



碧云天生物技术/Beyotime Biotechnology
 订货热线: 400-1683301或800-8283301
 订货e-mail: order@beyotime.com
 技术咨询: info@beyotime.com
 网址: http://www.beyotime.com

DAPI 染色液

产品编号	产品名称	包装
C1006	DAPI染色液	50ml

产品简介:

- DAPI染色液(DAPI Staining Solution)是经过精心优化几乎适用于所有常见细胞和组织细胞核染色的染色液。
- DAPI, 即 2-(4-Amidinophenyl)-6-indolecarbamide dihydrochloride, 也称 DAPI dihydrochloride, 分子式为 $C_{16}H_{15}N_5 \cdot 2HCl$, 分子量为350.25, CAS Number 28718-90-3。
- DAPI是一种可以穿透细胞膜的蓝色荧光染料。和双链DNA结合后可以产生比DAPI自身强20多倍的荧光。和EB(ethidium bromide)相比, 对双链DNA的染色灵敏度要高很多倍。
- DAPI染色常用于细胞凋亡检测, 染色后用荧光显微镜观察或流式细胞仪检测。DAPI也常用于普通的细胞核染色以及某些特定情况下的双链DNA染色。
- DAPI的最大激发波长为340nm, 最大发射波长为488nm; DAPI和双链DNA结合后, 最大激发波长为364nm, 最大发射波长为454nm。
- 本DAPI染色液可以直接用于固定细胞或组织的细胞核染色。

包装清单:

产品编号	产品名称	包装
C1006	DAPI 染色液	50ml
—	说明书	1份

保存条件:

-20°C避光保存, 一年有效。

注意事项:

- 本DAPI染色液的浓度经过碧云天的优化, 确保可以满足各种常规染色的需要。如需使用特定浓度的DAPI, 请选购碧云天的DAPI (C1002)。
- 荧光染料都存在淬灭的问题, 建议染色后尽量当天完成检测。
- 为减缓荧光淬灭可以使用抗荧光淬灭封片液。抗荧光淬灭封片液(P0126)可以向碧云天订购。
- DAPI对人体有刺激性, 操作时请小心, 并注意适当防护以避免直接接触人体或吸入体内。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

使用说明:

1. 对于细胞或组织样品, 固定后, 适当洗涤去除固定剂。随后如果需要免疫荧光染色, 则先进行免疫荧光染色, 染色完毕后再按后续步骤进行DAPI染色。如果不需要进行其它染色, 则直接进行后续的DAPI染色。
2. 对于贴壁细胞或组织切片, 加入少量DAPI染色液, 覆盖住样品即可。对于悬浮细胞, 至少加入待染色样品体积3倍的染色液, 混匀。
3. 室温放置3-5分钟。
4. 吸除DAPI染色液, 用TBST、PBS或生理盐水洗涤2-3次, 每次3-5分钟。
5. 直接在荧光显微镜下观察或封片后荧光显微镜下观察。细胞发生凋亡时, 会看到凋亡细胞的细胞核呈致密浓染, 或呈碎块状致密浓染。

相关产品:

产品编号	产品名称	包装
C1002	DAPI	5mg/ml × 0.2ml
C1005	DAPI染色液	10ml
C1006	DAPI染色液	50ml
C1011	Hoechst 33258	10mg
C1017	Hoechst 33258染色液	10ml

C1018	Hoechst 33258染色液	50ml
C1022	Hoechst 33342	10mg
C1025	Hoechst 33342染色液	10ml
C1026	Hoechst 33342染色液	50ml
C1027	Hoechst 33342活细胞染色液(100X)	0.1ml
C1028	Hoechst 33342活细胞染色液(100X)	0.5ml
C1029	Hoechst 33342活细胞染色液(100X)	3ml

使用本产品的文献：

- Zhou H, Qian J, Wang J, Yao W, Liu C, Chen J, Cao X. Enhanced bioactivity of bone morphogenetic protein-2 with low dose of 2-N, 6-O-sulfated chitosan in vitro and in vivo. *Biomaterials*. 2009 Mar;30(9):1715-24.
- Xu H, Wang P, Fu Y, Zheng Y, Tang Q, Si L, You J, Zhang Z, Zhu Y, Zhou L, Wei Z, Lin B, Hu L, Kong X. Length of the ORF, position of the first AUG and the Kozak motif are important factors in potential dual-coding transcripts. *Cell Res*. 2010 Apr;20(4):445-57.
- Wang J, Chen B, Cheng J, Cai X, Xia G, Liu R, Wang X. Apoptotic mechanism of human leukemia K562/A02 cells induced by magnetic iron oxide nanoparticles co-loaded with daunorubicin and 5-bromotetrandrin. *INT J NANOMED*. 2011;6:1027-34.
- Xiang P, Li M, Zhang CY, Chen DL, Zhou ZH. Cytocompatibility of electrospun nanofiber tubular scaffolds for small diameter tissue engineering blood vessels. *Int J Biol Macromol*. 2011 Oct 1;49(3):281-8.
- Yang XZ, Dou S, Sun TM, Mao CQ, Wang HX, Wang J. Systemic delivery of siRNA with cationic lipid assisted PEG-PLA nanoparticles for cancer therapy. *J Control Release*. 2011 Dec 10;156(2):203-11.
- Li Y, Sun WG, Liu HK, Qi GY, Wang Q, Sun XR, Chen BQ, Liu JR. γ -Tocotrienol inhibits angiogenesis of human umbilical vein endothelial cell induced by cancer cell. *J Nutr Biochem*. 2011 Dec;22(12):1127-36.
- Hu X, Chen Z, Mao X, Tang S. Effects of phenytoin and Echinacea purpurea extract on proliferation and apoptosis of mouse embryonic palatal mesenchymal cells. *J Cell Biochem*. 2011 May;112(5):1311-7.
- Li X, Chen D, Le C, Zhu C, Gan Y, Hovgaard L, Yang M. Novel mucus-penetrating liposomes as a potential oral drug delivery system: preparation, in vitro characterization, and enhanced cellular uptake. *INT J NANOMED*. 2011;6:3151-62.
- Mao CQ, Du JZ, Sun TM, Yao YD, Zhang PZ, Song EW, Wang J. A biodegradable amphiphilic and cationic triblock copolymer for the delivery of siRNA targeting the acid ceramidase gene for cancer therapy. *Biomaterials*. 2011 Apr;32(11):3124-33.
- Li C, Zheng Y, Wang X, Xia W, Gao H, Li D, Ma X. Bone marrow-derived stem cells contribute skin regeneration in skin and soft tissue expansion. *J Cell Physiol*. 2011 Nov;226(11):2834-40.
- Cheng J, Wang J, Chen B, Xia G, Cai X, Liu R, Ren Y, Bao W, Wang X. A promising strategy for overcoming MDR in tumor by magnetic iron oxide nanoparticles co-loaded with daunorubicin and 5-bromotetrandrin. *INT J NANOMED*. 2011;6:2123-31.
