



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

## BCA蛋白浓度测定试剂盒

产品编号	产品名称	包装
P0012	BCA蛋白浓度测定试剂盒	500次

### 产品简介:

- BCA蛋白浓度测定试剂盒(BCA Protein Assay Kit)是根据目前世界上最常用的两种蛋白浓度检测方法之一BCA法研制而成，实现了蛋白浓度测定的简单、高稳定性、高灵敏度和高兼容性。
- 灵敏度高，检测浓度下限达到25 μg/ml，最小检测蛋白量达到0.5 μg，待测样品体积为1-20 μl。
- 在50-2000 μg/ml浓度范围内有较好的线性关系。
- BCA法测定蛋白浓度不受绝大部分样品中的化学物质的影响，可以兼容样品中高达5%的SDS，5%的Triton X-100，5%的Tween20、60、80。但本试剂盒受螯合剂和略高浓度的还原剂的影响，需确保EDTA低于10mM，无EGTA，二硫苏糖醇(DTT)低于1mM，β-巯基乙醇(β-Mercaptoethanol)低于0.01%。不适用BCA法时建议试用碧云天生产的Bradford蛋白浓度测定试剂盒(P0006)。
- BCA蛋白浓度测定试剂盒对样品中各种物质的详细的兼容性，请参见碧云天如下网页：  
<http://www.beyotime.com/Compatibility Chart For BCA Kit.pdf>
- 每个试剂盒可以检测5000个样品。

### 包装清单:

产品编号	产品名称	包装
P0012-1	BCA试剂 A	100ml
P0012-2	BCA试剂 B	3ml
P0012-3	蛋白标准(BSA)	30mg
P0012-4	蛋白标准配制液	1.5ml
—	说明书	1份

### 保存条件:

室温保存。蛋白标准配制成溶液后-20 ℃冻存。

### 注意事项:

- 需酶标仪一台，测定波长为540-595nm之间，562nm最佳。需96孔板。如果没有酶标仪，也可以使用普通的分光光度计测定，但测定时，需根据比色皿的最小检测体积，适当加大BCA工作液的用量使不小于最小检测体积，样品和标准品的用量可相应按比例放大也可不变。使用分光光度计测定蛋白浓度时，每个试剂盒可以测定的样品数量可能会显著减少。
- 如发现样品稀释液或裂解液本身就有较高背景，请试用碧云天生产的Bradford蛋白浓度测定试剂盒(P0006)。
- 为了加快BCA法测定蛋白浓度的速度可以适当用微波炉加热，但是切勿过热。
- EDTA浓度必须小于10mM，不兼容EGTA。不适用BCA法时，请试用碧云天生产的Bradford蛋白浓度测定试剂盒(P0006)。
- 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. 蛋白标准品的准备

- a. 取1.2ml蛋白标准配制液加入到一管蛋白标准(30mg BSA)中，充分溶解后配制成**25mg/ml**的蛋白标准溶液。配制后可立即使用，也可以-20 ℃长期保存。
- b. 取适量25mg/ml蛋白标准，稀释至终浓度为**0.5mg/ml**。例如取20 μl 25mg/ml蛋白标准，加入980 μl稀释液即可配制成0.5mg/ml蛋白标准。蛋白样品在什么溶液中，标准品也宜用什么溶液稀释。但是为了简便起见，也可以用0.9% NaCl或PBS稀释标准品。稀释后的0.5mg/ml蛋白标准可以-20 ℃长期保存。

#### 2. BCA工作液配制

根据样品数量，按50体积BCA试剂A加1体积BCA试剂B(**50:1**)配制适量BCA工作液，充分混匀。例如5ml BCA试剂A加100 μl BCA试剂B，混匀，配制成5.1ml BCA工作液。BCA工作液室温24小时内稳定。

#### 3. 蛋白浓度测定

- a. 将标准品按0、1、2、4、8、12、16、20 μl加到96孔板的标准品孔中，加标准品稀释液补足到**20 μl**，相当于标准品浓度分

别为0、0.025、0.05、0.1、0.2、0.3、0.4、0.5mg/ml。

b. 加适当体积样品到96孔板的样品孔中。如果样品不足20 $\mu$ l，需加标准品稀释液补足到20 $\mu$ l。请注意记录样品体积。

c. 各孔加入200 $\mu$ l BCA工作液，37℃放置20-30分钟。

注：也可以室温放置2小时，或60℃放置30分钟。BCA法测定蛋白浓度时，颜色会随着时间的延长不断加深。并且显色反应会因温度升高而加快。如果浓度较低，适合在较高温度孵育，或适当延长孵育时间。

d. 用酶标仪测定A562，或540-595nm之间的其他波长的吸光度。

e. 根据标准曲线和使用的样品体积计算出样品的蛋白浓度。

## 常见问题：

### 1. 测定标准曲线时发现随着标准品浓度的增加吸光度或颜色没有明显变化。

可能的原因是样品中含有严重干扰BCA法测定蛋白浓度的物质，详细的BCA法的兼容性列表请参考碧云天如下网页：[http://www.beyotime.com/Compatibility Chart For BCA Kit.pdf](http://www.beyotime.com/Compatibility%20Chart%20For%20BCA%20Kit.pdf)

### 2. 是否每次测定时都需要做标准曲线？

建议每次测定时都做标准曲线。因为BCA法测定时颜色会随着时间的延长不断加深，并且显色反应的速度和温度有关，所以除非精确控制显色反应的时间和温度，否则如需精确测定宜每次都做标准曲线。

## 相关产品：

产品编号	产品名称	包装
P0006	Bradford蛋白浓度测定试剂盒	1000次
P0006C	Bradford蛋白浓度测定试剂盒(去垢剂兼容型)	800次
P0007	蛋白标准(5mg/ml BSA)	1ml
P0009	BCA蛋白浓度测定试剂盒(增强型)	5000次
P0010	BCA蛋白浓度测定试剂盒(增强型)	500次
P0010S	BCA蛋白浓度测定试剂盒(增强型)	200次
P0011	BCA蛋白浓度测定试剂盒	5000次
P0012	BCA蛋白浓度测定试剂盒	500次
P0012S	BCA蛋白浓度测定试剂盒	200次

## 使用本产品的文献：

- Wu RC, Wang Z, Liu MJ, Chen DF, Yue XS, Yue.  $\beta$  2-integrins mediate a novel form of chemoresistance in cycloheximide-induced U937 apoptosis. *Cell. Mol. Life Sci.* 2004;61(16):2071-2082.
- Liu MJ, Yue PY, Wang Z, Wong RN. Methyl protodioscin induces G2/M arrest and apoptosis in K562 cells with the hyperpolarization of mitochondria. *Cancer Lett.* 2005;224:229-241.
- Yi ZC, Liu YZ, Li HX, Yin Y, Zhuang FY, Fan YB, Wang Z. Tellimagrandin I enhances gap junctional communication and attenuates the tumor phenotype of human cervical carcinoma HeLa cells in vitro. *Cancer Lett.* 2006 Oct 8;242(1):77-87.
- Ma JF, Guo JL, Peng LW, Chen CY, Zhang LX. Decrease of photosystem II photochemistry in Arabidopsis ppt1 mutant is dependent on leaf age. *J Integr Plant Biol.* 2006;48(12):1409-1414.
- Huang YY, Deng JY, Gu J, Zhang ZP, Maxwell A, Bi LJ, Chen YY, Zhou YF, Yu ZN, Zhang XE. The key DNA-binding residues in the C-terminal domain of Mycobacterium tuberculosis DNA gyrase A subunit (GyrA). *Nucleic Acids Res.* 2006;34(19):5650-5659.
- Deng XQ, Chen LL, Li NX. The expression of SIRT1 in nonalcoholic fatty liver disease induced by high-fat diet in rats. *Liver Int.* 2007 Jun;27(5):708-15.
- Gao MQ, Guo SB, Chen XH, Du W, Wang CB. Molecular mechanisms of polypeptide from Chlamy. farreri protecting HaCaT cells from apoptosis induced by UVA plus UVB. *Acta Pharmacol Sin.* 2007 Jul;28(7):1007-14.
- Yu S, Geng J, Zhou P, Wang J, Feng A, Chen X, Tong H, Hu J. Application of a new hybrid organic-inorganic monolithic column for efficient deoxyribonucleic acid purification. *Anal Chim Acta.* 2008 Mar 24;611(2):173-81.
- Tian B, Wang Z, Zhao Y, Wang D, Li Y, Ma L, Li X, Li J, Xiao N, Tian J, Rodriguez R. Effects of curcumin on bladder cancer cells and development of urothelial tumors in a rat bladder carcinogenesis model. *Cancer Lett.* 2008 Jun 18;264(2):299-308.
- Gao F, Wu DQ, Hu YH, Jin GX, Li GD, Sun TW, Li FJ. In vitro cultivation of islet-like cell clusters from human umbilical cord blood-derived mesenchymal stem cells. *Transl Res.* 2008 Jun;151(6):293-302.
- An R, Dong C, Lei Y, Han L, Li P, Chen J, Wang G, Shi Q, Gao C, Jiang H, Zhou W, Han J, Chu Y, Dong X. PrP mutants with different numbers of octarepeat sequences are more susceptible to the oxidative stress. *Sc China Life Sci.* 2008 Jul;51(7):630-9.
- Zhu M, Gu F, Shi J, Hu J, Hu Y, Zhao Z. Increased oxidative stress and astrogliosis responses in conditional double-knockout mice of Alzheimer-like presenilin-1 and presenilin-2. *Free Radical Bio Med*
- Liu XS, Jiang J, Jiao XY, Wu YE, Lin JH, Cai YM. Lycorine induces apoptosis and down-regulation of Mcl-1 in human leukemia cells. *Cancer Lett.* 2009 Feb 8;274(1):16-24.
- Xiao X, Liu A, Wen H, Tian Y, Ni J, Liu G. Expression and localization of transcription factor Ets-1 in the rat ovary during the estrous cycle and pregnancy. *Fertil Steril.* 2009 May;91(5):1998-2005.
- Liao Z, Huang C, Zhou F, Xiong J, Bao J, Zhang H, Sun W, Xie C, Zhou Y. Radiation enhances suicide gene therapy in radiosensitive laryngeal squamous cell carcinoma via activation of a tumor-specific promoter. *Cancer Lett.* 2009 Sep 28;283(1):20-8.
- Ma K, Hu M, Qi Y, Qiu L, Jin Y, Yu J, Li B. Structure-transfection activity relationships with glucocorticoid-polyethyl-enimine conjugate nuclear gene delivery systems. *Biomaterials.* 2009 Aug;30(22):3780-9.
- Chen WL, Qian Y, Meng WF, Pang JY, Lin YC, Guan YY, Chen SP, Liu J, Pei Z, Wang GL. A novel marine compound xyloketal B protects against oxidized LDL-induced cell injury in vitro. *Biochem Pharmacol.* 2009 Oct 15;78(8):941-50.
- Fan L, Lin C, Zhuo S, Chen L, Liu N, Luo Y, Fang J, Huang Z, Lin Y, Chen J. Transplantation with survivin-engineered mesenchymal stem cells results in better prognosis in a rat model of myocardial infarction. *Eur J Heart Fail.* 2009;11(11):1023-30.
- Ma K, Hu MX, Qi Y, Zou JH, Qiu LY, Jin Y, Ying XY, Sun HY. PAMAM-triamcinolone acetonide conjugate as a nucleus-targeting gene carrier for enhanced transfer activity. *Biomaterials.* 2009 Oct;30(30):6109-18.
- Xu Y, Ge R, Du J, Xin H, Yi T, Sheng J, Wang Y, Ling C. Corosolic acid induces apoptosis through mitochondrial pathway and caspase activation in human cervix adenocarcinoma HeLa cells. *Cancer Lett.* 2009 Nov 1; 284(2):229-237.
- Wu W, Yan C, Gan T, Chen Z, Lu X, Duerksen-Hughes PJ, Zhu X, Yang J. Nuclear proteome analysis of cisplatin-treated HeLa cells. *Mutat Res-rev Mutat.* 2010;691(1-2):1-8.
- Yuan D, Pan Y, Zhang J, Shao C. Role of nuclear factor-kappaB and P53 in radioadaptive response in Chang live cells. *Mutat Res.* 2010 Jun 1;688(1-2):66-71.
- Wu GJ, Zhou LZ, Wang KW, Chen F, Sun Y, Duan YR, Zhu YJ, Gu HC. Hydroxylapatite nanorods: An efficient and promising carrier for gene transfection. *J Colloid Interface Sci.* 2010 May 15;345(2):427-432.
- Liu M, Zhou G, Song W, Li P, Liu H, Niu X, Fan Y. Effect of nano-hydroxyapatite on the axonal guidance growth of rat cortical neurons. *Nanoscale.* 2012 May 21;4(10):3201-3207.
- Zhang L, Ding W, Sun H, Zhou Q, Huang J, Li X, Xie Y, Chen J. Salidroside protects PC12 cells from MPP(+) -induced apoptosis via activation of the PI3K/Akt pathway. *Food Chem Toxicol.* 2012 Aug;50(8):2591-7.
- Zhang YS, He L, Liu B, Li NS, Luo XJ, Hu CP, Ma QL, Zhang GG, Li YJ, Peng

