoxia-induced death of neonatal porcine islets by inducing autophagy	Xenotransplantation	2019 Oct 2:e12556	3.4840	Yes
30	Tissue Factor knockdown in Porcine Islets: An Effective Approach to Suppressing the Instant Blood-Mediated Inflammatory Reaction	Cell Transplant	2012;21(1):61-71.	3.4770	Yes
31	Suppressor of activator protein-1 regulated by interferon expression in prostate cancer tissues and cells	Life Sci	2019 Sep 1;232:116626	3.4480	Yes
32	Disrupted functional connectome in antisocial personality disorder.	Brain Imaging Behav	2016 Aug 19.	3.4180	Yes
33	Resveratrol inhibits Hexokinases II mediated glycolysis in non-small cell lung cancer via targeting Akt signaling pathway.	Exp Cell Res	2016 Nov 6. pii: S0014-4827(16)30365-2.	3.3290	Yes
34	Comparing the Efficacy and Safety of High-Intensity Focused Ultrasound and Uterine Artery Embolization in Caesarean Scar Pregnancy: A Meta-analysis	Adv Ther	2019;36(6):1314-1325	3.2600	Yes
35	Reduced cortical thickness and increased surface area in antisocial personality disorder.	Neuroscience	2016 Nov 19;337:143-152.	3.2440	Yes
36	A functional MRI study of deception among offenders with antisocial personality disorders	Neuroscience	2013 Aug 6;244:90-8.	3.2440	Yes
37	Increased serum malondialdehyde levels are associated with grey matter volume loss in patients with non-alcoholic cirrhosis	Quant Imaging Med Surg	2019 Feb;9(2):230-237	3.0740	Yes

38	Intravoxel incoherent motion derived liver perfusion/diffusion readouts can be reliable biomarker for the detection of viral hepatitis B induced liver fibrosis	Quant Imaging Med Surg	2019 Mar;9(3):371-385	3.0740	Yes
39	Fluorescence dye loaded nano-graphene for multimodal imaging guided photothermal therapy	RSC ADVANCES	2016,6(3):1894-1901	3.0490	Yes
40	The engineered Salmonella typhimurium inhibits tumorigenesis in advanced glioma.	Onco Targets Ther	2015 Sep 15;8:2555-63.	3.0460	Yes
41	miR-328-5p inhibits MDA-MB-231 breast cancer cell proliferation by targeting RAGE.	Oncol Rep	2018;39(6):2906-2914	3.0410	Yes
42	Mesenchymal stem cells alleviate hypoxia-induced oxidative stress and enhance the pro-survival pathways in porcine islets	Exp Biol Med (Maywood)	2019 Jun;244(9):781-788	3.0050	Yes
43	Mouse Umbilical Cord Mesenchymal Stem Cell Paracrine Alleviates Renal Fibrosis in Diabetic Nephropathy by Reducing Myofibroblast Transdifferentiation and Cell Proliferation and Upregulating MMPs in Mesangial Cells.	J Diabetes Res	2020 May 2;2020:3847171	2.965	Yes
44	Changes in low-frequency fluctuations in patients with antisocial personality disorder revealed by resting-state functional MRI.	PLoS One	2014 Mar 5;9(3):e89790.	2.7660	Yes
45	Identifying Individuals with Antisocial Personality Disorder Using Resting-State fMRI.	PLoS ONE	2013,8(4): e60652.	2.7660	Yes
46	Hypoxia potentiates LPS-induced inflammatory response and increases cell death by promoting NLRP3 inflammasome activation in pancreatic β cells.	Biochem Biophys Res Commun	2018 Jan 22;495(4):2512-2518.	2.7050	Yes
47	Efficient generation of GGTA1-null Diannan miniature pigs using TALENs combined with somatic cell nuclear transfer.	Reprod Biol Endocrinol	2016 Nov 8;14(1):77.	2.5890	Yes