- Shen L, Xu W, Li A, Ye J, Zhou J. JWA enhances As2O3-induced tubulin polymerization and apoptosis via p38 in HeLa and MCF-7 cells. *Apoptosis*. 2011 Nov;16(11):1177-93.
- Li F, Li QH, Wang JY, Zhan CY, Xie C, Lu WY. Effects of interferon-gamma liposomes targeted to platelet-derived growth factor receptor-beta on hepatic fibrosis in rats. *J Control Release*. 2012 Apr 30;159(2):261-70.
- Li H, Gao F, Ma L, Jiang J, Miao J, Jiang M, Fan Y, Wang L, Wu D, Liu B, Wang W, Lui VC, Yuan Z. Therapeutic potential of in utero mesenchymal stem cell (MSCs) transplantation in rat fetuses with spina bifida aperta. *J Cell Mol Med*. 2012 Jul;16(7):1606-17.
- Ding W, Liu Y. Retraction: Genistein protects genioglossus myocyte against hypoxia-induced injury through PI3K-Akt and ERK MAPK pathways. *J Cell Biochem*. 2012 May;113(5):1809
- Cai B, Li J, Wang J, Luo X, Ai J, Liu Y, Wang N, Liang H, Zhang M, Chen N, Wang G, Xing S, Zhou X, Yang B, Wang X, Lu Y. microRNA-124 Regulates Cardiomyocyte Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells via Targeting STAT3 Signaling. *Stem Cells*. 2012 Aug;30(8):1746-55.
- Cheng W, Liu T, Wan X, Gao Y, Wang H. MicroRNA-199a targets CD44 to suppress the tumorigenicity and multidrug resistance of ovarian cancer-initiating cells. *FEBS J*. 2012 Jun;279(11):2047-59.
- Liu J, Zhao Y, Guo Q, Wang Z, Wang H, Yang Y, Huang Y. TAT-modified nanosilver for combating multidrug-resistant cancer. *Biomaterials*. 2012 Sep;33(26):6155-61.
- Ren J, Shen S, Wang D, Xi Z, Guo L, Pang Z, Qian Y, Sun X, Jiang X. The targeted delivery of anticancer drugs to brain glioma by PEGylated oxidized multi-walled carbon nanotubes modified with angiopep-2. *Biomaterials*. 2012 Apr;33(11):3324-33.
- Ding M, Zhang E, He R, Wang X, Li R, Wang W, Yi Q. The radiation dose-regulated AND gate genetic circuit, a novel targeted and real-time monitoring strategy for cancer gene therapy. *Cancer Gene Ther*. 2012 Jun;19(6):382-92.
- Wang L, Zhang H, Chen B, Xia G, Wang S, Cheng J, Shao Z, Gao C, Bao W, Tian L, Ren Y, Xu P, Cai X, Liu R, Wang X. Effect of magnetic nanoparticles on apoptosis and cell cycle induced by wogonin in Raji cells. *INT J NANOMED*. 2012;7:789-98.
- Chen LF, FitzGibbon T, He JR, Yin ZQ. Localization and developmental expression patterns of CSPG-cs56 (aggrecan) in normal and dystrophic retinas in two rat strains. *Exp Neurol*. 2012 Apr;234(2):488-98.
- Zhang W, Huang Q, Hua Z. Galangin and TRAIL cooperate to suppress A549 lung cancer proliferation via apoptosis and p38 MAPK activation. *Acta Pharmaceutica Sinica B*. 2012 Dec;2(6):569-74.
- Li W, Zhang Q, Wang M, Wu H, Mao F, Zhang B, Ji R, Gao S, Sun Z, Zhu W, Qian H, Chen Y, Xu W. Macrophages are involved in the protective role of human umbilical cord-derived stromal cells in renal ischemia-reperfusion injury. *Stem Cell Res*. 2013 May;10(3):405-16.
- Hu X, Li H, Luo S, Liu T, Jiang Y, Liu S. Thiol and pH dual-responsive dynamic covalent shell cross-linked micelles for triggered release of chemotherapeutic drugs. *POLYM CHEM-UK*. 2013 Sep;3:695-706.
- Wang J, An Y, Li F, Li D, Jing D, Guo T, Luo E, Ma C. The effects of pulsed electromagnetic field on the functions of osteoblasts on implant surfaces with different topographies. *Acta Biomater*. 2014 Feb;10(2):975-85.
- Zhou L, Zhou W, Zhang S, Liu B, Liang P, Zhou Y, Zhou T, Zhang K, Leng Y, Kong W. BDNF signaling in the rat cerebello-vestibular pathway during vestibular compensation: BDNF signaling in vestibular compensation. *FEBS J*. 2015 Sep;282(18):3579-91.
- Sheng Y, Sun B, Xie X, Li N, Dong D. DMH1 (4-[6-(4-isopropoxyphenyl)pyrazolo[5,4-b]pyrimidin-3-yl]quinoline) inhibits chemotherapeutic drug-induced autophagy. *Acta Pharm Sin B*. 2015 Jul;5(4):330-6.
- Sun HY, Hu YJ, Zhao XY, Zhong Y, Zeng LL, Chen XB, Yuan J, Wu J, Sun Y, Kong W, Kong WJ. Age-related changes in mitochondrial antioxidant enzyme Trx2 and TXNIP-Trx2-ASK1 signal pathways in the auditory cortex of a mimetic aging rat model: changes to Trx2 in the auditory cortex. *FEBS J*. 2015 Jul;282(14):2758-74.
- Zhang W, Qiao L, Wang X, Senthilkumar R, Wang F, Chen B. Inducing cell cycle arrest and apoptosis by dimercaptosuccinic acid modified Fe3O4 magnetic nanoparticles combined with nontoxic concentration of bortezomib and