- J.A novel pathway of NADPH oxidase/vascular peroxidase 1 in mediating oxidative injury following ischemia-reperfusion.Basic Res Cardiol. 2012;107(3):266.
27. Xu MF, Xiong YY, Liu JK, Qian JJ, Zhu L, Gao J.Asiatic acid, a pentacyclic triterpene in Centella asiatica, attenuates glutamate-induced cognitive deficits in mice and apoptosis in SH-SY5Y cells.Acta Pharmacol Sin. 2012 May;33(5):578-87.
  28. Fauze NJ, Wang YL, Dong Z, Li QG, Wang T, Mandarry MT, Xu L, Pan J.Novel hydrophilic docetaxel (CQMU-0519) analogue inhibits proliferation and induces apoptosis in human A549 lung, SKVO3 ovarian and MCF7 breast carcinoma cell lines.Cell Proliferat. 2012 Aug;45(4):352-64.
  29. Zhou YM, Zhang XF, Cao L, Li B, Sui CJ, Li YM, Yin ZFMC7 expression predicts post-operative prognosis for hepatocellular carcinoma.Liver Int. 2012 Nov;32(10):1505-9.
  30. Sang H, Zhang L, Li J.Anti-benzopyrene-7,8-diol-9,10-epoxide induces apoptosis via mitochondrial pathway in human bronchiolar epithelium cells independent of the mitochondria permeability transition pore.Food Chem Toxicol. 2012 Jul;50(7):2417-23.
  31. Zhu XB, Wang YB, Chen O, Zhang DQ, Zhang ZH, Cao AH, Huang SY, Sun RP.Characterization of the expression of macrophage inflammatory protein-1 $\alpha$  (MIP-1 $\alpha$ ) and chemokine receptor CCR5 after kainic acid-induced status epilepticus (SE) in juvenile rats.Neuropath Appl Neuro. 2012 Oct;38(6):602-16.
  32. Jin M, Zhang L, Yu H, Meng J, Sun Z, Lu R.Protective effect of whey protein hydrolysates on H2O2-induced PC12 cells oxidative stress via a mitochondria-mediated pathway.Food Chemistry.2013 Nov 15;141(2):847-852.
  33. Yue Y, Yang X, Wei X, Chen J, Fu N, Fu Y, Ba K, Li G, Yao Y, Liang C, Zhang J, Cai X, Wang M.Osteogenic differentiation of adipose-derived stem cells prompted by low-intensity pulsed ultrasound.Cell Proliferat
  34. Tang L, Ma X, Tian Q, Cheng Y, Yao H, Liu Z, Qu X, Han X.Inhibition of angiogenesis and invasion by DMBT is mediated by downregulation of VEGF and MMP-9 through Akt pathway in MDA-MB-231 breast cancer cells.Food Chem Toxicol.2013 Jun;56:204-13.
  35. Yan W, Zhang H, Liu P, Wang H, Liu J, Gao C, Liu Y, Lian K, Yang L, Sun L, Guo Y, Zhang L, Dong L, Lau WB, Gao E, Gao F, Xiong L, Wang H, Qu Y, Tao L.Impaired mitochondrial biogenesis due to dysfunctional adiponectin-AMPK-PGC-1 $\alpha$  signaling contributing to increased vulnerability in diabetic heart.Basic Res Cardiol.2013 May;108(3):329.
  36. Li X, Wang X, Han C, Wang X, Xing G, Zhou L, Li G, Niu Y.Astragaloside IV suppresses collagen production of activated hepatic stellate cells via oxidative stress-mediated p38 MAPK pathway.Free Radical Bio Med.2013 Jul;60:168-76.
  37. Jing J, Liu H, Chen H, Hu S, Xiao K, Ma X.Acute effect of copper and cadmium exposure on the expression of heat shock protein 70 in the Cyprinidae fish Tanichthys albonubes.Chemosphere.2013 May;91(8):1113-22.
  38. Li L, Ye XP, Lu AZ, Zhou SQ, Liu H, Liu ZJ, Jiang S, Xu SY.Hyperglycemia magnifies bupivacaine-induced cell apoptosis triggered by mitochondria dysfunction and endoplasmic reticulum stress. J Neurosci Res. 2013 Jun; 91(6):786-798.
  39. Zhang JX, Yang JR, Chen GX, Tang LJ, Li WX, Yang H, Kong X.Sesamin ameliorates arterial dysfunction in spontaneously hypertensive rats via downregulation of NADPH oxidase subunits and upregulation of eNOS expression.Acta Pharmacol Sin.2013 Jul;34(7):912-20.
  40. Li LL, Wang H. Enzyme-Coated Mesoporous Silica Nanoparticles as Efficient Antibacterial Agents In Vivo. Adv Health Mater. 2013 Oct; 2(10):1351-1360.
  41. Tang Z, Wu M, Li Y, Zheng X, Liu H, Cheng X, Xu L, Wang G, Hao H.Absolute quantification of NAD(P)H:quinone oxidoreductase 1 in human tumor cell lines and tissues by liquid chromatography-mass spectrometry/mass spectrometry using both isotopic and non-isotopic internal standards.Anal Chim Acta. 2013 Apr 15;772:59-67.
  42. Ding J, Li QY, Yu JZ, Wang X, Lu CZ, Ma CG, Xiao BG. Carbamylated erythropoietin ameliorates hypoxia-induced cognitive and behavioral defects with the generation of choline acetyltransferase-positive neurons. J Neurosci Res. 2013 Jan;91(1):73-82
  43. Qing Y, Liang Y, Du Q, Fan P, Xu H, Xu Y, Shi N.Apoptosis induced by Trimethyltin chloride in human neuroblastoma cells SY5Y is regulated by a balance and cross-talk between NF- $\kappa$ B and MAPKs signaling pathways.Arch Toxicol. 2013 Jul;87(7):1273-85..
  44. Sui Z, Yuan H, Liang Z, Zhao Q, Wu Q, Xia S, Zhang L, Huo Y, Zhang Y.An activity-maintaining sequential protein extraction method for bioactive assay and proteome analysis of velvet antlers.Talanta . 2013 Mar 30;107:189-94.
  45. Chen X, Gu M, Zhao X, Zheng X, Qin Y, You X.Deterioration of cardiac function after acute myocardial infarction is prevented by transplantation of modified endothelial progenitor cells overexpressing endothelial NO synthases.Cell Physiol Biochem.2013;31(2-3):355-65.
  46. Huo K, Zhang X, Wang H, Zhao L, Liu X, Chu PK.Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays.Biomaterials.2013 Apr;34(13):3467-78.
  47. Wu W, Yang J, Feng X, Wang H, Ye S, Yang P, Tan W, Wei G, Zhou Y.MicroRNA-32 (miR-32) regulates phosphatase and tensin homologue (PTEN) expression and promotes growth,migration, and invasion in colorectal carcinoma cells. Mol Cancer. 2013 Apr 23;12:30.
  48. Zhou D, Wei A, Cao C, Ruan J.DICO, a novel nonaromatic B-ring flavonoid, induces G2/M cell cycle arrest and apoptosis in human hepatoma cells.Food Chem Toxicol.2013 Jul;57:322-9.
  49. Sun L, Zhao M, Yu XJ, Wang H, He X, Liu JK, Zang WJ. Cardioprotection by acetylcholine: a novel mechanism via mitochondrial biogenesis and function involving the PGC-1 $\alpha$  pathway.J Cell Physiol. 2013 Jun;228(6):1238-1248.
  50. Chen O, Ye Z, Cao Z, Manaenko A, Ning K, Zhai X, Zhang R, Zhang T, Chen X, Liu W, Sun X. Methane attenuates myocardial ischemia injury in rats through anti-oxidative, anti-apoptotic and anti-inflammatory actions. Free Radic Biol Med. 2015 Nov 14;90:1-11.
  51. Hu Y, Lin X, Wang P, Xue YX, Li Z, Liu LB, Yu B, Feng TD, Liu YH.CRM197 in combination with shRNA interference of VCAM-1 displays enhanced inhibitory effects on human glioblastoma cells.J Cell Physiol. 2015 Aug;230(8):1713-28.
  52. Lv QY, Wan B, Guo LH, Zhao L, Yang Y.In vitro immune toxicity of polybrominated diphenyl ethers on murine peritoneal macrophages: apoptosis and immune cell dysfunction.Chemosphere. 2015 Feb;120:621-30.
  53. Ailijiang N, Chang J, Liang P, Li P, Wu Q, Zhang X, Huang X. Electrical stimulation on biodegradation of phenol and responses of microbial communities in conductive carriers supported biofilms of the bioelectrochemical reactor. Bioresour Technol. 2016 Feb;201:1-7.
  54. Chen L, Mao F, Kirumba GC, Jiang C, Manefield M, He Y.Changes in metabolites, antioxidant system, and gene expression in *Microcystis aeruginosa* under sodium chloride stress.Ecotox Environ Safe. 2015 Dec;122:126-35.
  55. Yu C, Zhou Z, Wang J, Sun J, Liu W, Sun Y, Kong B, Yang H, Yang S.In depth analysis of apoptosis induced by silica coated manganese oxide nanoparticles in vitro.J Hazard Mater. 2015;283:519-28.
  56. Liu Y, Wang J, Ni T, Wang L, Wang Y, Sun X .CCL20 mediates RANK/RANKL-induced epithelial-mesenchymal transition in endometrial.Oncotarget. 2016 May 3;7(18):25328-39.
  57. Dong YF, Chen ZZ, Zhao Z, Yang DD, Yan H, Ji J, Sun XL.Potential role of microRNA-7 in the anti-neuroinflammation effects of nicorandil in astrocytes induced by oxygen-glucose deprivation.J Neuroinflamm. 2016 Mar 9;13(1):60.
  58. Liu D, Li Y, Luo G, Xiao X, Tao D, Wu X , Wang M, Huang C, Wang L, Zeng F, Jiang G .LncRNA SPRY4-IT1 sponges miR-101-3p to promote proliferation and metastasis of bladder cancer cellsthrough up-regulating EZH2.Cancer Lett. 2016 Dec 18;388:281-291.
  59. Liu Z, Gan L, Wu T, Feng F, Luo D, Gu H, Liu S, Sun C .Adiponectin reduces ER stress-induced apoptosis through PPAR $\alpha$  transcriptional regulation.Cell Death Dis. 2016 Nov 24;7(11):e2487.
  60. Chen Y, Huang W, Jiang W, Wu X, Ye B, Zhou X .HIV-1 Tat Regulates Occludin and A $\beta$  Transfer Receptor Expression in Brain Endothelial Cells.Oxid Med Cell Longev.2016;2016:4196572.
  61. Xu T, Qin L, Zhu Z, Wang X, Liu Y, Fan Y, Zhong S, Wang X, Zhang X, Xia L, Zhang X, Xu C, Shen Z.MicroRNA-31 functions as a tumor suppressor and increases sensitivity to mitomycin-C in urothelialbladder cancer by targeting integrin  $\alpha$ 5.Oncotarget. 2016 May 10;7(19):27445-57.
  62. Wang L, Zhang S, Cheng H, Lv H, Cheng G, Ci X.Nrf2-mediated liver protection by esculentoside A against acetaminophen toxicity through theAMPK/Akt/GSK3 $\beta$  pathway.Free Radical Bio Med. 2016 Dec;101:401-412.
  63. Yao S, Tian C, Ding Y, Ye Q, Gao Y, Yang N, Li Q.Down-regulation of Krüppel-like factor-4 by microRNA-135a-5p promotes proliferation and metastasis in hepatocellular carcinoma by transforming growth factor- $\beta$ 1.Oncotarget. 2016 Jul 5;7(27):42566-42578.
  64. Song Y, Yuan L, Wang Y, Chen M, Deng J, Lv Q, Sui T, Li Z, Lai L .Efficient dual sgRNA-directed large gene deletion in rabbit with CRISPR/Cas9 system..2016 Aug;73(15):2959-68.
  65. Deng Z, Liu X, Jin J, Xu H, Gao Q, Wang Y, Zhao J .Histone Deacetylase Inhibitor Trichostatin a Promotes the Apoptosis of Osteosarcoma Cells through p53Signaling Pathway Activation.Int J Biol Sci. 2016 Oct 18;12(11):1298-1308.
  66. Han Y, Yang X, Zhao N, Peng J, Gao H, Qiu X.Alpinumisoflavone induces apoptosis in esophageal squamous cell carcinoma by modulating miR-370/PIM1sigAm J Cancer Res. 2016 Dec 1;6(12):2755-2771.
  67. Lu Y, Xu S, Chen H, He M, Deng Y, Cao Z, Pi H, Chen C, Li M, Ma Q, Gao P, Ji Y, Zhang L, Yu Z, Zhou Z .CdSe/ZnS quantum dots induce hepatocyte pyroptosis and liver inflammation via NLRP3 inflammasomeactivatBiomaterials. 2016 Jun;90:27-39.
  68. Huang T, Yin L, Wu J, Gu JJ, Wu JZ, Chen D, Yu HL, Ding K, Zhang N, Du MY, Qian LX, Lu ZW, He X.MicroRNA-19b-3p regulates nasopharyngeal carcinoma radiosensitivity by targeting TNFAIP3/NF- $\kappa$ B axis.J Exp Clin Canc Res
  69. Yan F, Dai G, Zheng X .Mulberry anthocyanin extract ameliorates insulin resistance by regulating PI3K/AKT pathway in HepG2 cellsand db/db mice.J Nutr Biochem. 2016 Oct;36:68-80.
  70. Li R, Wang Y, Zhao E, Wu K, Li W, Shi L, Wang D, Xie G, Yin Y, Deng M, Zhang P, Tao K .Maresin 1, a Proresolving Lipid Mediator, Mitigates Carbon Tetrachloride-Induced.Oxid Med Cell Longev. 2016;2016:9203716.
  71. Tongqiang L, Shaopeng L, Xiaofang Y, Nana S, Xialian X, Jiachang H, Ting Z, Xiaoqiang D .Salvianolic Acid B Prevents Iodinated Contrast Media-Induced Acute Renal Injury in Rats via thePI3K/Akt/Nrf2 Pathway.Oxid Med Cell Longev..2016;2016:7079487.
  72. Dai C, Li B, Zhou Y, Li D, Zhang S, Li H, Xiao X, Tang S.Curcumin attenuates quinacetone induced apoptosis and inflammation via the opposite modulation ofNrf2/HO-1 and NF- $\kappa$ B pathway in human hepatocyte L02 cells.Food Chem Toxicol. 2016 Sep;95:52-63.
  73. Qin WD, Liu GL, Wang J, Wang H, Zhang JN, Zhang F, Ma Y, Ji XY, Li C, Zhang