48	Liver vessel segmentation based on extreme learning machine.	Phys Med	2016 May;32(5):709-16.	2.5320	Yes
49	Efficient liver segmentation in CT images based on graph cuts and bottleneck detection.	Phys Med	2016 Oct 19. pii: S1120-1797(16)309 49-8.	2.5320	Yes
50	Prognosis of posterior osteophyte after anterior cervical decompression and fusion in patients with cervical spondylotic myelopathy using three-dimensional computed tomography study.	Eur Spine J	2016 Jun;25(6):1861-8.	2.5130	Yes
51	Characterization of PERV in a new conserved pig herd as potential donor animals for xenotransplantation in China.	Virology Journal	2014;11(1):212.	2.4640	Yes
52	Decoding the processing of lying using functional connectivity MRI.	Behav Brain Funct	2015 Jan 17;11(1):1.	2.4570	Yes
53	Discrimination between Metastatic and Nonmetastatic Mesorectal Lymph Nodes in Rectal Cancer Using Intravoxel Incoherent Motion Diffusion-weighted Magnetic Resonance Imaging.	Acad Radiol	2016 Apr;23(4):479-85.	2.2670	Yes
54	Identification of age and sex based on knee radiography.	Forensic Sci Int	2016 ;267:231.e1-2 31.e7	1.9900	Yes
55	Carboxyl of Poly(D,L-lactide-co-glycolide) Nanoparticles of Perfluorooctyl Bromide for Ultrasonic Imaging of Tumor.	Contrast Media Mol Imaging	2018 Feb 7;2018:2957459.	1.9840	Yes
56	Effects of Aquaporin 4 Knockdown on Brain Edema of the Uninjured Side After Traumatic Brain Injury in Rats.	Med Sci Monit	2016 Dec 8;22:4809-4819.	1.9800	Yes

57	Intra-arterial delivery of superparamagnetic iron-oxide nanoshell and polyvinyl alcohol based chemoembolization system for the treatment of liver tumor.	Discov Med	2017 Jan;23(124):27-39	1.9290	Yes
58	Enhanced Ablation of High Intensity Focused Ultrasound with Microbubbles: An Experimental Study on Rabbit Hepatic VX2 Tumors	Cardiovasc Intervent Radiol	2011, 34(5):1050-1057	1.9280	Yes
59	Investigation of cerebral iron deposition in aged patients with ischemic cerebrovascular disease using susceptibility-weighted imaging.	Ther Clin Risk Manag	2016 Aug 16;12:1239-47.	1.8240	Yes
60	Assessment of traumatic brain injury degree in animal model.	Asian Pac J Trop Med	2014 Dec;7(12):991-5.	1.7720	Yes
61	Generation of GTKO Diannan Miniature Pig Expressing Human Complementary Regulator Proteins hCD55 and hCD59 via T2A Peptide-Based Bicistronic Vectors and SCNT.	Mol Biotechnol	2018 Jun 18. doi: 10.1007/s12033-018-0091-6	1.7120	Yes
62	Percutaneous transhepatic portal catheterization guided by ultrasound technology for islet transplantation in rhesus monkey	Hepatobiliary Pancreat Dis Int	2012;11:154-159.	1.5760	Yes
63	Magnetic fluid hyperthermia induced by radiofrequency capacitive field for the treatment of transplanted subcutaneous tumors in rats	Exp Ther Med	2012;3(2):279-284.	1.4480	Yes
64	Fulvic acid coated iron oxide nanoparticles for magnetic resonance imaging contrast agent	Functional Materials Letters	2010;3(3):197-200	1.3880	Yes
65	Intravoxel Incoherent Motion Diffusion Weighted Magnetic Resonance Imaging for Differentiation Between Nasopharyngeal Carcinoma and Lymphoma at the Primary Site	J Comput Assist Tomogr	2016 Mar 7.	1.3010	Yes

66	Report of a Fatal Pediatric Case of Hemoph agocytic Lympho histiocytosis Associated with Pandemic Influenza A (H1N1) Infection in 2009.	Pediatrics and Neonatology	2013 Apr 18. pii: S1875-9572(13)00041-7.	1.2320	Yes
67	Altered spontaneous activity in antisocial personality disorder revealed by Regional Homogeneity	NeuroReport	2013 Aug 7;24(11):590-5	1.1460	Yes
68	Drug-containing gelatin treats as an alternative to gavage for long-term oral administration in rhesus monkeys (Macaca mulatta).	J Am Assoc Lab Anim Sci	2012 Nov;51(6):842-6	1.0170	Yes
69	Investigation of Porcine Endogenous Retrovirus in the Conservation Population of Ningxiang Pig	Transplantation Proceedings	2009,41:4389-4393	0.9590	Yes