- gambogic acid in RPMI-8226 cells. *INT J NANOMED*. 2015 Apr 30;10:3275-89.
31. Zhao J, Yang L, Huang P, Wang Z, Tan Y, Liu H, Pan J, He CY, Chen ZY. Synthesis and characterization of low molecular weight polyethyleneimine-terminated Poly(β -amino ester) for highly efficient gene delivery of minicircle DNA. *J COLLOID INTERF SCI*. 2016 Feb 1;463:93-8.
 32. Xing R, Li KL, Zhou YF, Su YY, Yan SQ, Zhang KL, Wu SC, Sima YH, Zhang KQ, He Y, Xu SQ. Impact of fluorescent silicon nanoparticles on circulating hemolymph and hematopoiesis in an invertebrate model organism. *Chemosphere*. 2016 Sep;159:628-37.
 33. Jin H, Ji M, Chen L, Liu Q, Che S, Xu M, Lin Z. The clinicopathological significance of Mortalin overexpression in invasive ductal carcinoma of breast. *J EXP CLIN CANC RES*. 2016 Mar 9;35:42.
 34. Tian X, Peng J, Zhong J, Yang M, Pang J, Lou J, Li M, An R, Zhang Q, Xu L, Dong Z. β -Caryophyllene protects in vitro neurovascular unit against oxygen-glucose deprivation and re-oxygenation-induced injury. *J Neurochem*. 2016 Dec;139(5):757-768.
 35. Zhou XX, Chen S, Xie L, Ji YZ, Wu X, Wang WW, Yang Q, Yu JT, Sun Y, Lin X, Kong WJ. Reduced Connexin26 in the Mature Cochlea Increases Susceptibility to Noise-Induced Hearing Loss in Mice. *Int J Mol Sci*. 2016 Feb 26;17(3):301.
 36. Li J, Li Y, Zhang B, Shen X, Zhao H. Why depression and pain often coexist and mutually reinforce: Role of the lateral habenula. *Exp Neurol*. 2016 Oct;284(Pt A):106-113.
 37. You J, Sun J, Ma T, Yang Z, Wang X, Zhang Z, Li J, Wang L, Li M, Yang J, Shen Z. Curcumin induces therapeutic angiogenesis in a diabetic mouse hindlimb ischemia model via modulating the function of endothelial progenitor cells. *Stem Cell Res Ther*. 2017 Aug 3;8(1):182.
 38. Li M, Pi H, Yang Z, Reiter RJ, Xu S, Chen X, Chen C, Zhang L, Yang M, Li Y, Guo P, Li G, Tu M, Tian L, Xie J, He M, Lu Y, Zhong M, Zhang Y, Yu Z, Zhou Z. Melatonin antagonizes cadmium-induced neurotoxicity by activating the transcription factor EB-dependent autophagy-lysosome machinery in mouse neuroblastoma cells. *J Pineal Res*. 2016 Oct;61(3):353-69.
 39. Yang D, Luo W, Wang J, Zheng M, Liao XH, Zhang N, Lu W, Wang L, Chen AZ, Wu WG, Liu H, Wang SB, Zhou XZ, Lu KP. A novel controlled release formulation of the Pin1 inhibitor ATRA to improve liver cancer therapy by simultaneously blocking multiple cancer pathways. *J Control Release*. 2017 Nov 21;269:405-422.
 40. Lin N, Xiong LL, Zhang RP, Zheng H, Wang L, Qian ZY, Zhang P, Chen ZW, Gao FB, Wang TH. Injection of A β 1-40 into hippocampus induced cognitive lesion associated with neuronal apoptosis and multiple gene expressions in the tree shrew. *Apoptosis*. 2016 May;21(5):621-40.
 41. Fan T, Pi H, Li M, Ren Z, He Z, Zhu F, Tian L, Tu M, Xie J, Liu M, Li Y, Tan M, Li G, Qing W, Reiter RJ, Yu Z, Wu H, Zhou Z. Inhibiting MT2-TFE3-dependent autophagy enhances melatonin-induced apoptosis in tongue squamous cell carcinoma. *J Pineal Res*. 2018 Mar;64(2). doi: 10.1111/jpi.12457.
 42. Deng Z, Wang Z, Jin J, Wang Y, Bao N, Gao Q, Zhao J. SIRT1 protects osteoblasts against particle-induced inflammatory responses and apoptosis in aseptic prosthesis loosening. *Acta Biomater*. 2017 Feb;49:541-554.
 43. Ji M, Li Z, Lin Z, Chen L. Antitumor activity of the novel HDAC inhibitor CUDC-101 combined with gemcitabine in pancreatic cancer. *Am J Cancer Res*. 2018 Dec 1;8(12):2402-2418. eCollection 2018.
 44. Zhang XF, Yang Y, Yang XY, Tong Q. LEF-1 gene silencing inhibits pulmonary vascular remodeling and occurrence of pulmonary arterial hypertension through the β -catenin signaling pathway. *Biomed Pharmacother*. 2018 Dec;108:817-827.
 45. Jia KK, Pan SM, Ding H, Liu JH, Zheng YJ, Wang SJ, Pan Y, Kong LD. Chaihu-shugan san inhibits inflammatory response to improve insulin signaling in liver and prefrontal cortex of CUMS rats with glucose intolerance. *Biomed Pharmacother*. 103:1415-1428.
 46. Huang C, Tao L, Wang XL, Pang Z. Berberine reversed the epithelial-mesenchymal transition of normal colonic epithelial cells induced by SW480 cells through regulating the important components in the TGF- β pathway. *J Cell Physiol*. 2018 Dec 10.
 47. Wu XL, Wang LK, Yang DD, Qu M, Yang YJ, Guo F, Han L, Xue J. Effects of Glut1 gene silencing on proliferation, differentiation, and apoptosis of colorectal cancer cells by targeting the TGF- β /PI3K-AKT-mTOR signaling pathway. *J Cell Biochem*. 2018 Feb;119(2):2356-2367.
 48. Zhang JX, Qu XL, Chu P, Xie DJ, Zhu LL, Chao YL, Li L, Zhang JJ, Chen SL. Low shear stress induces vascular eNOS uncoupling via autophagy-mediated eNOS phosphorylation. *BBA-MOL CELL RES*. 1865(5):709-720.
 49. Hao X, Han F, Ma B, Zhang N, Chen H, Jiang X, Yin L, Liu W, Ao L, Cao J, Liu J. SOX30 is a key regulator of desmosomal gene suppressing tumor growth and metastasis in lung adenocarcinoma. *J EXP CLIN CANC RES*. 37(1):111.
 50. Lei D, Shao Z, Zhou X, Yuan H. Synergistic neuroprotective effect of rasagiline and idebenone against retinal ischemia-reperfusion injury via the Lin28-let-7-Dicer pathway. *ONCOTARGET*. 2018 Jan 30;9(15):12137-12153.
 51. Li F, Song X, Su G, Wang Y, Wang Z, Qing S, Jia J, Wang Y, Huang L, Zheng K, Wang Y. AT-533, a Hsp90 inhibitor, attenuates HSV-1-induced inflammation. *Biochem Pharmacol*. 166:82-92.
 52. Wei XQ, Zhang HS, Wei GH, Zhang JG, Du YY, Tan HY, Yang J. Honokiol Protects against Anti- β 1-Adrenergic Receptor Autoantibody-Induced Myocardial Dysfunction via Activation of Autophagy. *Oxid Med Cell Longev*. 2018 Jul 18;2018:1640804.
 53. Zhuang W, Li T, Wang C, Shi X, Li Y, Zhang S, Zhao Z, Dong H, Qiao Y. Berberine exerts antioxidant effects via protection of spiral ganglion cells against cytomegalovirus-induced apoptosis. *FREE RADICAL BIO MED*. 2018 Jun;121:127-135.
 54. Lu Y, Li R, Zhu J, Wu Y, Li D, Dong L, Li Y, Wen X, Yu F, Zhang H, Ni X, Du S, Li X, Xiao J, Wang J. Fibroblast growth factor 21 facilitates peripheral nerve regeneration through suppressing oxidative damage and autophagic cell death. *J Cell Mol Med*. 23(1):497-511.
 55. Guo Q, Wu Y, Hou Y, Liu Y, Liu T, Zhang H, Fan C, Guan H, Li Y, Shan Z, Teng W. Cytokine Secretion and Pyroptosis of Thyroid Follicular Cells Mediated by Enhanced NLRP3, NLRP1, NLR4, and AIM2 Inflammasomes Are Associated With Autoimmune Thyroiditis. *Front Immunol*. 2018 Jun 4;9:1197.
 56. Chen X, Wu S, Tang L, Ma L, Wang F, Feng H, Meng J, Han Z. Mesenchymal stem cells overexpressing heme oxygenase-1 ameliorate lipopolysaccharide-induced acute lung injury in rats. *J Cell Physiol*. 234(5):7301-7319.
 57. Xia X, Wang L, Zhang X, Wang S, Lei L, Cheng L, Xu Y, Sun Y, Hang B, Zhang G, Bai Y, Hu J. Halofuginone-induced autophagy suppresses the migration and invasion of MCF-7 cells via regulation of STMN1 and p53. *J Cell Biochem*. 2018 May;119(5):4009-4020.
 58. Chen J, Li ZC, Lu LF, Li P, Li XY, Li S. Functional Characterization of Dark Sleeper (*Odontobutis obscura*) TBK1 on IFN Regulation. *Front Immunol*. 10:985.
 59. Li Y, Feng D, Wang Z, Zhao Y, Sun R, Tian D, Liu D, Zhang F, Ning S, Yao J, Tian X. Ischemia-induced ACSL4 activation contributes to ferroptosis-mediated tissue injury in intestinal ischemia/reperfusion. *Cell Death Differ*. 26(11):2284-2299.
 60. Zhang Y, Wang Z, Zhao G, Liu JX. Silver nanoparticles affect lens rather than retina development in zebrafish embryos. *ECOTOX ENVIRON SAFE*. 2018 Nov 15;163:279-288.
 61. Gu L, Ding X, Wang Y, Gu M, Zhang J, Yan S, Li N, Song Z, Yin J, Lu L, Peng Y. Spexin alleviates insulin resistance and inhibits hepatic gluconeogenesis via the FoxO1/PGC-1 α pathway in high-fat-diet-induced rats and insulin resistant cells. *Int J Biol Sci*. 15(13):2815-2829.
 62. Wang JH, Wei ZF, Gao YL, Liu CC, Sun JH. Activation of the mammalian target of rapamycin signaling pathway underlies a novel inhibitory role of ring finger protein 182 in ventricular remodeling after myocardial ischemia-reperfusion injury. *J Cell Biochem*. 2018 Nov 18.
 63. Wang D, Zhang P, Xu X, Wang J, Wang D, Peng P, Zheng C, Meng QJ, Yang L, Luo Z. Knockdown of cytochrome c 8 overcomes chemoresistance of chordoma cells by aggravating endoplasmic reticulum stress through PERK/eIF2 α arm of unfolded protein response and blocking autophagy. *Cell Death Dis*. 10(12):887.
 64. Lu X, Qi X, Yi X, Jian Z, Gao T. Transcellular traversal of the blood-brain barrier