- MX .Poly(ADP-ribose) polymerase 1 inhibition protects cardiomyocytes from inflammation and apoptosis in diabetics cardiomyopathy.Oncotarget. 2016 Jun 14;7(24):35618-35631.
74. Han Y, Liao X, Gao Z, Yang S, Chen C, Liu Y, Wang WE, Wu G, Chen X, Jose PA, Zhang Y, Zeng C .Ctnl Exacerbates Myocardial Ischemia/Reperfusion Injury by Inducing Adhesion of Monocytes to VECs via TLR4/NF- $\kappa$ B-dependent Pathway.Clin Sci. 2016 Sep 28. pii: CS20160373.
  75. Tang Y, Cui Y, Li Z, Jiao Z, Zhang Y, He Y, Chen G, Zhou Q, Wang W, Zhou X, Luo J, Zhang S.Radiation-induced miR-208a increases the proliferation and radioresistance by targeting p21 in human lung cancer cellsJ Exp Clin Canc Res
  76. Guo W, Yu D, Wang X, Luo C, Chen Y, Lei W, Wang C, Ge Y, Xue W, Tian Q, Gao X, Yao W .Anti-inflammatory effects of interleukin-23 receptor cytokine-binding homology region rebalance T cell distribution in rodent collagen-induced arthritis.Oncotarget. 2016 May 31;7(22):31800-13.
  77. Yang M, Zhang F, Qin K, Wu M, Li H, Zhu H, Ning Q, Lei P, Shen G.Glucose-Regulated Protein 78-Induced Myeloid Antigen-Presenting Cells Maintained Tolerogenic Signature upon LPS Stimulation. Front Immunol. 2016 Dec 1;7:552.
  78. Bai J, Zheng Y, Wang G, Liu P.Protective Effect of D-Limonene against Oxidative Stress-Induced Cell Damage in Human Lens Epithelial Cells via the p38 Pathway.Oxid Med Cell Longev. 2016;2016:5962832.
  79. Cao Z, Fang Y, Lu Y, Qian F, Ma Q, He M, Pi H, Yu Z, Zhou Z .Exposure to nickel oxide nanoparticles induces pulmonary inflammation through NLRP3 inflammasome activation in rats.Int J Nanomed. 2016 Jul 22;11:3331-46.
  80. Wang Y, Liu Q, Xu Y, Zhang Y, Lv Y, Tan Y, Jiang N, Cao G, Ma X, Wang J, Cao Z, Yu B, Kou J .Ginsenoside Rg1 Protects against Oxidative Stress-induced Neuronal Apoptosis through Myosin IIA-actin Related .Int J Biol Sci. 2016 Oct 25;12(11):1341-1356.
  81. Wan L, Zhang L, Fan K, Cheng ZX, Sun QC, Wang JJ.Knockdown of Long Noncoding RNA PCAT6 Inhibits Proliferation and Invasion in Lung Cancer Cells.Oncol Res. 2016;24(3):161-70.
  82. Jiao Y, Ma S, Wang Y, Li J, Shan L, Sun J, Chen J .Methacryloxyethyl Cetyl Ammonium Chloride Induces DNA Damage and Apoptosis in Human Dental Pulp Cells via Generation of Oxidative Stress.Int J Biol Sci. 2016 Mar 21;12(5):580-93.
  83. Wang YJ, Liu JZ, Lv P, Dang Y, Gao JY, Wang Y .Long non-coding RNA CCAT2 promotes gastric cancer proliferation and invasion by regulating the E-cadherin and LATS2.Am J Cancer Res. 2016 Nov 1;6(11):2651-2660.
  84. Teng H, Wang P, Xue Y, Liu X, Ma J, Cai H, Xi Z, Li Z, Liu Y .Role of HCP5-miR-139-RUNX1 Feedback Loop in Regulating Malignant Behavior of Gloma Cells. Mol Ther. 2016 Oct;24(10):1806-1822.
  85. Wang XX, Zha YY, Yang B, Chen L, Wang M .Suppression of synaptic plasticity by fullerol in rat hippocampus in vitro.Int J Nanomed. 2016 Sep 28;11:4947-4955.
  86. Gan F, Hu Z, Huang Y, Xue H, Huang D, Qian G, Hu J, Chen X, Wang T, Huang K.Overexpression of pig selenoprotein S blocks OTA-induced promotion of PCV2 replication by inhibiting oxidative stress and p38 phosphorylation in PK15 cells.Oncotarget. 2016 Apr 12;7(15):20469-85.
  87. Chen Z, Tang J, Cai X, Huang Y, Gao Q, Liang L, Tian L, Yang Y, Zheng Y, Hu Y, Tang N .HBx mutations promote hepatoma cell migration through the Wnt/ $\beta$ -catenin.Cancer Sci. 2016 Oct;107(10):1380-1389.
  88. Wang Y, Zhang B, Liu W, Dai Y, Shi Y, Zeng Q, Wang F .Noninvasive bioluminescence imaging of the dynamics of sanguinarine induced apoptosis via activation of reactive oxygen species.Oncotarget. 2016 Apr 19;7(16):22355-67.
  89. Liu P, Ye F, Xie X, Li X, Tang H, Li S, Huang X, Song C, Wei W, Xie X.mir-101-3p is a key regulator of tumor metabolism in triple negative breast cancer targeting AMPK. Oncotarget. 2016 Jun 7;7(23):35188-98.
  90. Pan X, Wang H, Tong D, Wang C, Sun L, Zhao C, Li Y, Zhu L, Wu D.Physcion induces apoptosis in hepatocellular carcinoma by modulating miR-370.Am J Cancer Res. 2016 Dec 1;6(12):2919-2931.
  91. Zhang Y, Lei W, Yan W, Li X, Wang X, Zhao Z, Hui J, Shen Z, Yang J .microRNA-206 is involved in survival of hypoxia preconditioned mesenchymal stem cells through targeting Pim-1 kinase.Stem Cell Res Ther. 2016 Apr 22;7(1):61.
  92. He P, Zhang HX, Sun CY, Chen CY, Jiang HQ .Overexpression of SASH1 Inhibits the Proliferation, Invasion, and EMT in Hepatocarcinoma Cell. Oncol Res. 2016;24(1):25-32.
  93. Zhao Y, Tan K, Zhou Y, Ye Z, Tan WS .A combinatorial variation in surface chemistry and pore size of three-dimensional porous poly( $\epsilon$ -caprolactone) scaffolds modulates the behaviors of mesenchymal stem cells.Mat Sci Eng C-mater.2016 Feb;59:193-202.
  94. Peng YY, He YH, Chen C, Xu T, Li L, Ni MM, Meng XM, Huang C, Li J.NLRC5 regulates cell proliferation, migration and invasion in hepatocellular carcinoma by targeting the Wnt/ $\beta$ -catenin signaling pathway.Cancer Lett. 2016 Jun 28;376(1):10-21.
  95. Wang S, Xie J, Li J, Liu F, Wu X, Wang Z .Cisplatin suppresses the growth and proliferation of breast and cervical cancer cell lines by inhibiting integrin  $\beta$ 5-mediated glycolysis.Am J Cancer Res. 2016 May 1;6(5):1108-17.
  96. Wang Q, Zhou JL, Wang H, Ju Q, Ding Z, Zhou XL, Ge X, Shi QM, Pan C, Zhang JP, Zhang MR, Yu HM, Xu LC.Inhibition effect of cypermethrin mediated by co-regulators SRC-1 and SMRT in interleukin-6-induced androgen receptor activation.Chemosphere. 2016 Sep;158:24-9.
  97. Liu X, Zhou L, Chen X, Liu T, Pan G, Cui W, Li M, Luo ZP, Pei M , Yang H, Gong Y, He F .Culturing on decellularized extracellular matrix enhances antioxidant properties of human umbilical cord-derived mesenchymal stem cells.Mat Sci Eng C-mater. 2016 Apr 1;61:437-48.
  98. Zhang W, Tong D, Liu F, Li D , Li J, Cheng X, Wang Z .RPS7 inhibits colorectal cancer growth via decreasing HIF-1 $\alpha$ -mediated glycolysis.Oncotarget. 2016 Feb 2;7(5):5800-14.
  99. Cui R, Guan Y, Sun C, Chen L, Bao Y, Li G, Qiu B, Meng X, Pang C, Wang Y .A tumor-suppressive microRNA, miR-504, inhibits cell proliferation and promotes apoptosis by targeting FOXP1 in human glioma.Cancer Lett. 2016 Apr 28;374(1):1-11.
  100. Miao L, Shen X, Whiteman M, Xin H, Shen Y, Xin X, Moore PK, Zhu YZ .Hydrogen Sulfide Mitigates Myocardial Infarction via Promotion of Mitochondrial Biogenesis-Dependent M2Polarization of Macrophages.Antioxid Redox Sign. 2016 Aug 10;25(5):268-81.
  101. Chen W, Su H, Xu Y, Bao T, Zheng X .Protective effect of wild raspberry (Rubus hirsutus Thunb) extract against acrylamide-induced oxidative damage is potentiated after simulated gastrointestinal digestion.Food Chem. 2016 Apr 1;196:943-52.
  102. Wang X, Chen X, Yang X, Gao W, He B, Dai W, Zhang H, Wang X, Wang J, Zhang X, Dai Z, Zhang Q.A nanomedicine based combination therapy based on QLPVM peptide functionalized liposomal oxaliplatin/doxorubicin against Luminal A breast cancer.Nanomedicine. 2016 Feb;12(2):387-97.
  103. Sun HM, Mi YS, Yu FD, Han Y, Liu XS, Lu S, Zhang Y, Zhao SL, Ye L, Liu TT, Yang DH, Sun XF, Qin XB, Zhou ZG, Tang HM, Peng ZH .SERPINA4 is a novel independent prognostic indicator and a potential therapeutic target for Am J Cancer Res. 2016 Aug 1;6(8):1636-49.
  104. Yang X, Huo H, Xiu C, Song M, Han Y, Li Y, Zhu Y .Inhibition of osteoblast differentiation by aluminum trichloride exposure is associated with inhibition of BMP-2/Smad pathway component expression.Food Chem Toxicol. 2016 Nov;97:120-126.
  105. Du W, Liang H, Gao X, Li X, Zhang Y, Pan Z, Li C, Wang Y, Liu Y, Yuan W, Ma N, Chu W, Shan H, Lu Y .MicroRNA-328, a Potential Anti-Fibrotic Target in Cardiac Interstitial Fibrosis.Cell Physiol Biochem. 2016;39(3):827-36.
  106. Chen D, Xia D., Pan X, Zu D, Zhou Y, Wu Y, Cai N, Tang Q, Wang C, Yan M, Zhang JJ, Zhou K, Wang Q, Feng Y, Wang X, Xu H, Zhang X., Tian N .Metformin protects against apoptosis and senescence in nucleus pulposus cells and ameliorates disc degeneration in vivo.Cell Death Dis. 2016 Oct 27;7(10):e2441.
  107. Liu Z, Gu H, Gan L, Xu Y, Feng F, Saeed M, Sun C .Reducing Smad3/ATF4 was essential for Sirt1 inhibiting ER stress-induced apoptosis in mice brown adipose tissue.Oncotarget. 2016 Dec 20. doi: 10.18632/oncotarget.14035. [Epub ahead of print]
  108. Wang W, Song XW, Bu XM, Zhang N, Zhao CH .PD-CD2 and NCOR1 as putative tumor suppressors in gastric gastrointestinal stromal tumors.Cell Oncol. 2016 Apr;39(2):129-37.
  109. Li Y, Pan K, Chen L, Ning JL, Li X, Yang T, Terrando N, Gu J , Tao G .Deferoxamine regulates neuroinflammation and iron homeostasis in a mouse model of postoperative cognitive dysfunction.J Neuroinflamm. 2016 Oct 12;13(1):268.
  110. Wang Y, Chen B, Wang Z, Zhang W, Hao K, Chen Y, Li K, Wang T, Xie Y, Huang Z, Tong X .Marsdenia tenacissima extraction (MTE) inhibits the proliferation and induces the apoptosis of human acute T cell leukemia cells through inactivating PI3K/AKT/mTOR signaling pathway via PTEN enhancement.Oncotarget. 2016 Dec 13;7(50):82851-82863.
  111. Ha M, Wei L, Guan X, Li L, Liu C .p53-dependent apoptosis contributes to di-(2-ethylhexyl) phthalate-induced hepatotoxicity. Environ Pollut. 2016 Jan;208(Pt B):416-25.
  112. Lianmei Zhao, Taotao Han, Yanshuang Li, Jiazeng Sun, Shang Zhang, Yanxin Liu, Baogen Shan, Dexian Zheng, Juan Shi .The lncRNA SNHG5/miR-32 axis regulates gastric cancer cell proliferation and migration by targeting KLF4.Faseb. 21 Nov 2016. J
  113. Wei LN, Zhu LW, Tang YJ .Succinate production positively correlates with the affinity of the global transcription.Biotechnol Biofuels. 2016 Dec 8;9:264.
  114. Han Y, Zhao Q, Zhou J, Shi R .miR-429 mediates tumor growth and metastasis in colorectal cancer.Am J Cancer Res. 2017 Feb 1;7(2):218-233. eCollection 2017.
  115. Yan J, Lai CH, Lung SC, Wang WC, Huang CC, Chen GW, Suo G, Choug CT, Lin CH .Carbon black aggregates cause endothelial dysfunction by activating ROCK.J Hazard Mater. 2017 Sep 15;338:66-75.
  116. Cheng L, Liu J, Liu Q, Liu Y, Fan L, Wang F, Yu H, Li Y, Bu L, Li X, Wei W, Wang H, Sun G .Exosomes from Melatonin Treated Hepatocellular Carcinoma Cells Alter the Immunosuppression Status through STAT3 Pathway in Macrophages.Int J Biol Sci. 2017 May 16;13(6):723-734.
  117. Kang Q, Xiang Y, Li D, Liang J, Zhang X, Zhou F, Qiao M, Nie Y, He Y, Cheng J, Dai Y, Li Y .MiR-124-3p attenuates hyperphosphorylation of Tau protein-induced apoptosis via caveolin-1-PI3K/Akt/GSK3 $\beta$  pathway in N2a/APP695we cells.Oncotarget. 2017 Apr 11;8(15):24314-24326.
  118. Danfeng Xu, Di Lian, Jing Wu, Ying Liu, Mingjie Zhu, Jiaming Sun, Dak He, Ling Li .Brain-derived neurotrophic factor reduces inflammation and hippocampal apoptosis in experimental Streptococcus pneumoniae meningitis.Journal of Neuroinflammation. 2017 14:156.
  119. Chen Y, Gao A, Bai L, Wang Y, Wang X, Zhang X, Huang X, Hang R, Tang B, Chu PK .Antibacterial, osteogenic, and angiogenic activities of SrTiO3 nanotubes embedded with Ag2O nanoparticles.Mat Sci Eng C-mater. 2017 Jun 1;75:1049-1058.