- by the pathogenic *Propionibacterium acnes*. *J Cell Biochem*. 2018 Nov 28.
65. Su X, Lin D, Luo D, Sun M, Wang X, Ye J, Zhang M, Zhang Y, Xu X, Yu C, Guan Q. Cyclophilin D participates in the inhibitory effect of high-fat diet on the expression of steroidogenic acute regulatory protein. *J Cell Mol Med*. 23(10):6859-6871.
 66. She ZY, Li YL, Lin Y, Lu MH, Wei YL, Yu KW, Zhong N, Xiao Y. Kinesin-6 family motor KIF20A regulates central spindle assembly and acrosome biogenesis in mouse spermatogenesis. *BBA-MOL CELL RES*. 1867(4):118636.
 67. Xuan F, Huang M, Zhao E, Cui H. MINA53 deficiency leads to glioblastoma cell apoptosis via inducing DNA replication stress and diminishing DNA damage response. *Cell Death Dis*. 2018 Oct 17;9(11):1062.
 68. Hang W, He B, Chen J, Xia L, Wen B, Liang T, Wang X, Zhang Q, Wu Y, Chen Q, Chen J. Berberine Ameliorates High Glucose-Induced Cardiomyocyte Injury via AMPK Signaling Activation to Stimulate Mitochondrial Biogenesis and Restore Autophagic Flux. *Front Pharmacol*. 2018 Oct 3;9:1121.
 69. Liu XJ, Duan NN, Liu C, Niu C, Liu XP, Wu J. Characterization of a murine nonalcoholic steatohepatitis model induced by high fat high calorie diet plus fructose and glucose in drinking water. *Lab Invest*. 2018 Sep;98(9):1184-1199.
 70. Zhao Z, Zhu X, Wu N, Qin X, Huang C, Wu G, Zhang Q, Zhang Z. Species-specific inhibition of capripoxvirus replication by host antiviral protein kinase R. *ANN NY ACAD SCI*. 2019 Feb;1438(1):3-17.
 71. Chen Y, Hao X, Sun R, Wei H, Tian Z. Natural Killer Cell-Derived Interferon-Gamma Promotes Hepatocellular Carcinoma Through the Epithelial Cell Adhesion Molecule-Epithelial-to-Mesenchymal Transition Axis in Hepatitis B Virus Transgenic M. *Hepatology*. 69(4):1735-1750.
 72. Tan Z, Kang T, Zhang X, Tong Y, Chen S. Nerve growth factor prevents arsenic-induced toxicity in PC12 cells through the AKT/GSK-3 β /NFAT pathway. *J Cell Physiol*. 234(4):4726-4738.
 73. Pi H, Li M, Zou L, Yang M, Deng P, Fan T, Liu M, Tian L, Tu M, Xie J, Chen M, Li H, Xi Y, Zhang L, He M, Lu Y, Chen C, Zhang T, Wang Z, Yu Z, Gao F, Zhou Z. AKT inhibition-mediated dephosphorylation of TFE3 promotes overactive autophagy independent of MTORC1 in cadmium-exposed bone mesenchymal stem cells. *Autophagy*. 15(4):565-582.
 74. Cai Y, Xie KL, Wu HL, Wu K. Functional suppression of Epiregulin impairs angiogenesis and aggravates left ventricular remodeling by disrupting the extracellular-signal-regulated kinase1/2 signaling pathway in rats after acute my. *J Cell Physiol*. 234(10):18653-18665.
 75. Pi H, Wang Z, Liu M, Deng P, Yu Z, Zhou Z, Gao F. SCD1 activation impedes foam cell formation by inducing lipophagy in oxLDL-treated human vascular smooth muscle cells. *J Cell Mol Med*. 23(8):5259-5269.
 76. Pan S, Chen YC, Zhao N, Feng X, Yang DD, Wang Y, Jin ZB. A new subset of small stem cells in bovine bone marrow stromal cell populations. *J Cell Biochem*. 120(8):13881-13892.
 77. Li T, Zha L, Luo H, Li S, Zhao L, He J, Li X, Qi Q, Liu Y, Yu Z. Galectin-3 Mediates Endothelial-to-Mesenchymal Transition in Pulmonary Arterial Hypertension. *Aging Dis*. 10(4):731-745.
 78. Li H, Hou L, Zhang Y, Jiang F, Zhu Y, Li QX, Hu CY, Wang C. PFN2a Suppresses C2C12 Myogenic Development by Inhibiting Proliferation and Promoting Apoptosis via the p53 Pathway. *Cells*. 8(9). pii: E959.
 79. Jiang S, Zhang M, Zhang Y, Zhou W, Zhu T, Ruan Q, Chen H, Fang J, Zhou F, Sun J, Yang X. WNT5B governs the phenotype of basal-like breast cancer by activating WNT signaling. *Cell Commun Signal*. 17(1):109.
 80. Tang F, Wang H, Chen E, Bian E, Xu Y, Ji X, Yang Z, Hua X, Zhang Y, Zhao B. LncRNA-ATB promotes TGF- β -induced glioma cells invasion through NF- κ B and P38/MAPK pathway. *J Cell Physiol*. 234(12):23302-23314.
 81. Qian QQ, Zhang X, Wang YW, Xu JW, Dong HQ, Li NN, Qian YN, Gui B. Pro-inflammatory role of high-mobility group box-1 on brain mast cells via the RAGE/NF- κ B pathway. *J Neurochem*. 151(5):595-607.
 82. Liu L, Wu N, Wang Y, Zhang X, Xia B, Tang J, Cai J, Zhao Z, Liao Q, Wang J. TRPM7 promotes the epithelial-mesenchymal transition in ovarian cancer through the calcium-related PI3K / AKT oncogenic signaling. *J EXP CLIN CANC RES*. 38(1):106.
 83. Wang X, Meng K, He Y, Wang H, Zhang Y, Quan F. Melatonin Stimulates STAR Expression and Progesterone Production via Activation of the PI3K/AKT Pathway in Bovine Theca Cells. *Int J Biol Sci*. 15(2):404-415.
 84. Chen P, Wang H, Zhang W, Chen Y, Lv Y, Wu D, Guo M, Deng H. Loss of BAP1 Results in Growth Inhibition and Enhances Mesenchymal-Epithelial Transition in Kidney Tumor Cells. *Mol Cell Proteomics*. 18(7):1320-1329.
 85. Liu WY, Tang Q, Zhang Q, Hu CP, Huang JB, Sheng FF, Liu YL, Zhou M, Lai WJ, Li GB, Zhang R. Lycorine Induces Mitochondria-Dependent Apoptosis in Hepatoblastoma HepG2 Cells Through ROCK1 Activation. *Front Pharmacol*. 10:651.
 86. Liu L, Yu TT, Ren CC, Yang L, Cui SH, Zhang XA. CP-31398 inhibits the progression of cervical cancer through reversing the epithelial mesenchymal transition via the downregulation of PAX2s. *J Cell Physiol*. 234(3):2929-2942.
 87. Zhou D, Zheng H, Liu Q, Lu X, Deng X, Jiang L, Hou B, Fu Y, Zhu F, Ding Y, Xu W, Dai J. Attenuated plasmodium sporozoite expressing MAGE-A3 induces antigen-specific CD8+ T cell response against lung cancer in mice. *Cancer Biol Med*. 16(2):288-298.
 88. He Y, Ling S, Sun Y, Sheng Z, Chen Z, Pan X, Ma G. DNA methylation regulates α -smooth muscle actin expression during cardiac fibroblast differentiation. *J Cell Physiol*. 234(5):7174-7185.
 89. Liang S, Guo XK, Ou J, Huang R, Xue Q, Zhang B, Chung Y, Wu W, Dong C, Yang X, Hu X. Nutrient Sensing by the Intestinal Epithelium Orchestrates Mucosal Antimicrobial Defense via Translational Control of Hes1. *Cell Host Microbe*. 25(5):706-718.e7.
 90. Xi Y, Liu M, Xu S, Hong H, Chen M, Tian L, Xie J, Deng P, Zhou C, Zhang L, He M, Chen C, Lu Y, Reiter RJ, Yu Z, Pi H, Zhou Z. Inhibition of SERPINA3N-dependent neuroinflammation is essential for melatonin to ameliorate trimethyltin chloride-induced neurotoxicity. *J Pineal Res*. 67(3):e12596.
 91. Long J, Ma W, Yu Z, Liu H, Cao Y. Multi-walled carbon nanotubes (MWCNTs) promoted lipid accumulation in THP-1 macrophages through modulation of endoplasmic reticulum (ER) stress. *Nanotoxicology*. 13(7):938-951.
 92. Han M, Wang S, Yang N, Wang X, Zhao W, Saed HS, Daubon T, Huang B, Chen A, Li G, Miletic H, Thorsen F, Bjerkvig R, Li X, Wang J. Therapeutic implications of altered cholesterol homeostasis mediated by loss of CYP46A1 in human glioblastoma. *EMBO Mol Med*. 12(1):e10924.
 93. Zhou H, Qian J, Wang J, Yao W, Liu C, Chen J, Cao X. Enhanced bioactivity of bone morphogenetic protein-2 with low dose of 2-N, 6-O-sulfated chitosan in vitro and in vivo. *Biomaterials*. 2009 Mar;30(9):1715-24.
 94. Xu H, Wang P, Fu Y, Zheng Y, Tang Q, Si L, You J, Zhang Z, Zhu Y, Zhou L, Wei Z, Lin B, Hu L, Kong X. Length of the ORF, position of the first AUG and the Kozak motif are important factors in potential dual-coding transcripts. *Cell Res*. 2010 Apr;20(4):445-57.
 95. Wang J, Chen B, Cheng J, Cai X, Xia G, Liu R, Wang X. Apoptotic mechanism of human leukemia K562/A02 cells induced by magnetic iron oxidenanoparticles co-loaded with daunorubicin and 5-bromotetrandrin. *INT J NANOMED*. 2011;6:1027-34.
 96. Xiang P, Li M, Zhang CY, Chen DL, Zhou ZH. Cytocompatibility of electrospun nanofiber tubular scaffolds for small diameter tissue engineering blood vessels. *Int J Biol Macromol*. 2011 Oct 1;49(3):281-8.
 97. Yang XZ, Dou S, Sun TM, Mao CQ, Wang HX, Wang J. Systemic delivery of siRNA with cationic lipid assisted PEG-PLA nanoparticles for cancer therapy. *J Control Release*. 2011 Dec 10;156(2):203-11.
 98. Li Y, Sun WG, Liu HK, Qi GY, Wang Q, Sun XR, Chen BQ, Liu JR. γ -Tocotrienol inhibits angiogenesis of human umbilical vein endothelial cell induced by cancer cell. *J Nutr Biochem*. 2011 Dec;22(12):1127-36.
 99. Hu X, Chen Z, Mao X, Tang S. Effects of phenytoin and Echinacea purpurea extract on proliferation and apoptosis of mouse embryonic palatal mesenchymal cells. *J Cell Biochem*. 2011 May;112(5):1311-7.
 100. Li X, Chen D, Le C, Zhu C, Gan Y, Hovgaard L, Yang M. Novel mucus-penetrating

- liposomes as a potential oral drug delivery system: preparation, in vitro characterization, and enhanced cellular uptake. *INT J NANOMED*. 2011;6:3151-62.
101. Mao CQ, Du JZ, Sun TM, Yao YD, Zhang PZ, Song EW, Wang J. A biodegradable amphiphilic and cationic triblock copolymer for the delivery of siRNA targeting the acid ceramidase gene for cancer therapy. *Biomaterials*. 2011 Apr;32(11):3124-33.
 102. Li C, Zheng Y, Wang X, Xia W, Gao H, Li D, Ma X. Bone marrow-derived stem cells contribute skin regeneration in skin and soft tissue expansion. *J Cell Physiol*. 2011 Nov;226(11):2834-40.
 103. Cheng J, Wang J, Chen B, Xia G, Cai X, Liu R, Ren Y, Bao W, Wang X. A promising strategy for overcoming MDR in tumor by magnetic iron oxide nanoparticles co-loaded with daunorubicin and 5-bromotetrandrin. *INT J NANOMED*. 2011;6:2123-31.
 104. Shen L, Xu W, Li A, Ye J, Zhou J. JWA enhances As2O3-induced tubulin polymerization and apoptosis via p38 in HeLa and MCF-7 cells. *Apoptosis*. 2011 Nov;16(11):1177-93.
 105. Li F, Li QH, Wang JY, Zhan CY, Xie C, Lu WY. Effects of interferon-gamma liposomes targeted to platelet-derived growth factor receptor-beta on hepatic fibrosis in rats. *J Control Release*. 2012 Apr 30;159(2):261-70.
 106. Li H, Gao F, Ma L, Jiang J, Miao J, Jiang M, Fan Y, Wang L, Wu D, Liu B, Wang W, Lui VC, Yuan Z. Therapeutic potential of in utero mesenchymal stem cell (MSCs) transplantation in rat fetuses with spina bifida aperta. *J Cell Mol Med*. 2012 Jul;16(7):1606-17.
 107. Ding W, Liu Y. Retraction: Genistein protects genioglossus myocyte against hypoxia-induced injury through PI3K-Akt and ERK MAPK pathways. *J Cell Biochem*. 2012 May;113(5):1809.
 108. Cai B, Li J, Wang J, Luo X, Ai J, Liu Y, Wang N, Liang H, Zhang M, Chen N, Wang G, Xing S, Zhou X, Yang B, Wang X, Lu Y. microRNA-124 Regulates Cardiomyocyte Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells via Targeting STAT3 Signaling. *Stem Cells*. 2012 Aug;30(8):1746-55.
 109. Cheng W, Liu T, Wan X, Gao Y, Wang H. MicroRNA-199a targets CD44 to suppress the tumorigenicity and multidrug resistance of ovarian cancer-initiating cells. *FEBS J*. 2012 Jun;279(11):2047-59.
 110. Liu J, Zhao Y, Guo Q, Wang Z, Wang H, Yang Y, Huang Y. TAT-modified nanosilver for combating multidrug-resistant cancer. *Biomaterials*. 2012 Sep;33(26):6155-61.
 111. Ren J, Shen S, Wang D, Xi Z, Guo L, Pang Z, Qian Y, Sun X, Jiang X. The targeted delivery of anticancer drugs to brain glioma by PEGylated oxidized multi-walled carbon nanotubes modified with angiopep-2. *Biomaterials*. 2012 Apr;33(11):3324-33.
 112. Ding M, Zhang E, He R, Wang X, Li R, Wang W, Yi Q. The radiation dose-regulated AND gate genetic circuit, a novel targeted and real-time monitoring strategy for cancer gene therapy. *Cancer Gene Ther*. 2012 Jun;19(6):382-92.
 113. Wang L, Zhang H, Chen B, Xia G, Wang S, Cheng J, Shao Z, Gao C, Bao W, Tian L, Ren Y, Xu P, Cai X, Liu R, Wang X. Effect of magnetic nanoparticles on apoptosis and cell cycle induced by wogonin in Raji cells. *INT J NANOMED*. 2012;7:789-98.
 114. Chen LF, FitzGibbon T, He JR, Yin ZQ. Localization and developmental expression patterns of CSPG-cs56 (aggrecan) in normal and dystrophic retinas in two rat strains. *Exp Neurol*. 2012 Apr;234(2):488-98.
 115. Zhang W, Huang Q, Hua Z. Galangin and TRAIL cooperate to suppress A549 lung cancer proliferation via apoptosis and p38 MAPK activation. *Acta Pharmaceutica Sinica B*. 2012 Dec;2(6):569-74.
 116. Li W, Zhang Q, Wang M, Wu H, Mao F, Zhang B, Ji R, Gao S, Sun Z, Zhu W, Qian H, Chen Y, Xu W. Macrophages are involved in the protective role of human umbilical cord-derived stromal cells in renal ischemia-reperfusion injury. *Stem Cell Res*. 2013 May;10(3):405-16.
 117. Hu X, Li H, Luo S, Liu T, Jiang Y, Liu S. Thiol and pH dual-responsive dynamic covalent shell cross-linked micelles for triggered release of chemotherapeutic drugs. *POLYM CHEM-UK*. 2013 Sep;3:695-706.
 118. Wang J, An Y, Li F, Li D, Jing D, Guo T, Luo E, Ma C. The effects of pulsed electromagnetic field on the functions of osteoblasts on implant surfaces with different topographies. *Acta Biomater*. 2014 Feb;10(2):975-85.
 119. Zhou L, Zhou W, Zhang S, Liu B, Liang P, Zhou Y, Zhou T, Zhang K, Leng Y, Kong W. BDNF signaling in the rat cerebello-vestibular pathway during vestibular compensation: BDNF signaling in vestibular compensation. *FEBS J*. 2015 Sep;282(18):3579-91.
 120. Sheng Y, Sun B, Xie X, Li N, Dong D. DMH1 (4-[6-(4-isopropoxyphenyl)pyrazolo[5,4-pyrimidin-3-yl]quinoline) inhibits chemotherapeutic drug-induced autophagy. *Acta Pharm Sin B*. 2015 Jul;5(4):330-6.
 121. Sun HY, Hu YJ, Zhao XY, Zhong Y, Zeng LL, Chen XB, Yuan J, Wu J, Sun Y, Kong W, Kong WJ. Age-related changes in mitochondrial antioxidant enzyme Trx2 and TXNIP-Trx2-ASK1 signal pathways in the auditory cortex of a mimetic aging rat model: changes to Trx2 in the auditory cortex. *FEBS J*. 2015 Jul;282(14):2758-74.
 122. Zhang W, Qiao L, Wang X, Senthilkumar R, Wang F, Chen B. Inducing cell cycle arrest and apoptosis by dimercaptosuccinic acid modified Fe3O4 magnetic nanoparticles combined with nontoxic concentration of bortezomib and gambogic acid in RPMI-8226 cells. *INT J NANOMED*. 2015 Apr 30;10:3275-89.
 123. Zhao J, Yang L, Huang P, Wang Z, Tan Y, Liu H, Pan J, He CY, Chen ZY. Synthesis and characterization of low molecular weight polyethyleneimine-terminated Poly(β -amino ester) for highly efficient gene delivery of minicircle DNA. *J COLLOID INTERF SCI*. 2016 Feb 1;463:93-8.
 124. You J, Sun J, Ma T, Yang Z, Wang X, Zhang Z, Li J, Wang L, Li M, Yang J, Shen Z. Curcumin induces therapeutic angiogenesis in a diabetic mouse hindlimb ischemia model via modulating the function of endothelial progenitor cells. *Stem Cell Res Ther*. 2017 Aug 3;8(1):182.
 125. Yang D, Luo W, Wang J, Zheng M, Liao XH, Zhang N, Lu W, Wang L, Chen AZ, Wu WG, Liu H, Wang SB, Zhou XZ, Lu KP. A novel controlled release formulation of the Pin1 inhibitor ATRA to improve liver cancer therapy by simultaneously blocking multiple cancer pathways. *J Control Release*. 2017 Nov 21;269:405-422.
 126. Fan T, Pi H, Li M, Ren Z, He Z, Zhu F, Tian L, Tu M, Xie J, Liu M, Li Y, Tan M, Li G, Qing W, Reiter RJ, Yu Z, Wu H, Zhou Z. Inhibiting MT2-TFE3-dependent autophagy enhances melatonin-induced apoptosis in tongue squamous cell carcinoma. *J Pineal Res*. 2018 Mar;64(2). doi: 10.1111/jpi.12457.
 127. Li F, Song X, Su G, Wang Y, Wang Z, Qing S, Jia J, Wang Y, Huang L, Zheng K, Wang Y. AT-533, a Hsp90 inhibitor, attenuates HSV-1-induced inflammation. *Biochem Pharmacol*. 166:82-92.
 128. Gang Qian, Dandan Liu, Lili Hou, Mohammed Hamid, Xingxiang Chen, Fang Gan, Suquan Song, Kehe Huang. Ochratoxin A Induces Cytoprotective Autophagy via Blocking AKT/mTOR Signaling Pathway in PK-15 Cells. *Food Chem Toxicol*. doi: 10.1016/j.fct.2018.09.070.
 129. Jie Feng, Jing-Xue Wang, Ye-Hong Du, Ying Liu, Wei Zhang, Jing-Fei Chen, Yuan-Jie Liu, Min Zheng, Ke-Jian Wang, Gui-Qiong He. Dihydropyridin Inhibits Microglial Activation and Neuroinflammation by Suppressing NLRP3 Inflammasome Activation in APP/PS1 Transgenic Mice. *CNS Neurosci Ther*. doi: 10.1111/cns.12983.
 130. Yang W, Chen Q, Xia R, Zhang Y, Shuai L, Lai J, You X, Jiang Y, Bie P, Zhang L, Zhang H, Bai L. A novel bioscaffold with naturally-occurring extracellular matrix promotes hepatocyte survival and vessel patency in mouse models of heterologous transplantation. *Biomaterials*. 177:52-66.
 131. Tan M, Zhang Q, Yuan X, Chen Y, Wu Y. Synergistic killing effects of homoharringtonine and arsenic trioxide on acute myeloid leukemia stem cells and the underlying mechanisms. *J EXP CLIN CANC RES*. 38(1):308.
 132. Cheng Zheng, Sen-Min Wu, Hao Lian, Yuan-Zheng Lin, Rong Zhuang, Saroj Thapa, Quan-Zhi Chen, Yi-Fan Chen, Jia-Peng Lin. Low-intensity Pulsed Ultrasound Attenuates Cardiac Inflammation of CVB3-induced Viral Myocarditis via Regulation of caveolin-1 and MAPK Pathways. *J Cell Mol Med*. doi: 10.1111/jcmm.14098.
 133. Baishijiao Bian, Congjian Zhao, Xiangyu He, Yu Gong, Chungue Ren, Lingling Ge, Yuxiao Zeng, Qiyou Li, Min Chen, Chuanhuang Weng, Juncai He, Yajie Fang, Haiwei Xu, Zheng Qin Yin. Exosomes derived from neural progenitor cells