120. Li J, Guo Y, Duan L, Hu X, Zhang X, Hu J, Huang L, He R, Hu Z, Luo W, Tan T, Huang R, Liao D, Zhu YS, Luo DX. AKR1B10 promotes breast cancer cell migration and invasion via activation of ERK signaling. *Oncotarget*. 2017 May 16;8(20):33694-33703.
121. Zhang Y, Zhang Q, Zhang M, Yuan M, Wang Z, Zhang J, Zhou X, Zhang Y, Lin F, Na H, Ren S, Zuo Y. DC-SIGNR by influencing the lncRNA HNRNPKP2 upregulates the expression of CXCR4 in gastric cancer liver metastasis. *Mol Cancer*. 2017 Apr 13;16(1):78.
122. Kang H, Yang K, Xiao L, Guo L, Guo C, Yan Y, Qi J, Wang F, Ryffel B, Li C, Deng L. Osteoblast Hypoxia-Inducible Factor-1 $\alpha$  Pathway Activation Restrains Osteoclastogenesis via the Interleukin-33-MicroRNA-34a-Notch1 Pathway. *Front Immunol*. 2017 Oct 16;8:1312.
123. Sitong Cui, Liang Liu, Teng Wan, Lei Jiang, Yan Shi, Liangsheng Luo. MiR-520b inhibits the development of glioma by directly targeting MBD2. *Am J Cancer Res*. 2017; 7(7): 1528-1539.
124. Xiaojing Wang, Tianyuan Xu, Fengbin Gao, Hongchao He, Yu Zhu, Zhoujun Shen. Targeting of CCN2 suppresses tumor progression and improves chemo-sensitivity in urothelial bladder cancer. *Oncotarget*. 2017 Sep 12; 8(39): 66316-66327.
125. Lingyan Yang, Wen-Cheng Wang, Shih-Chun Candice Lung, Zhelin Sun, Chongjun Chen, Jen-Kun Chen, Qiang Zou, Yu-Hsin Lin, Chia-Hua Lin. Polycyclic aromatic hydrocarbons are associated with increased risk of chronic obstructive pulmonary disease during haze events in China. *Science of The Total Environment*. Volume 574, 1 January 2017, Pages 1649-1658.
126. Wang H, Xie Z, Hou T, Li Z, Huang K, Gong J, Zhou W, Tang K, Xu J, Dong S. MiR-125b Regulates the Osteogenic Differentiation of Human Mesenchymal Stem Cells by Targeting BMPR1b. *Cell Physiol Biochem*. 2017;41(2):530-542.
127. Xueyan Liang, Yufang Yang, Zhenguang Huang, Jinling Zhou, Yue'e Li, Xiaobin Zhong. Panax notoginseng saponins mitigate cisplatin induced nephrotoxicity by inducing mitophagy via HIF-1 $\alpha$ . *Oncotarget*. 2017 Nov 28; 8(61): 102989-103003.
128. Feng Y, Wang N, Xu J, Zou J, Liang X, Liu H, Chen Y. Alpha-1-antitrypsin functions as a protective factor in preeclampsia through activating Smad2 and inhibitor of DNA binding 4. *Oncotarget*. 2017 Dec 5;8(68):113002-113012.
129. Yi Zhu, Minjie Wang, Xu Zhao, Lei Zhang, Yigao Wu, Bangqi Wang, Weilie Hu. Rottlerin as a novel chemotherapy agent for adrenocortical carcinoma. *Oncotarget*. 2017 Apr 4; 8(14): 22825-22834.
130. Lei Xie, Sifei Yu, Zhenfei Wang, Kai Yang, Zuochoao Liu, Changwei Li, Yu Liang. Nicotinamide Adenine Dinucleotide Protects against Spinal Cord Ischemia Reperfusion Injury-Induced Apoptosis by Blocking Autophagy. *Oxidative Medicine and Cellular Longevity*. Volume 2017, Article ID 7063874, 10 pages.
131. Geng YD, Zhang C, Lei JL, Yu P, Xia YZ, Zhang H, Yang L, Kong LY. Walsuronoid B induces mitochondrial and lysosomal dysfunction leading to apoptotic rather than autophagic cell death via ROS/p53 signaling pathways in liver cancer. *Biochem Pharmacol*. 2017 Oct 15;142:71-86.
132. Yongmei Yang, Jie Du, Fen Liu, Xiaoyan Wang, Xiaohui Li, Yuanjian Li. Role of caspase-3/E-cadherin in helicobacter pylori-induced apoptosis of gastric epithelial cells. *Oncotarget*. 2017 Aug 29; 8(35): 59204-59216.
133. Xie L, Yu S, Yang K, Li C, Liang Y. Hydrogen Sulfide Inhibits Autophagic Neuronal Cell Death by Reducing Oxidative Stress in Spinal Cord Ischemia Reperfusion Injury. *Oxid Med Cell Longev*. 2017;2017:8640284.
134. Han D, Chen W, Gu X, Shan R, Zou J, Liu G, Shahid M, Gao J, Han B. Cytoprotective effect of chlorogenic acid against hydrogen peroxide-induced oxidative stress in MC3T3-E1 cells through PI3K/Akt-mediated Nrf2/HO-1 signaling pathway. *Oncotarget*. 2017 Feb 28;8(9):14680-14692.
135. Jiang H, Bian F, Zhou H, Wang X, Wang K, Mai K, He G. Nutrient sensing and metabolic changes after methionine deprivation in primary muscle cells of turbot (*Scophthalmus maximus* L.). *J Nutr Biochem*. 2017 Dec;50:74-82.
136. Chen W, Shen X, Hu Y, Xu K, Ran Q, Yu Y, Dai L, Yuan Z, Huang L, Shen T, Cai K. Surface functionalization of titanium implants with chitosan-catechol conjugate for suppression of ROS-induced cells damage and improvement of osteogenesis. *Biomaterials*. 2017 Jan;114:82-96.
137. Liu F, Bai C, Guo Z. The prognostic value of osteopontin in limited-stage small cell lung cancer patients and its mechanism. *Oncotarget*. 2017 Jul 26;8(41):70084-70096.
138. Wang Q, Cheng N, Li X, Pan H, Li C, Ren S, Su C, Cai W, Zhao C, Zhang L, Zhou C. Correlation of long non-coding RNA H19 expression with cisplatin-resistance and clinical outcome in lung adenocarcinoma. *Oncotarget*. 2017 Jan 10;8(2):2558-2567.
139. Zhang Z, Li S, Jiang H, Liu B, Lv Z, Guo C, Zhang H. Effects of selenium on apoptosis and abnormal amino acid metabolism induced by excess fatty acid in isolated rat hepatocytes. *Mol Nutr Food Res*. 2017 Sep;61(9).
140. Huang T, Liu R, Fu X, Yao D, Yang M, Liu Q, Lu WW, Wu C, Guan M. Aging Reduces an ERR $\alpha$ -Directed Mitochondrial Glutaminase Expression Suppressing Glutamine Anaplerosis and Osteogenic Differentiation of Mesenchymal Stem Cells. *Stem Cells*. 2017 Feb;35(2):411-424.
141. Shuo Zhang, Jiali Chang, Chao Lin, Yiran Pan, Kangping Cui, Xiaoyuan Zhang, Peng Liang, Xia Huang. Enhancement of methanogenesis via direct interspecies electron transfer between Geobacteraceae and Methanosaetaceae conducted by granular activated carbon. *Bioresource Technology*. Volume 245, Part A, December 2017, Pages 132-137.
142. Zhan A, Lei B, Wu H, Wen Y, Zheng L, Wang S, Wan X, Wei Z. GGNBP2 Suppresses the Proliferation, Invasion, and Migration of Human Glioma Cells. *Oncol Res*. 2017 May 24;25(5):831-842.