- preserve photoreceptors during retinal degeneration by inactivating microglia. *J Extracell Vesicles*. doi: 10.1080/20013078.2020.1748931.
134. Zhen-Yu She, Yue-Ling Li, Yang Lin, Ming-Hui Lu, Ya-Lan Wei, Kai-Wei Yu, Ning Zhong, Yu Xiao. Kinesin-6 family motor KIF20A regulates central spindle assembly and acrosome biogenesis in mouse spermatogenesis. *BBA-MOL CELL RES*. doi: 10.1016/j.bbamcr.2019.118636.
135. Haidong Wang, Yujin Guo, Yi Qiao, Jun Zhang, Pei Jiang. Nobiletin Ameliorates NLRP3 Inflammasome-Mediated Inflammation Through Promoting Autophagy via the AMPK Pathway. *Mol Neurobiol*. doi: 10.1007/s12035-020-02071-5.
136. Na Wang, Jing Ma, Jing Liu, Jiangong Wang, Cuilan Liu, Hua Wang, Yong Liu, Haijing Yan, Shujun Jiang. Histamine H3 Receptor Antagonist Enhances Neurogenesis and Improves Chronic Cerebral Hypoperfusion-Induced Cognitive Impairments. *Front Pharmacol*. doi: 10.3389/fphar.2019.01583.
137. Yi Han, Shaofei Zhou, Xiaoyan Wang, Enqiang Mao, Liang Huang. SNHG14 stimulates cell autophagy to facilitate cisplatin resistance of colorectal cancer by regulating miR-186/ATG14 axis. *Biomed Pharmacother*. doi: 10.1016/j.biopha.2019.109580.
138. Chuan Zhou, Jingcheng Zhang, Min Zhang, Debao Wang, Yi Ma, Yong Wang, Yizhi Wang, Yueming Huang, Yong Zhang. Transcriptional memory inherited from donor cells is a developmental defect of bovine cloned embryos. *FASEB J*. doi: 10.1096/fj.201900578RR.
139. Yu Song, Qing-Xiang Meng, Ke Wu, Rong Hua, Zhi-Jing Song, Ying Song, Xia Qin, Jun-Li Cao, Yong-Mei Zhang. Disinhibition of PVN-projecting GABAergic neurons in AV region in BNST participates in visceral hypersensitivity in rats. *Psychoneuroendocrinology*. doi: 10.1016/j.psyneuen.2020.104690.
140. Xiaotong Wang, Xudan Liu, Yao Chen, Huanhuan Wang, Ruo Zhang, Qianhui Zhang, Yuting Wei, Sainan Shi, Xin Li. Calreticulin regulated intrinsic apoptosis through mitochondria-dependent and independent pathways mediated by ER stress in arsenite exposed HT-22 cells. *Chemosphere*. doi: 10.1016/j.chemosphere.2020.126466.
141. Kai Zheng, Jingxin Ma, Yifei Wang, Zhendan He, Kejun Deng. Sulforaphane Inhibits Autophagy and Induces Exosome-Mediated Paracrine Senescence via Regulating mTOR/TFE3. *Mol Nutr Food Res*. doi: 10.1002/mnfr.201901231.
142. Mei Li, Di Zhang, Chuntian Li, Zifeng Zheng, Ming Fu, Fengfeng Ni, Yalan Liu, Tao Du, Hanzhong Wang, George E Griffin, Mudan Zhang, Qinxue Hu. Characterization of Zika Virus Endocytic Pathways in Human Glioblastoma Cells. *Front Microbiol*. doi: 10.3389/fmicb.2020.00242.
143. Han Lu, Hui-Li Yang, Wen-Jie Zhou, Zhen-Zhen Lai, Xue-Min Qiu, Qiang Fu, Jian-Yuan Zhao, Jian Wang, Da-Jin Li, Ming-Qing Li. Rapamycin prevents spontaneous abortion by triggering decidual stromal cell autophagy-mediated NK cell residence. *Autophagy*. doi: 10.1080/15548627.2020.1833515.
144. Chen Zhong, Qian Yu, Yucong Peng, Shengjun Zhou, Zhendong Liu, Yong Deng, Leiguang Guo, Shiguang Zhao, Gao Chen. Novel LncRNA OXCT1-AS1 indicates poor prognosis and contributes to tumorigenesis by regulating miR-195/CDC25A axis in glioblastoma. *J EXP CLIN CANC RES*. doi: 10.1186/s13046-021-01928-4.
145. Zhantao Deng, Ruiying Zhang, Mengyuan Li, Shuai Wang, Guangtao Fu, Jiwen Jin, Zhenheng Wang, Yuanchen Ma, Qiuqian Zheng. STAT3/IL-6 dependent induction of inflammatory response in osteoblast and osteoclast formation in nanoscale wear particle-induced aseptic prosthesis loosening. *BIOMATER SCI-UK*. doi: 10.1039/d0bm01256d.
146. Haoyang Ma, Jiaye Liu, Yang Du, Shengnan Zhang, Weidong Cao, Zhanjun Jia, Wei Gong, Aihua Zhang. Estrogen-Related Receptor γ Agonist DY131 Ameliorates Lipopolysaccharide-Induced Acute Liver Injury. *Front Pharmacol*. doi: 10.3389/fphar.2021.626166.
147. Guanning Wei, Hongmei Sun, Haijun Wei, Tao Qin, Yifeng Yang, Xiaohong Xu, Shoujing Zhao. Detecting the Mechanism behind the Transition from Fixed Two-Dimensional Patterned Sika Deer (*Cervus nippon*) Dermal Papilla Cells to Three-Dimensional Pattern. *Int J Mol Sci*. doi: 10.3390/ijms22094715.
148. Chao Zhou, Mengyu Liu, Xiang Mei, Qian Li, Wenjuan Zhang, Ping Deng, Zhixin He, Yu Xi, Tong Tong, Huifeng Pi, Yonghui Lu, Chunhai Chen, Lei Zhang, Zhengping Yu, Zhou Zhou, Mindi He. Histone hypoacetylation contributes to neurotoxicity induced by chronic nickel exposure in vivo and in vitro. *Sci Total Environ*. doi: 10.1016/j.scitotenv.2021.147014.
149. Wusun Li, Yingying Lin, Yujia Luo, Yuqi Wang, Yao Lu, Yixuan Li, Huiyuan Guo. Vitamin D Receptor Protects against Radiation-Induced Intestinal Injury in Mice via Inhibition of Intestinal Crypt Stem/Progenitor Cell Apoptosis. *Nutrients*. doi: 10.3390/nu13092910.
150. Yongsheng Zhong, Yibo Wang, Zhuoyi He, Zhengrong Lin, Na Pang, Lili Niu, Yanwu Guo, Min Pan, Long Meng. Closed-loop wearable ultrasound deep brain stimulation system based on EEG in mice. *J Neural Eng*. doi: 10.1088/1741-2552/ac1d5c.
151. Xiaoyun Li, Yan Cui, Qing Lin, Panpan Wang, Rumeng Chen, Xiaofeng Zhu, Li Yang, Ronghua Zhang. miR-330-5p in Small Extracellular Vesicles Derived From *Plastrum testudinis*-Preconditioned Bone Mesenchymal Stem Cells Attenuates Osteogenesis by Modulating Wnt/ β -Catenin Signaling. *Front Mol Biosci*. doi: 10.3389/fmolb.2021.679345.
152. Youming Chen, Lan Wang, Shixing Huang, Jiangfeng Ke, Qing Wang, Zhiwen Zhou, Wei Chang. Lutein attenuates angiotensin II-induced cardiac remodeling by inhibiting AP-1/IL-11 signaling. *Redox Biol*. doi: 10.1016/j.redox.2021.102020.
153. Huigen Luo, Renjie Gu, Huiya Ouyang, Lihong Wang, Shanwei Shi, Yuna Ji, Baicheng Bao, Guiqing Liao, Baoshan Xu. Cadmium exposure induces osteoporosis through cellular senescence, associated with activation of NF- κ B pathway and mitochondrial dysfunction. *Environ Pollut*. doi: 10.1016/j.envpol.2021.118043.
154. Yanhong Wang, Na Li, Yanping Zheng, Anqing Wang, Chunlei Yu, Zhenbo Song, Shuyue Wang, Ying Sun, Lihua Zheng, Guannan Wang, Lei Liu, Jingwen Yi, Yanxin Huang, Muqing Zhang, Yongli Bao, Luguo Sun. KIAA1217 Promotes Epithelial-Mesenchymal Transition and Hepatocellular Carcinoma Metastasis by Interacting with and Activating STAT3. *Int J Mol Sci*. doi: 10.3390/ijms23010104.
155. Yangming Song, Haixiang Huang, Yuzhen Hu, Jiwen Zhang, Fang Li, Xin Yin, Jianzhong Shi, Yanbing Li, Chengjun Li, Dongming Zhao, Hualan Chen. A genome-wide CRISPR/Cas9 gene knockout screen identifies immunoglobulin superfamily DCC subclass member 4 as a key host factor that promotes influenza virus endocytosis. *PLoS Pathog*. doi: 10.1371/journal.ppat.1010141.
156. Lingqiao Hao, Quan Zhou, Ying Piao, Zhuxian Zhou, Jianbin Tang, Youqing Shen. Albumin-binding prodrugs via reversible iminoboronate forming nanoparticles for cancer drug delivery. *J Control Release*. doi: 10.1016/j.jconrel.2020.12.035.
157. Dan Song, Yaohua Chen, Cheng Chen, Lili Chen, Oumei Cheng. GABAB receptor antagonist promotes hippocampal neurogenesis and facilitates cognitive function recovery following acute cerebral ischemia in mice. *Stem Cell Res Ther*. doi: 10.1186/s13287-020-02059-x.
158. Wen Zhang, Zhendong Fu, Hongyan Yin, Qingbing Han, Wenhui Fan, Fangkun Wang, Yingli Shang. Macrophage Polarization Modulated by Porcine Circovirus Type 2 Facilitates Bacterial Coinfection. *Front Immunol*. doi: 10.3389/fimmu.2021.688294.
159. Li-Min Zhang, Dong-Xue Zhang, Wei-Chao Zheng, Jin-Shu Hu, Lan Fu, Yan Li, Yue Xin, Xu-Peng Wang. CORM-3 exerts a neuroprotective effect in a rodent model of traumatic brain injury via the bidirectional gut-brain interactions. *Exp Neurol*. doi: 10.1016/j.expneurol.2021.113683.
160. Hanwen Liu, Chunyan Jiang, Boya La, Meng Cao, Song Ning, Jing Zhou, Zhengjie Yan, Chuyi Li, Yugui Cui, Xiang Ma, Meilian Wang, Li Chen, Youjia Yu, Feng Chen, Yuexin Zhang, Huimin Wu, Jiayin Liu, Lianju Qin. Human amnion-derived mesenchymal stem cells improved the reproductive function of age-related diminished ovarian reserve in mice through Ampk/FoxO3a signaling pathway. *Stem Cell Res Ther*. doi: 10.1186/s13287-021-02382-x.
161. Xishuang Wang, Zengtao Wei, Zhongyun Tang, Chenyue Xue, Huayun Yu, Derui Zhang, Yulan Li, Xihong Liu, Yongyu Shi, Lining Zhang, Guoling Chen, Huaiyu Zhou, Jianing Wang, Xiaoyan Wang. IL-37b Δ 1-45 suppresses the migration and invasion of endometrial cancer cells by targeting the Rac1/NF- κ B/MMP2 signal pathway. *Lab Invest*. doi: 10.1038/s41374-021-00544-2.

162. Jun Wang, Wei Tang, Meng Yang, Ying Yin, Hui Li, Fangfang Hu, Lin Tang, Xiaoyue Ma, Yu Zhang, Yazhou Wang. Inflammatory tumor microenvironment responsive neutrophil exosomes-based drug delivery system for targeted glioma therapy. *Biomaterials*. doi: 10.1016/j.biomaterials.2021.120784.
163. Wei Shi, Shuge Sun, Yu Han, Yu Tang, Weishang Zhou, Xueying Du, Guangxu Liu. Microplastics impair olfactory-mediated behaviors of goldfish *Carassius auratus*. *J Hazard Mater*. doi: 10.1016/j.jhazmat.2020.125016.
164. Lei Yu, Yuxi Chen, Shaohui Yuan, Yang Cao, Zhenggang Bi. Peiminine Induces G0/G1-Phase Arrest, Apoptosis, and Autophagy via the ROS/JNK Signaling Pathway in Human Osteosarcoma Cells in Vitro and in Vivo. *Front Pharmacol*. doi: 10.3389/fphar.2021.770846.
165. Baohua Tan, Sheng Wang, Shanshan Wang, Jiekang Zeng, Linjun Hong, Zicong Li, Jie Yang, Gengyuan Cai, Enqin Zheng, Zhenfang Wu, Ting Gu. Genome-Wide Analysis of H3K27me3 in Porcine Embryonic Muscle Development. *Front Cell Dev Biol*. doi: 10.3389/fcell.2021.739321.
166. Lei Zhang, Yue-Hua Jiang, Cundong Fan, Qian Zhang, Yong-Hao Jiang, Yan Li, Yi-Tao Xue. MCC950 attenuates doxorubicin-induced myocardial injury in vivo and in vitro by inhibiting NLRP3-mediated pyroptosis. *Biomed Pharmacother*. doi: 10.1016/j.biopha.2021.112133.
167. Yakun Li, Bingyang Xu, Jun Yang, Lu Wang, Xiaosheng Tan, Xiaofan Hu, Lingjuan Sun, Song Chen, Lan Zhu, Xiaoping Chen, Gang Chen. Liraglutide protects against lethal renal ischemia-reperfusion injury by inhibiting high-mobility group box 1 nuclear-cytoplasmic translocation and release. *Pharmacol Res*. doi: 10.1016/j.phrs.2021.105867.
168. Liying Wang, Zimo Liu, Quan Zhou, Sufang Gu, Xiangsheng Liu, Jianxiang Huang, Haiping Jiang, Huifang Wang, Liping Cao, Jihong Sun, Youqing Shen, Huan Meng, Xiangrui Liu. Prodrug nanoparticles rationally integrating stroma modification and chemotherapy to treat metastatic pancreatic cancer. *Biomaterials*. doi: 10.1016/j.biomaterials.2021.121176.
169. Zhaoyang Jing, Hongyan Shi, Jianfei Chen, Da Shi, Jianbo Liu, Longjun Guo, Jin Tian, Yang Wu, Hui Dong, Zhaoyang Ji, Jiyu Zhang, Liaoyuan Zhang, Xin Zhang, Li Feng. Rotavirus Viroplasm Biogenesis Involves Microtubule-Based Dynein Transport Mediated by an Interaction between NSP2 and Dynein Intermediate Chain. *J Virol*. doi: 10.1128/JVI.01246-21.
170. Xiaoyun Li, Rumeng Chen, Yunchuan Li, Panpan Wang, Yan Cui, Li Yang, Xiaofeng Zhu, Ronghua Zhang. miR-27a-5p-Abundant Small Extracellular Vesicles Derived From Epimedium-Preconditioned Bone Mesenchymal Stem Cells Stimulate Osteogenesis by Targeting Atg4B-Mediated Autophagy. *Front Cell Dev Biol*. doi: 10.3389/fcell.2021.642646.
171. Shan Zhou, Xian Ling, Ping Meng, Ye Liang, Kunyu Shen, Qinyu Wu, Yunfang Zhang, Qiyang Chen, Shuangqin Chen, Youhua Liu, Lili Zhou. Cannabinoid receptor 2 plays a central role in renal tubular mitochondrial dysfunction and kidney ageing. *J Cell Mol Med*. doi: 10.1111/jcmm.16857.
172. Lieyang Fan, Wei Li, Jixuan Ma, Man Cheng, Li Xie, Zi Ye, Yujia Xie, Bin Wang, Linling Yu, Yun Zhou, Weihong Chen. Benzo(a)pyrene induces airway epithelial injury through Wnt5a-mediated non-canonical Wnt-YAP/TAZ signaling. *Sci Total Environ*. doi: 10.1016/j.scitotenv.2021.151965.
173. Xiaowei Song, Yiliang Wang, Feng Li, Wenyan Cao, Qiongzen Zeng, Shurong Qin, Zhaoyang Wang, Jiaoyan Jia, Ji Xiao, Xiao Hu, Kaisheng Liu, Yifei Wang, Zhe Ren. Hsp90 Inhibitors Inhibit the Entry of Herpes Simplex Virus 1 Into Neuron Cells by Regulating Cofilin-Mediated F-Actin Reorganization. *Front Microbiol*. doi: 10.3389/fmicb.2021.799890.
174. Tao Wang, Liang Zhang, Wulong Liang, Shanchuan Liu, Wen Deng, Yangruiyu Liu, Yaru Liu, Mengzhao Song, Kangkang Guo, Yanming Zhang. Extracellular vesicles originating from autophagy mediate an antibody-resistant spread of classical swine fever virus in cell culture. *Autophagy*. doi: 10.1080/15548627.2021.1987673.
175. Congcong Wang, Lei Wang, Chengmeng Huang, Yungang Liu, Jian Liu, Hongxuan Kuang, Qihua Pang, Hongyu Han, Ruifang Fan. Involvement of NLRP3/Caspase-1/GSDMD-Dependent pyroptosis in BPA-Induced apoptosis of human neuroblastoma cells. *Biochem Pharmacol*. doi: 10.1016/j.bcp.2022.115042.
176. Jun Chen, Tao-Tao Tang, Jing-Yuan Cao, Zuo-Lin Li, Xin Zhong, Yi Wen, An-Ran Shen, Bi-Cheng Liu, Lin-Li Lv. KIM-1 augments hypoxia-induced tubulointerstitial inflammation through uptake of small extracellular vesicles by tubular epithelial cells. *Mol Ther*. doi: 10.1016/j.ymthe.2022.08.013.
177. Tao Wang, Jiayang Bai, Min Lu, Chenglong Huang, Dechun Geng, Gang Chen, Lei Wang, Jin Qi, Wenguo Cui, Lianfu Deng. Engineering immunomodulatory and osteoinductive implant surfaces via mussel adhesion-mediated ion coordination and molecular clicking. *Nat Commun*. doi: 10.1038/s41467-021-27816-1.
178. Liguang Xu, Xiuxiu Wang, Weiwei Wang, Maozhong Sun, Won Jin Choi, Ji-Young Kim, Changlong Hao, Si Li, Aihua Qu, Meiru Lu, Xiaoling Wu, Felipe M Colombari, Weverton R Gomes, Asdrubal L Blanco, Andre F de Moura, Xiao Guo, Hua Kuang, Nicholas A Kotov, Chuanlai Xu. Enantiomer-dependent immunological response to chiral nanoparticles. *Nature*. doi: 10.1038/s41586-021-04243-2.
179. Na Li, Beilei Hua, Qing Chen, Fukang Teng, Meiyu Ruan, Mengnan Zhu, Li Zhang, Yinbo Huo, Hongqin Liu, Min Zhuang, Huali Shen, Huanhu Zhu. A sphingolipid-mTORC1 nutrient-sensing pathway regulates animal development by an intestinal peroxisome relocation-based gut-brain crosstalk. *Cell Rep*. doi: 10.1016/j.celrep.2022.111140.
180. Xiao-Zhen Zhang, Lin-Lin Wei, Hui-Juan Jin, Xiao-Hui Zhang, Su-Ren Chen. The perinuclear theca protein Calicin helps shape the sperm head and maintain the nuclear structure in mice. *Cell Rep*. doi: 10.1016/j.celrep.2022.111049.
181. Feng Zhu, Hong Zheng, Suilin Chen, Kun Zhang, Xin Qin, Jingru Zhang, Taiping Liu, Yongling Fan, Liting Wang, Xiaoxu Li, Jian Zhang, Wenyue Xu. Malaria oocysts require circumsporozoite protein to evade mosquito immunity. *Nat Commun*. doi: 10.1038/s41467-022-30988-z.
182. Shaou Fu, An Thanh Phan, Dexin Mao, Xinlu Wang, Guangxia Gao, Stephen P Goff, Yiping Zhu. HIV-1 exploits the Fanconi anemia pathway for viral DNA integration. *Cell Rep*. doi: 10.1016/j.celrep.2022.110840.
183. Fanyuan Yu, Feifei Li, Peng Yu, Bin Zhou, Ling Ye. Identification and characterization of NFATc1+ skeletal stem cells in bone regeneration. *Cell Rep*. doi: 10.1016/j.celrep.2022.111599.
184. Qiyao Chai, Shanshan Yu, Yanzhao Zhong, Zhe Lu, Changgen Qiu, Yang Yu, Xinwen Zhang, Yong Zhang, Zehui Lei, Lihua Qiang, Bing-Xi Li, Yu Pang, Xiao-Bo Qiu, Jing Wang, Cui Hua Liu. A bacterial phospholipid phosphatase inhibits host pyroptosis by hijacking ubiquitin. *Science*. doi: 10.1126/science.abq0132.
185. Peng Wang, Zhitao Huang, Yili Peng, Hongwei Li, Tong Lin, Yingyu Zhao, Zheng Hu, Zhanmei Zhou, Weijie Zhou, Youhua Liu, Fan Fan Hou. Circular RNA circBNC2 inhibits epithelial cell G2-M arrest to prevent fibrotic maladaptive repair. *Nat Commun*. doi: 10.1038/s41467-022-34287-5.
186. Xue-Chun Ni, Hong-Fei Wang, Yuan-Yuan Cai, Dai Yang, Raphael N Alolga, Baolin Liu, Jia Li, Feng-Qing Huang. Ginsenoside Rb1 inhibits astrocyte activation and promotes transfer of astrocytic mitochondria to neurons against ischemic stroke. *Redox Biol*. doi: 10.1016/j.redox.2022.102363.
187. Ruimin Sun, Xinyao Tian, Yang Li, Yan Zhao, Zhecheng Wang, Yan Hu, Lijun Zhang, Yue Wang, Dongyan Gao, Shusen Zheng, Jihong Yao. The m6A reader YTHDF3-mediated PRDX3 translation alleviates liver fibrosis. *Redox Biol*. doi: 10.1016/j.redox.2022.102378.
188. Chuan He, Tie Wang, Yanwu Han, Changyang Zuo, Guangming Wang. E3 ubiquitin ligase COP1 confers neuroprotection in cerebral ischemia/reperfusion injury via regulation of transcription factor C/EBP β in microglia. *Int J Biol Macromol*. doi: 10.1016/j.ijbiomac.2022.09.264.
189. Minmin Fan, Jian Gao, Lin Zhou, Wenwen Xue, Yixuan Wang, Jingwei Chen, Wuhao Li, Ying Yu, Bo Liu, Yan Shen, Qiang Xu. Highly expressed SERCA2 triggers tumor cell autophagy and is a druggable vulnerability in triple-negative breast cancer. *Acta Pharm Sin B*. doi: 10.1016/j.apsb.2022.05.009.
190. Chang Li, Ziyi Wu, Hang Xue, Qiushi Gao, Yahan Zhang, Changming Wang, Ping Zhao. Ferroptosis contributes to hypoxic-ischemic brain injury in neonatal rats: Role of the SIRT1/Nrf2/GPx4 signaling pathway. *CNS Neurosci Ther*. doi: 10.1111/cns.13973.