143. Jiang Q, Li Q, Han J, Gou M, Zheng Y, Li B, Xiao R, Wang J. rLj-RGD3 induces apoptosis via the mitochondrial-dependent pathway and inhibits adhesion, migration and invasion of human HeyA8 cells via FAK pathway. *Int J Biol Macromol*. 2017 Mar;96: 652-668.
144. Liu H, Huang X, Yu H, Yang X, Zhang X, Hang R, Tang B. A cyocompatible micro/nano-textured surface with Si-doped titania mesoporous arrays fabricated by a one-step anodization. *Mat Sci Eng C-mater*. 2017 Apr 1;73:120-129.
145. Liu WY, Zhang JW, Yao XQ, Jiang C, He JC, Ni P, Liu JL, Chen QY, Li QR, Zang XJ, Yao L, Liu YZ, Wang ML, Shen PQ, Wang GJ, Zhou F. Shenmai injection enhances the cytotoxicity of chemotherapeutic drugs against colorectal cancers via improving their subcellular distribution. *Acta Pharmacol Sin*. 2017 Feb;38(2):264-276.
146. Hongming Lv, Qinmei Liu, Junfeng Zhou, Guangyun Tan, Xuming Deng, Xinxin Ci. Daphnetin-mediated Nrf2 antioxidant signaling pathways ameliorate tert-butyl hydroperoxide (t-BHP)-induced mitochondrial dysfunction and cell death. *Free Radical Biology and Medicine*. Volume 106, May 2017, Pages 38-52.
147. Yang Yang, Qin He, Hong Wang, Xinyue Hu, Ying Luo, Guojian Liang, Shengnan Kuang, Shaoshan Mai, Jie Ma, Xiaoyan Tian, Qi Chen, Junqing Yang. The protection of meloxicam against chronic aluminum overload-induced liver injury in rats. *Oncotarget*. 2017 Apr 4; 8(14): 23448-23458.
148. Hai-Jing Sun, Yan Lu, Hao-Wei Wang, Hao Zhang, Shuang-Ran Wang, Wen-Yun Xu, Hai-Long Fu, Xue-Ya Yao, Feng Yang, Hong-Bin Yuan. Activation of Endocannabinoid Receptor 2 as a Mechanism of Propofol Pretreatment-Induced Cardioprotection against Ischemia-Reperfusion Injury in Rats. *Oxidative Medicine and Cellular Longevity*. Volume 2017, Article ID 2186383, 18 pages.
149. Zhiguo Chen, Ruijian Zhu, Jiayi Zheng, Chen Chen, Chi Huang, Junjie Ma, Chen Xu, Wei Zhai, Junhua Zheng. Cryptotanshinone inhibits proliferation yet induces apoptosis by suppressing STAT3 signals in renal cell carcinoma. *Oncotarget*. 2017 Jul 25; 8(30): 50023-50033.
150. Juan Li, Chun-Xia Zhang, Yi-Mei Liu, Ke-Li Chen, Gang Chen. A comparative study of anti-aging properties and mechanism: resveratrol and caloric restriction. *Oncotarget*. 2017 Sep 12; 8(39): 65717-65729.
151. Wang Z, Liao K, Zuo W, Liu X, Qiu Z, Gong Z, Liu C, Zeng Q, Qian Y, Jiang L, Bu Y, Hong S, Hu G. Depletion of NFBD1/MDC1 Induces Apoptosis in Nasopharyngeal Carcinoma Cells Through the p53-ROS-Mitochondrial Pathway. *Oncol Res*. 2017 Jan 2;25(1):123-136.
152. Shi S, Zhong D, Xiao Y, Wang B, Wang W, Zhang F, Huang H. Syndecan-1 knockdown inhibits glioma cell proliferation and invasion by deregulating a c-src/FAK-associated signaling pathway. *Oncotarget*. 2017 Jun 20;8(25):40922-40934.
153. Zhi-Zhen Pan, Lian Xu, Bo Liu, Jing Zhang, Zheng Chen, Qing-Xi Chen, Yu-Jing Zhu. PxAPN5 serves as a functional receptor of Cry2Ab in *Plutella xylostella* (L.) and its binding domain analysis. *International Journal of Biological Macromolecules*. Volume 105, Part 1, December 2017, Pages 516-521.
154. Dengfeng Li, Hongming Song, Tianqi Wu, Dan Xie, Jiashu Hu, Junyong Zhao, Lin Fang. MiR-138-5p targeting LIMK1 suppresses breast cancer cell proliferation and motility. *J Roy Soc Med*. 2017, 7, 52030-52038.
155. Saisai Wang, Fei Wang, Qiang Zhang, Yiyun Cheng. A core-shell structured polyplex for efficient and non-toxic gene delivery. *Journal of Materials Chemistry B*. 2017, 5.
156. Lu-Lu Wang, Lan-Bo Zhou, Jin Shu, Nan-Nan Li, Hui-Wen Zhang, Rui Jin, Li-Li Zhuang, Guo-Ping Zhou. Up-regulation of IRF-3 expression through GATA-1 acetylation by histone deacetylase inhibitor in lung adenocarcinoma A549 cells. *Oncotarget*. 2017 Sep 29; 8(44): 75943-75951.
157. Feng F, Ren Q, Wu S, Saeed M, Sun C. Hoxa5 increases mitochondrial apoptosis by inhibiting Akt/mTORC1/S6K1 pathway in mice white adipocytes. *Oncotarget*. 2017 Aug 24;8(56):95332-95345.
158. Wang M, Li Y, Ni C, Song G. Honokiol Attenuates Oligomeric Amyloid  $\beta$ 1-42-Induced Alzheimer's Disease in Mice Through Attenuating Mitochondrial Apoptosis and Inhibiting the Nuclear Factor Kappa-B Signaling Pathway. *Cell Physiol Biochem*. 2017;43(1):69-81.
159. Nan Wang, Wei Liu, Tao Tan, Chao-Qun Dong, Duan-Yang Lin, Jun Zhao, Chang Yu, Xiao-Ji Luo. Notch signaling negatively regulates BMP9-induced osteogenic differentiation of mesenchymal progenitor cells by inhibiting JunB expression. *Oncotarget*. 2017 Dec 12; 8(65): 109661-109674.
160. Jiang Q, Li Q, Han J, Gou M, Zheng Y, Li B, Xiao R, Wang J. rLj-RGD3 induces apoptosis via the mitochondrial-dependent pathway and inhibits adhesion, migration and invasion of human HeyA8 cells via FAK pathway. *Int J Biol Macromol*. 2017 Mar;96: 652-668.
161. Biying Liu, Haili Zhang, Xiao Tan, Daqian Yang, Zhanjun Lv, Huijie Jiang, Jingjing Lu, Ruiqi Baiyun, Zhigang Zhang. GSPE reduces lead-induced oxidative stress by activating the Nrf2 pathway and suppressing miR153 and GSK-3 $\beta$  in rat kidney. *Oncotarget*. 2017 Jun 27; 8(26): 42226-42237.
162. Yun Xiao, Xiaoyu Wang, Ben Wang, Xueyao Liu, Xurong Xu, Ruikang Tang. Long-term Effect of Biomineralized Insulin Nanoparticles on Type 2 Diabetes Treatment. *Theranostics*. 2017; 7(17): 4301-4312.
163. Zhu WJ, Yang SD, Qu CX, Zhu QL, Chen WL, Li F, Yuan ZQ, Liu Y, You BG, Zhang XN. Low-density lipoprotein-coupled micelles with reduction and pH dual sensitivity for intelligent co-delivery of paclitaxel and siRNA to breast tumor. *Int J Nanomed*. 2017 Apr 26;12:3375-3393.
164. Sun HJ, Chen D, Wang PY, Wan MY, Zhang CX, Zhang ZX, Lin W, Zhang