191. Zhaodi Zhang, Jiahong Li, Ming Zhang, Binbin Li, XiaoHua Pan, Xiaoliang Dong, Li-Long Pan, Jia Sun. GPR109a Regulates Phenotypic and Functional Alterations in Macrophages and the Progression of Type 1 Diabetes. *Mol Nutr Food Res*. doi: 10.1002/mnfr.202200300.
192. Xiaohui Wu, Jianqiang Ye, Weixing Cai, Xi Yang, Qiuying Zou, Jingjing Lin, Hui Zheng, Chaoyun Wang, Liangwan Chen, Yumei Li. LDHA mediated degradation of extracellular matrix is a potential target for the treatment of aortic dissection. *Pharmacol Res*. doi: 10.1016/j.phrs.2021.106051.
193. Xunhua Liu, Jianxiong Chen, Xiaoli Long, Jiawen Lan, Xiaoting Liu, Miao Zhou, Sijing Zhang, Jun Zhou. RSL1D1 promotes the progression of colorectal cancer through RAN-mediated autophagy suppression. *Cell Death Dis*. doi: 10.1038/s41419-021-04492-z.
194. Shuxian Zhao, Mengxin Huang, Lili Yan, Hao Zhang, Chenchen Shi, Jing Liu, Shousong Zhao, Hongbo Liu, Baogui Wang. Exosomes Derived from Baicalin-Pretreated Mesenchymal Stem Cells Alleviate Hepatocyte Ferroptosis after Acute Liver Injury via the Keap1-NRF2 Pathway. *Oxid Med Cell Longev*. doi: 10.1155/2022/8287227.
195. Wei Lu, Hongqiao Zhu, Jiawen Wu, Sheng Liao, Guobing Cheng, Xiaoyang Li. Rhein attenuates angiotensin II-induced cardiac remodeling by modulating AMPK-FGF23 signaling. *J Transl Med*. doi: 10.1186/s12967-022-03482-9.
196. Chuan-Jian Shi, Shi-Ying Li, Chun-Hui Shen, Fei-Fei Pan, Li-Qiang Deng, Wei-Ming Fu, Ji-Yong Wang, Jin-Fang Zhang. Icariside II suppressed tumorigenesis by epigenetically regulating the circ β -catenin-Wnt/ β -catenin axis in colorectal cancer. *Bioorg Chem*. doi: 10.1016/j.bioorg.2022.105800.
197. Jiaxin Yang, WeiNan Zeng, Ping Xu, Xiaoxue Fu, Xiaojuan Yu, Lu Chen, Feng Leng, Chao Yu, Zhangyou Yang. Glucose-responsive multifunctional metal-organic drug-loaded hydrogel for diabetic wound healing. *Acta Biomater*. doi: 10.1016/j.actbio.2021.11.043.
198. Hui Zhao, Jiannan Gong, Lifang Li, Shuyin Zhi, Guang Yang, Pingping Li, Ruina Li, Jianqiang Li. Vitamin E relieves chronic obstructive pulmonary disease by inhibiting COX2-mediated p-STAT3 nuclear translocation through the EGFR/MAPK signaling pathway. *Lab Invest*. doi: 10.1038/s41374-021-00652-z.
199. Minghui Li, Yuxiao Zeng, Lingling Ge, Jing Gong, Chuanhuang Weng, Cao Yang, Junling Yang, Yajie Fang, Qiyu Li, Ting Zou, Haiwei Xu. Evaluation of the influences of low dose polybrominated diphenyl ethers exposure on human early retinal development. *Environ Int*. doi: 10.1016/j.envint.2022.107187.
200. Chenxu Ge, Jun Tan, Deshuai Lou, Liancai Zhu, Zixuan Zhong, Xianling Dai, Yan Sun, Qin Kuang, Junjie Zhao, Longyan Wang, Jin Liu, Bochu Wang, Minxuan Xu. Mulberrin confers protection against hepatic fibrosis by Trim31/Nrf2 signaling. *Redox Biol*. doi: 10.1016/j.redox.2022.102274.
201. Zhibin Zhou, Lei Zhu. Epitranscriptomic analysis of m6A methylome in rats after lumbosacral nerve root avulsion. *Epigenomics*. doi: 10.2217/epi-2022-0127.
202. Qian Hu, Xiao-Ming Liu, Zheng-Ren Liu, Zhi-Yi Liu, Huai-Gen Zhang, Qin Zhang, Yuan-Lu Huang, Qiu-Hong Chen, Wen-Xiang Wang, XueKang Zhang. Dexmedetomidine reduces enteric glial cell injury induced by intestinal ischaemia-reperfusion injury through mitochondrial localization of TERT. *J Cell Mol Med*. doi: 10.1111/jcmm.17261.
203. Xinyuan Yuan, Teliang Lu, Fupo He, Tingting Wu, Xiaolan Wang, Jiandong Ye. 3D-plotted zinc silicate/ β -tricalcium phosphate ceramic scaffolds enable fast osteogenesis by activating the p38 signaling pathway. *J Mater Chem B*. doi: 10.1039/d2tb01868c.
204. Xiang Gong, Jie Li, Xiaoxuan Xu, Yao Wu, Ying Lei, Huanzhen Liu, Xindi Qian, Yaping Li, Zhiwen Zhang. Microvesicle-inspired oxygen-delivering nanosystem potentiates radiotherapy-mediated modulation of tumor stroma and antitumor immunity. *Biomaterials*. doi: 10.1016/j.biomaterials.2022.121855.
205. Jie Yu, Yao Cheng, Yaru Cui, Yujie Zhai, Wenshen Zhang, Mengdi Zhang, Wenyu Xin, Jia Liang, Xiaohong Pan, Qiaoyun Wang, Hongliu Sun. Anti-Seizure and Neuronal Protective Effects of Irisin in Kainic Acid-Induced Chronic Epilepsy Model with Spontaneous Seizures. *Neurosci Bull*. doi: 10.1007/s12264-022-00914-w.
206. Chunyan Liu, Wenli Zhao, Ligang Zhang, Huamin Sun, Xi Chen, Ning Deng. Preparation of DSPE-PEG-cRGD Modified Cationic Liposomes for Delivery of OC-2 shRNA and The Antitumor Effects on Breast Cancer. *Pharmaceutics*. doi: 10.3390/pharmaceutics14102157.
207. Tongtong Ma, Hongwei Li, Hui Liu, Yili Peng, Tong Lin, Zhiya Deng, Nan Jia, Zhongqing Chen, Peng Wang. Neat1 promotes acute kidney injury to chronic kidney disease by facilitating tubular epithelial cells apoptosis via sequestering miR-129-5p. *Mol Ther*. doi: 10.1016/j.ymthe.2022.05.019.
208. Zongkun Hou, Run Meng, Ganghua Chen, Tangmin Lai, Rui Qing, Shilei Hao, Jia Deng, Bochu Wang. Distinct accumulation of nanoplastics in human intestinal organoids. *Sci Total Environ*. doi: 10.1016/j.scitotenv.2022.155811.
209. Wenzhi Yang, Yi Zhang, Jiajia Wang, Haiying Li, Hu Yang. Glycyrhethinic acid-cyclodextrin grafted pullulan nanoparticles loaded doxorubicin as a liver targeted delivery carrier. *Int J Biol Macromol*. doi: 10.1016/j.ijbiomac.2022.07.182.
210. Ning Yang, Yunhang Zhang, Yuguang Fu, Yang Li, Shanshan Yang, Jianing Chen, Guangliang Liu. Transmissible Gastroenteritis Virus Infection Promotes the Self-Renewal of Porcine Intestinal Stem Cells via Wnt/ β -Catenin Pathway. *J Virol*. doi: 10.1128/jvi.00962-22.
211. Haoqu Tan, Jinfang Hu, Wei Zuo, Yun Huang, Jian Cui, Fei Gong, Wei Bai. Loss of RAGE prevents chronic intermittent hypoxia-induced nonalcoholic fatty liver disease via blockade of NF- κ B pathway. *Gene Ther*. doi: 10.1038/s41434-022-00351-4.
212. Xuan Lu, Lunhao Chen, Chao Jiang, Kelei Cao, Zhihua Gao, Yue Wang. Microglia and macrophages contribute to the development and maintenance of sciatica in lumbar disc herniation. *Pain*. doi: 10.1097/j.pain.0000000000002708.
213. Hao Wu, Lu-Xun Tang, Xue-Mei Wang, Liang-Peng Li, Xiao-Kang Chen, Yan-Ji He, De-Zhong Yang, Yu Shi, Jia-Ling Shou, Zong-Shu Zhang, Liang Wang, Bing-Jun Lu, Songzhu Michael An, Chun-Yu Zeng, Wei Eric Wang. Porcupine inhibitor CGX1321 alleviates heart failure with preserved ejection fraction in mice by blocking WNT signaling. *Acta Pharmacol Sin*. doi: 10.1038/s41401-022-01025-y.

注：更多使用本产品的文献请参考产品网页。

Version 2024.03.12