- F.Salusin- $\beta$  Is Involved in Diabetes Mellitus-Induced Endothelial Dysfunction via Degradation of Peroxisome Proliferator-Activated Receptor Gamma.Oxid Med Cell Longev. 2017;2017:6905217.
165. Zhang D, Wang F, Pang Y, Ke XX, Zhu S, Zhao E, Zhang K, Chen L, Cui H.Down-regulation of CHERP inhibits neuroblastoma cell proliferation and induces apoptosis through ER stress induction.Oncotarget. 2017 Sep 15;8(46):80956-80970.
166. Zhang L, Xiong W, Li N, Liu H, He H, Du Y, Zhang Z, Liu Y.Estrogen stabilizes hypoxia-inducible factor 1 $\alpha$  through G protein-coupled estrogen receptor 1 in eutopic endometrium of endometriosis.Fertil Steril. 2017 Feb;107(2):439-447.
167. Zhao L, Liu S, Xu J, Li W, Duan G, Wang H, Yang H, Yang Z, Zhou R.A new molecular mechanism underlying the EGCG-mediated autophagic modulation of AFP in HepG2 cells.Cell Death Dis. 2017 Nov 2;8(11):e3160.
168. Pan CW, Yang SX, Pan ZZ, Zheng B, Wang JZ, Lu GR, Xue ZX, Xu CL.Andrographolide ameliorates d-galactosamine/lipopolysaccharide-induced acute liver injury by activating Nrf2 signaling pathway.Oncotarget. 2017 Jun 20;8(25):41202-41210.
169. Liuyan Wang, Hongchao Jiao, Jingpeng Zhao, Xiaojuan Wang, Shuhong Sun, Hai Lin.Allicin Alleviates Reticuloendotheliosis Virus-Induced Immunosuppression via ERK/Mitogen-Activated Protein Kinase Pathway in Specific Pathogen-Free Chickens.Front Immunol. 2017; 8: 1856.
170. Shengwei Liu, Shuang Chen, Weiguang Yuan, Hongyan Wang, Kewang Chen, Dianjun Li, Dalin Li.PD-1/PD-L1 interaction up-regulates MDR1/P-gp expression in breast cancer cells via PI3K/AKT and MAPK/ERK pathways.Oncotarget. 2017 Nov 21; 8(59): 99901-99912.
171. Daoliang Xu, Haiming Jin, Jianxia Wen, Jiaxiang Chen, Deheng Chen, Ningyu Cai, Yongli Wang, Jianle Wang, Yu Chen, Xiaolei Zhang, Xiangyang Wang.Hydrogen sulfide protects against endoplasmic reticulum stress and mitochondrial injury in nucleus pulposus cells and ameliorates intervertebral disc degeneration.Pharmacological Research. Volume 117, March 2017, Pages 357-369.
172. Liu Y, Shi F, Bo L, Zhi W, Weng J, Qu S.A novel alginate-encapsulated system to study biological response to critical-sized wear particles of UHMWPE loaded with alendronate sodium.MAT SCI ENG C-MATER. 2017 Oct 1;79:679-686.
173. Dunwei Guo, Chaoyi Wang, Qiang Wang, Zhongpeng Qiao, Hua Tang.Pantoprazole blocks the JAK2/STAT3 pathway to alleviate skeletal muscle wasting in cancer cachexia by inhibiting inflammatory response.Oncotarget. 2017 Jun 13; 8(24): 39640-39648.
174. Chen S, Sun YY, Zhang ZX, Li YH, Xu ZM, Fu WN.Transcriptional suppression of microRNA-27a contributes to laryngeal cancer differentiation via GSK-3 $\beta$ -involved Wnt/ $\beta$ -catenin pathway.Oncotarget. 2017 Feb 28;8(9):14708-14718.
175. Ke Liu, Yi Hou, Yunke Liu, Jia Zheng.LncRNA SNHG15 contributes to proliferation, invasion and autophagy in osteosarcoma cells by sponging miR-141.Journal of Biomedical Science. 2017 24:46.
176. Hao Y, Zheng C, Wang L, Zhang J, Niu X, Song Q, Feng Q, Zhao H, Li L, Zhang H, Zhang Z, Zhang Y.Tumor acidity-activatable manganese phosphate nanoplatform for amplification of photodynamic cancer therapy and magnetic resonance imaging.Acta Biomater. 2017 Oct 15;62:293-305.
177. Zhi-qiang Yuan, Wei-liang Chen, Ben-gang You, Yang Liu, Shu-di Yang, Ji-zhao Li, Wen-jing Zhu, Xiao-feng Zhou, Chun Liu, Xue-nong Zhang.Multifunctional nanoparticles co-delivering EZH2 siRNA and etoposide for synergistic therapy of orthotopic non-small-cell lung tumor.Journal of Controlled Release. Volume 268, 28 December 2017, Pages 198-211.
178. Gong G, An F, Wang Y, Bian M, Yu LJ, Wei C.miR-15b represses BACE1 expression in sporadic Alzheimer's disease.Oncotarget. 2017 Sep 21;8(53):91551-91557.
179. Wang Y, Wang W, Xu H, Sun Y, Sun J, Jiang Y, Yao J, Tian Y.Non-Lethal Sonodynamic Therapy Inhibits Atherosclerotic Plaque Progression in ApoE-/- Mice and Attenuates ox-LDL-mediated Macrophage Impairment by Inducing Heme Oxygenase-1.Cell Physiol Biochem. 2017, Vol.41, No. 6
180. Li J, Xu R, Lu X, He J, Jin S.A simple reduction-sensitive micelles co-delivery of paclitaxel and dasatinib to overcome tumor multidrug resistance.Int J Nanomed. 2017 Nov 1;12:8043-8056.
181. Gao Q, Wang K, Chen K, Liang L, Zheng Y, Zhang Y, Xiang J, Tang N.HBx protein-mediated ATOH1 downregulation suppresses ARID2 expression and promotes hepatocellular carcinoma.Cancer Sci. 2017 Jul;108(7):1328-1337.
182. Chen WP, Hu ZN, Jin LB, Wu LD.Licochalcone A Inhibits MMPs and ADAMTs via the NF- $\kappa$ B and Wnt/ $\beta$ -Catenin Signaling Pathways in Rat Chondrocytes.Cell Physiol Biochem. 2017;43(3):937-944.
183. Zhu Y, Wang Y, Yao R, Hao T, Cao J, Huang H, Wang L, Wu Y .Enhanced neuroinflammation mediated by DNA methylation of the glucocorticoid receptor triggers cognitive dysfunction after sevoflurane anesthesia in adult rats subjected to maternal separation during the neonatal period.J Neuroinflamm. 2017 Jan 7;14(1):6.
184. Bi D, Zhou R, Cai N, Lai Q, Han Q, Peng Y, Jiang Z, Tang Z, Lu J, Bao W, Xu H, Xu X.Alginate enhances Toll-like receptor 4-mediated phagocytosis by murine RAW264.7 macrophages.Int J Biol Macromol. 2017 Dec;105(Pt 2):1446-1454.
185. Yang Y, Jin G, Liu H, Liu K, Zhao J, Chen X, Wang D, Bai R, Li X, Jang Y, Lu J, Xing Y, Dong Z.Metformin inhibits esophageal squamous cell carcinoma-induced angiogenesis by suppressing JAK/STAT3 signaling pathway.Oncotarget. 2017 Aug 18;8(43):74673-74687.
186. Fan Y, Shi C, Li T, Kuang T .microRNA-454 shows anti-angiogenic and anti-metastatic activity in pancreatic ductal adenocarcinoma by targeting LRP6.Am J Cancer Res. 2017 Jan 1;7(1):139-147.
187. Gao P, Qiao X, Sun H, Huang Y, Lin J, Li L, Wang X, Li C.Activated spleen tyrosine kinase promotes malignant progression of oral squamous cell carcinoma via mTOR/S6 signaling pathway in an ERK1/2-independent manner.Oncotarget. 2017 Aug 3;8(48):83900-83912.
188. Han D, Li X, Li S, Su T, Fan L, Fan WS, Qiao HY, Chen JW, Fan MM, Li XJ, Wang YB, Ma S, Qiu Y, Tian ZH, Cao F.Reduced silent information regulator 1 signaling exacerbates sepsis-induced myocardial injury and mitigates the protective effect of a liver X receptor agonist.Free Radical Bio Med. 2017 Dec;113:291-303.
189. Lixia Mao, Lunguo Xia, Jiang Chang, Jiaqiang Liu, Lingyong Jiang, Chengtie Wu, Bing Fang.The synergistic effects of Sr $^{2+}$  and Si $^{4+}$  bioactive ions on osteogenesis, osteoclastogenesis and angiogenesis for osteoporotic bone regeneration.. Volume 61, 1 October 2017, Pages 217-232.
190. Liu L, Li N, Zhang Q, Zhou J, Lin L, He X.Inhibition of ERK1/2 Signaling Impairs the Promoting Effects of TGF- $\beta$ 1 on Hepatocellular Carcinoma Cell Invasion and Epithelial-Mesenchymal Transition.Oncol Res. 2017 Nov 2;25(9):1607-1616.
191. Zou J, Zhang Y, Sun J, Wang X, Tu H, Geng S, Liu R, Chen Y, Bi Z.Deoxyelephantopin Induces Reactive Oxygen Species-Mediated Apoptosis and Autophagy in Human Osteosarcoma Cells.Cell Physiol Biochem. 2017;42(5):1812-1821.
192. Leiming Zhang, Maojing Zhu, Minmin Li, Yuan Du, Sijin Duan, Yanan Huang, Yongying Lu, Jianqiao Zhang, Tian Wang, Fenghua Fu.Ginsenoside Rg1 attenuates adjuvant-induced arthritis in rats via modulation of PPAR- $\gamma$ /NF- $\kappa$ B signal pathway.Oncotarget. 2017 Aug 15; 8(33): 55384-55393.
193. Liu C, Wu H, Li Y, Shen L, Yu R, Yin H, Sun T, Sun C, Zhou Y, Du Z.SALL4 suppresses PTEN expression to promote glioma cell proliferation via PI3K/AKT signaling pathway.Neurop-Oncology. 2017 Nov;15(2):263-272.
194. Liu W, Zhang B, Chen G, Wu W, Zhou L, Shi Y, Zeng Q, Li Y, Sun Y, Deng X, Wang F.Targeting miR-21 with Sophocarpine Inhibits Tumor Progression and Reverses Epithelial-Mesenchymal Transition in Head and Neck Cancer.Mol Ther. 2017 Sep 6;25(9):2129-2139.
195. Ling F, Tang Y, Li M, Li QS, Li X, Yang L, Zhao W, Jin CC, Zeng Z, Liu C, Wu CF, Chen WW, Lin X, Wang YL, Threadgill MD.Mono-ADP-ribosylation of histone 3 at arginine-117 promotes proliferation through its interaction with P300.Oncotarget. 2017 Aug 18;8(42):72773-72787.
196. Liu L, Cai X, Liu E, Tian X, Tian C.MicroRNA-18a promotes proliferation and metastasis in hepatocellular carcinoma via targeting KLF4.Oncotarget. 2017 Jul 17;8(40):68263-68269.
197. Wang T, Hou J, Su C, Zhao L, Shi Y .Hyaluronic acid-coated chitosan nanoparticles induce ROS-mediated tumor cell apoptosis and enhance antitumor efficiency by targeted drug delivery via CD44.J Nanobiotechnol.2017 Jan 10;15(1):7.
198. Zhang L, Xu Y, Sun J, Chen W, Zhao L, Ma C, Wang Q, Sun J, Huang B, Zhang Y, Li X, Qu X.M2-like tumor-associated macrophages drive vasculogenic mimicry through amplification of IL-6 expression in glioma cells.Oncotarget. 2017 Jan 3;8(1):819-832.
199. Bin Feng, Meng R, Bin Huang, Bi Y, Shen S, Zhu D.Silymarin protects against renal injury through normalization of lipid metabolism and mitochondrial biogenesis in high fat-fed mice.Free Radical Bio Med. 2017 Sep;110:240-249.
200. Li D, Wang H, Song H, Xu H, Zhao B, Wu C, Hu J, Wu T, Xie D, Zhao J, Shen Q, Fang L.The microRNAs miR-200b-3p and miR-429-5p target the LIMK1/CFL1 pathway to inhibit growth and motility of breast cancer cells.Oncotarget. 2017 Jul 12;8(49):85276-85289.
201. He X, Wu C, Cui Y, Zhu H, Gao Z, Li B, Hua J, Zhao B.The aldehyde group of gossypol induces mitochondrial apoptosis via ROS-SIRT1-p53-PUMA pathway in male germline stem cell.Oncotarget. 2017 Oct 24;8(59):100128-100140.
202. Zuo Z, Qi F, Yang J, Wang X, Wu Y, Yuan Q, Zou J, Guo K, Yao ZB.Immunization with *Bacillus Calmette-Guérin* (BCG) alleviates neuroinflammation and cognitive deficits in APP/PS1 mice via the recruitment of inflammation-resolving monocytes to the brain.Neurobiol Dis. 2017 May;101:27-39.
203. Yan J, Lai CH, Lung SC, Chen C, Wang WC, Huang PI, Lin CH.Industrial PM2.5 cause pulmonary adverse effect through RhoA/ROCK pathway.Sci Total Environ. 2017 Dec 1;599-600:1658-1666.
204. He HQ, Wu YX, Nie YJ, Wang J, Ge M, Qian F.LYRM03, an ubenimex derivative, attenuates LPS-induced acute lung injury in mice by suppressing the TLR4 signaling pathway.Acta Pharmacol Sin. 2017 Mar;38(3):342-350.
205. Chen X, Xu H, Wu N, Liu X, Qiao G, Su S, Tian Y, Yuan R, Li C, Liu X, Lin X.Interaction between granulin A and enolase 1 attenuates the migration and invasion of human hepatoma cells.Oncotarget. 2017 May 2;8(18):30305-30316.
206. Jiang W, Huang W, Chen Y, Zou M, Peng D, Chen D.HIV-1 Transactivator Protein Induces ZO-1 and Nprilysin Dysfunction in Brain Endothelial Cells via the Ras Signaling Pathway.Oxid Med Cell Longev. 2017;2017:3160360.
207. Wang Y, Zhou Q, Wu B, Zhou H, Zhang X, Jiang W, Wang L, Wang A.Propofol induces excessive vasodilation of aortic rings by inhibiting protein kinase C $\beta$ 2 and  $\theta$  in spontaneously hypertensive rats.Brit J Pharmacol. 2017 Jul;174(13):1984-2000.
208. Xu X, Li R, Zhou Y, Zou Q, Ding Q, Wang J, Jin W, Hua G, Gao J.Dysregulated systemic lymphocytes affect the balance of osteogenic/adipogenic differentiation of bone mesenchymal stem cells after local irradiation.Stem Cell Res Ther. 2017 Mar 20;8(1):71.
209. Wu X, Liu D, Gao X, Xie F, Tao D, Xiao X, Wang L, Jiang G, Zeng F.Inhibition of BRD4 Suppresses Cell Proliferation and Induces Apoptosis in Renal Cell Carcinoma.Cell Physiol Biochem. 2017;41(5):1947-1956.
210. Yang F, Yang L, Li Y, Yan G, Feng C, Liu T, Gong R, Yuan Y, Wang N, Idiatullina

- E, Bikkuzin T, Pavlov V, Li Y, Dong C, Wang D, Cao Y, Han Z, Zhang L, Huang Q, Ding F, Bi Z, Cai B.Melatonin protects bone marrow mesenchymal stem cells against iron overload-induced aberrant differentiation and senescence.J Pineal Res. 2017 Oct;63(3).
211. Deng Z, Jin J, Wang Z, Wang Y, Gao Q, Zhao J.The metal nanoparticle-induced inflammatory response is regulated by SIRT1 through NF- $\kappa$ B deacetylation in aseptic loosening.Int J Nanomed. 2017 May 10;12:3617-3636.
212. Wang T, Hou J, Su C, Zhao L, Shi Y.Hyaluronic acid-coated chitosan nanoparticles induce ROS-mediated tumor cell apoptosis and enhance antitumor efficiency by targeted drug delivery via CD44.J Nanobiotechnol. 2017 Jan 10;15(1):7.
213. Hu Y, Deng C, Zhang H, Zhang J, Peng B, Hu C.Long non-coding RNA XIST promotes cell growth and metastasis through regulating miR-139-5p mediated Wnt/ $\beta$ -catenin signaling pathway in bladder cancer.Oncotarget. 2017 Oct 10;8(55):94554-94568.
214. Du J, Yang P, Kong F, Liu H.Aberrant expression of translationally controlled tumor protein (TCTP) can lead to radiotherapy susceptibility and chemosensitivity in lung cancer cells.Oncotarget. 2017 Oct 10;8(60):101922-101935.
215. Liu WY, Zhang JW, Yao XQ, Jiang C, He JC, Ni P, Liu JL, Chen QY, Li QR, Zang XJ, Yao L, Liu YZ, Wang ML, Shen PQ, Wang GJ, Zhou F.Shenmai injection enhances the cytotoxicity of chemotherapeutic drugs against colorectal cancers via improving their subcellular distribution.Acta Pharmacol Sin. 2017 Feb;38(2):264-276.
216. Gao ZQ, Wang JF, Chen DH, Ma XS, Wu Y, Tang Z, Dang XW.Long non-coding RNA GAS5 suppresses pancreatic cancer metastasis through modulating miR-32-5p/PTEN axis.Cell Biosci. 2017 Dec 4;7:66.
217. Liu Q, Yu Z, Yuan S, Xie W, Li C, Hu Z, Xiang Y, Wu N, Wu L, Bai L, Li Y.Circulating exosomal microRNAs as prognostic biomarkers for non-small-cell lung cancer.Oncotarget. 2017 Feb 21;8(8):13048-13058.
218. Zhang J, Su L, Ye Q, Zhang S, Kung H, Jiang F, Jiang G, Miao J, Zhao B.Discovery of a novel Nrf2 inhibitor that induces apoptosis of human acute myeloid leukemia cells.Oncotarget. 2017 Jan 31;8(5):7625-7636.
219. Fu Y, Wu P, Pan Y, Sun X, Yang H, Difiglia M, Lu B.A toxic mutant huntingtin species is resistant to selective autophagy.Nat Chem Biol. 2017 Nov;13(11):1152-1154.
220. Liu S, Fei W, Shi Q, Li Q, Kuang Y, Wang C, He C, Hu X.CHAC2, downregulated in gastric and colorectal cancers, acted as a tumor suppressor inducing apoptosis and autophagy through unfolded protein response.Cell Death Dis. 2017 Aug 24;8(8):e3009.
221. Xu X, Zhu Q, Zhang R, Wang Y, Niu F, Wang W, Sun D, Wang A.ITRAQ-Based Proteomics Analysis of Acute Lung Injury Induced by Oleic Acid in Mice.Cell Physiol Biochem. 2017;44(5):1949-1964.
222. Yong Fu, Junting Ma, Xiafei Shi, Xiang-Yun Song, Yaping Yang, Shuke Xiao, Jiahuang Li, Wei-Jin Gu, Zhen Huang, Junfeng Zhang, Jiangning Chen.A novel pyrazole-containing indolizine derivative suppresses NF- $\kappa$ B activation and protects against TNBS-induced colitis via a PPAR- $\gamma$ -dependent pathway.Biochemical Pharmacology. Volume 135, 1 July 2017, Pages 126-138.
223. Liu Z, Gu H, Gan L, Xu Y, Feng F, Saeed M, Sun C.Reducing Smad3/ATF4 was essential for Sirt1 inhibiting ER stress-induced apoptosis in mice brown adipose tissue.Oncotarget. 2017 Feb 7;8(6):9267-9279.
224. Huang WQ, Wen JL, Lin RQ, Wei P, Huang F.Effects of mTOR/NF- $\kappa$ B signaling pathway and high thoracic epidural anesthesia on myocardial ischemia-reperfusion injury via autophagy in rats.J Cell Physiol. 2017 Dec 5.
225. Xiao Q, Huang L, Zhang Z, Chen X, Luo J, Zhang Z, Chen S, Shu Y, Han Z, Cao K.Overexpression of miR-140 Inhibits Proliferation of Osteosarcoma Cells via Suppression of Histone Deacetylase 4.Oncol Res. 2017 Jan 26;25(2):267-275.
226. Zhenjiang Liu, Lu Gan, Yatao Xu, Dan Luo, Qian Ren, Song Wu, Chao Sun.Melatonin alleviates inflammasome - induced pyroptosis through inhibiting NF -  $\kappa$ B/GSDMD signal in mice adipose tissue.Journal Of Pineal Research. 11 April 2017.
227. Du L, Chen X, Duan Z, Liu C, Zeng R, Chen Q, Li M.MiR-146a negatively regulates dectin-1-induced inflammatory responses.Oncotarget. 2017 Jun 6;8(23):37355-37366.
228. Li W, Zheng M, Wu S, Gao S, Yang M, Li Z, Min Q, Sun W, Chen L, Xiang G, Li H.Benserazide, a dopadecarboxylase inhibitor, suppresses tumor growth by targeting hexokinase 2.J Exp Clin Canc Res. 2017 Apr 20;36(1):58.
229. Yanhui Lou, Huanhuan Jiang, Zhumei Cui, Lingzhi Wang, Xiangyu Wang, Tian Tian.Linc-ROR induces epithelial-to-mesenchymal transition in ovarian cancer by increasing Wnt/ $\beta$ -catenin signaling.Oncotarget. 2017 Sep 19; 8(41): 69983-69994.
230. Qin X, Yu S, Xu X, Shen B, Feng J.Comparative analysis of microRNA expression profiles between A549, A549/DDP and their respective exosomes.Oncotarget. 2017 Jun 27;8(26):42125-42135.
231. Sun Y, Zong L, Gao Z, Zhu S, Tong J, Cao Y.Mitochondrial DNA damage and oxidative damage in HL-60 cells exposed to 900MHz radiofrequency fields.Mutat Res-rev Mutat. 2017 Mar;797-799:7-14.
232. Deng H, Kuang P, Cui H, Luo Q, Liu H, Lu Y, Fang J, Zuo Z, Deng J, Li Y, Wang X, Zhao L.Sodium fluoride induces apoptosis in mouse splenocytes by activating ROS-dependent NF- $\kappa$ B signOncotarget. 2017 Dec 1;8(70):114428-114441.
233. He LF, Xu HW, Chen M, Xian ZR, Wen XF, Chen MN, Du CW, Huang WH, Wu JD, Zhang GJ.Activated-PAK4 predicts worse prognosis in breast cancer and promotes tumorigenesis through activation of PI3K/AKT signaling.Oncotarget. 2017 Mar 14;8(11):17573-17585.
234. Fan Y, Shi C, Li T, Kuang T.microRNA-454 shows anti-angiogenic and anti-metastatic activity in pancreatic ductal adenocarcinoma by targeting LRP6.. 2017 Jan 1;7(1):139-147. eCollection 2017.
235. Yu Zhang, Kaiqiang Li, Youmin Ying, Bingyu Chen, Ke Hao, Boxu Chen, Yu Zheng, Jianxin Lyu, Xiangming Tong, Xiaopan Chen, Ying Wang, Zhajun Zhan, Wei Zhang, Zhen Wang.C21 steroid-enriched fraction refined from Marsdenia tenacissima inhibits hepatocellular carcinoma through the coordination of Hippo-Yap and PTEN-PI3K/AKT signaling pathways.Oncotarget. 2017 Dec 15; 8(66): 110576-110591.
236. Zhang D, Lu C, Yu Z, Wang X, Yan L, Zhang J, Li H, Wang J, Wen A.Echinacoside Alleviates UVB Irradiation-Mediated Skin Damage via Inhibition of Oxidative Stress, DNA Damage, and Apoptosis.Oxid Med Cell Longev. 2017;2017:6851464.
237. Dai F, Xuan Y, Jin JJ, Yu S, Long ZW, Cai H, Liu XW, Zhou Y, Wang YN, Chen Z, Huang H.CtBP2 overexpression promotes tumor cell proliferation and invasion in gastric cancer and is associated with poor prognosis.Oncotarget. 2017 Apr 25;8(17):28736-28749.
238. Xiong J, Liu Y, Luo S, Jiang L, Zeng Y, Chen Z, Shi X, Lv B, Tang W.High expression of the long non-coding RNA HEIRCC promotes Renal Cell Carcinoma metastasis by inducing epithelial-mesenchymal transition.Oncotarget. 2017 Jan 24;8(4):6555-6563.
239. Luan W, Li R, Liu L, Ni X, Shi Y, Xia Y, Wang J, Lu F, Xu B.Long non-coding RNA HOTAIR acts as a competing endogenous RNA to promote malignant melanoma progression by sponging miR-152-3p.Oncotarget. 2017 Aug 3;8(49):85401-85414.
240. Li J, Chen L, Xiong Y, Zheng X, Xie Q, Zhou Q, Shi L, Wu C, Jiang J, Wang H.Knockdown of PD-L1 in Human Gastric Cancer Cells Inhibits Tumor Progression and Improves the Cytotoxic Sensitivity to CIK Therapy.Cell Physiol Biochem. 2017;41(3):907-920.
241. Lv H, Liu Q, Wen Z, Feng H, Deng X, Ci X.Xanthohumol ameliorates lipopolysaccharide (LPS)-induced acute lung injury via induction of AMPK/GSK3 $\beta$ -Nrf2 signal axis.Redox Biol. 2017 Aug;12:311-324.
242. Qian L, Zhao Y, Guo L, Li S, Wu X.Activating transcription factor 3 (ATF3) protects against lipopolysaccharide-induced acute lung injury via inhibiting the expression of TL1A.J Cell Physiol. 2017 Dec;232(12):3727-3734.
243. Luo Q, Cui H, Deng H, Kuang P, Liu H, Lu Y, Fang J, Zuo Z, Deng J, Li Y, Wang X, Zhao L.Sodium fluoride induces renal inflammatory responses by activating NF- $\kappa$ B signaling pathway and reducing anti-inflammatory cytokine expression in mice.Oncotarget. 2017 Jul 5;8(46):80192-80207.
244. Wu XL, Yang ZW, He L, Dong PD, Hou MX, Meng XK, Zhao HP, Wang ZY, Wang F, Baoluri, WurenqimugeRRS1 silencing suppresses colorectal cancer cell proliferation and tumorigenesis by inhibiting G2/M progression and angiogenesis.Oncotarget. 2017 Sep 15;8(47):82968-82980.
245. Zhibo Li, Zhongyu Jiang, Lei Zhao, Xianrui Yang, Jin Zhang, Xianjing Song, Bin Liu, Jianxun Ding.PEGylated stereocomplex polyalactide coating of stent for upregulated biocompatibility and drug storage.Mat Sci Eng C-mater. 1 December 2017, Pages 443-451.
246. Ma J, Hu X, Li J, Wu D, Lan Q, Wang Q, Tian S, Dong W.Enhancing conventional chemotherapy drug cisplatin-induced anti-tumor effects on human gastric cancer cells both in vitro and in vivo by Thymoquinone targeting PTEN gene.Oncotarget. 2017 Sep 8;8(49):85926-85939.
247. Gan F, Zhou Y, Hou L, Qian G, Chen X, Huang K.Ochratoxin A induces nephrotoxicity and immunotoxicity through different MAPK signaling pathways in PK15 cells and porcine primary splenocytes.Chemosphere. 2017 Sep;182:630-637.
248. Wang K, Xu Y, Yang W, Zhang Y.Insufficient hypothalamic angiotensin-converting enzyme 2 is associated with hypertension in SHR rats.Oncotarget. 2017 Mar 21;8(12):20244-20251.
249. Xianli Ma, Shengjin Qi, Zhenying Duan, Hongzhan Liao, Baohua Yang, Wenbo Wang, Jie Tan, Qinghua Li, Xuewei Xia.Long non - coding RNA LOC554202 modulates chordoma cell proliferation and invasion by recruiting EZH2 and regulating miR - 31 expression.Cell Proliferation. 30 September 2017.
250. Lu Li, Li Wang, Kevin M Prise, KN Yu, Guodong Chen, Lianyuan Chen, Yide Mei, Wei Han.Akt/mTOR mediated induction of bystander effect signaling in a nucleus independent manner in irradiated human lung adenocarcinoma epithelial cells.Oncotarget. 2017 Mar 14; 8(11): 18010-18020.
251. Zhu W, Liang Q, Yang X, Yu Y, Shen X, Sun G.Combination of sorafenib and Valproic acid synergistically induces cell apoptosis and inhibitsAm J Cancer Res. 2017 Dec 1;7(12):2503-2514. eCollection 2017.
252. Guan YD, Jiang SL, Yu P, Wen M, Zhang Y, Xiao SS, Xu XJ, Cheng Y.Suppression of eEF-2K-mediated autophagy enhances the cytotoxicity of raddeanin A against human breast cancer cells in vitro.Acta Pharmacol Sin. 2017 Dec 14.
253. Minlan Yang, Yanru Li, Xiangfeng Shen, Yang Ruan, Yan Lu, Xiangshu Jin, Peiyi Song, Yantong Guo, Xiaoli Zhang, Huinan Qu, Yijia Shao, Chengshi Quan.CLDN6 promotes chemoresistance through GSTP1 in human breast cancer.Journal of Experimental & Clinical Cancer Research. 7 November 2017.
254. Wei R, Yang Q, Han B, Li Y, Yao K, Yang X, Chen Z, Yang S, Zhou J, Li M, Yu H, Yu M, Cui Q.microRNA-375 inhibits colorectal cancer cells proliferation by downregulating JAK2/STAT3 and MAP3K8/ERK signaling pathways.Oncotarget. 2017 Mar 7;8(10):16633-16641.
255. Wang G, Pan J, Zhang L, Wei Y, Wang C.Long non-coding RNA CRNDE sponges miR-384 to promote proliferation and metastasis of pancreatic cancer cells through upregulating IRS1.Cell Proliferat. 2017 Dec;50(6).
256. Liang Liu, Sitong Cui, Rui Zhang, Yan Shi, Liangsheng Luo.MiR-421 inhibits the

- malignant phenotype in glioma by directly targeting MEF2D. *Am J Cancer Res.* 2017; 7(4): 857–868.
257. Wen X, Xiao L, Zhong Z, Wang L, Li Z, Pan X, Liu Z. Astaxanthin acts via LRP-1 to inhibit inflammation and reverse lipopolysaccharide-induced M1/M2 polarization of microglial cells. *Oncotarget.* 2017 Sep 3;8(41):69370-69385.
  258. Yang W, Huang J, Xiao B, Liu Y, Zhu Y, Wang F, Sun S. Taurine Protects Mouse Spermatocytes from Ionizing Radiation-Induced Damage Through Activation Cell Physiol Biochem. 2017;44(4):1629-1639.
  259. Chen L, Xiong Y, Li J, Zheng X, Zhou Q, Turner A, Wu C, Lu B, Jiang J. PD-L1 Expression Promotes Epithelial to Mesenchymal Transition in Human Esophageal Cancer. *Cell Physiol Biochem.* 2017;42(6):2267-2280.
  260. Hou L, Meng M, Chen Y, Wang C. A water-soluble polysaccharide from Grifola frondosa induced macrophages activation via TLR4-MyD88-IKK $\beta$ -NF- $\kappa$ B p65 pathways. *Oncotarget.* 2017 Sep 23;8(49):86604-86614.
  261. Cao Z, Fang Y, Lu Y, Tan D, Du C, Li Y, Ma Q, Yu J, Chen M, Zhou C, Pei L, Zhang L, Ran H, He Melatonin alleviates cadmium-induced liver injury by inhibiting the TXNIP-NLRP3 inflammasome. *J Pineal Res.* 2017 Apr;62(3).
  262. Wang Y, Wang D, Xie G, Yin Y, Zhao E, Tao K, Li R. MicroRNA-152 regulates immune response via targeting B7-H1 in gastric carcinoma. *Oncotarget.* 2017 Apr 25;8(17):28125-28134.
  263. Qin X, Yu S, Zhou L, Shi M, Hu Y, Xu X, Shen B, Liu S, Yan D, Feng J. Cisplatin-resistant lung cancer cell-derived exosomes increase cisplatin resistance of recipient. *Int J Nanomed.* 2017 May 15;12:3721-3733.
  264. Tang W, Shen M, Xie J, Liu D, Du M, Lin L, Gao H, Hamaker BR, Xie M. Physicochemical characterization, antioxidant activity of polysaccharides from *Mesona chinensis* Benth and their protective effect on injured NCTC-1469 cells induced by H2O2. *Carbohydr Polym.* 2017 Nov 1;175:538-546.
  265. Pu SY, Yu Q, Wu H, Jiang JJ, Chen XQ, He YH, Kong Q. ERCC6L, a DNA helicase, is involved in cell proliferation and associated with survival and progress in breast and kidney cancers. *Oncotarget.* 2017 Jun 27;8(26):42116-42124.
  266. Zhu Y, Wang Y, Yao R, Hao T, Cao J, Huang H, Wang L, Wu Y. Enhanced neuroinflammation mediated by DNA methylation of the glucocorticoid receptor triggers cognitive dysfunction after sevoflurane anesthesia in adult rats subjected to maternal separation during the neonatal period. *J Neuroinflammation.* 2017 Jan 7;14(1):6.
  267. An F, Gong G, Wang Y, Bian M, Yu L, Wei C. MiR-124 acts as a target for Alzheimer's disease by regulating BACE1. *Oncotarget.* 2017 Dec 9;8(69):114065-114071.
  268. Tang M, Jiang L, Lin Y, Wu X, Wang K, He Q, Wang X, Li W. Platelet microparticle-mediated transfer of miR-939 to epithelial ovarian cancer cells promotes epithelial to mesenchymal transition. *Oncotarget.* 2017 Oct 27;8(57):97464-97475.
  269. Weiming Sun, Jinxia Yang, Yuanzhou Zhang, Yuxin Xi, Xin Wen, Di Yuan, Yuehong Wang, Can Wei, Rui Wang, Lingyun Wu, Hongzhu Li, Changqing Xu. Exogenous H2S restores ischemic post-conditioning-induced cardioprotection through inhibiting endoplasmic reticulum stress in the aged cardiomyocytes. *Cell Biosci.* 11 December 2017.
  270. Zhang Z, Ke M, Qu Q, Peijnenburg WJGM, Lu T, Zhang Q, Ye Y, Xu P, Du B, Sun L, Qian H. Impact of copper nanoparticles and ionic copper exposure on wheat (*Triticum aestivum* L.) root morphology and antioxidant response. *Environ Pollut.* 2018 Aug;239:689-697.
  271. Zhao X, Wu X, Qian M, Song Y, Wu D, Zhang W. Knockdown of TGF- $\beta$ 1 expression in human umbilical cord mesenchymal stem cells reverts their exosome-mediated EMT promoting effect on lung cancer cells. *Cancer Lett.* 2018 Aug 1;428:34-44.
  272. Zhao C, Yang C, Chen M, Lv X, Liu B, Yi L, Cornara L, Wei MC, Yang YC, Tundis R, Xiao J. Regulatory Efficacy of Brown Seaweed *Lessonia nigrescens* Extract on the Gene Expression Profile and Intestinal Microflora in Type 2 Diabetic Mice. *Mol Nutr Food Res.* 2018 Feb;62(4).
  273. Luo J, Xu Q, Jiang B, Zhang R, Jia X, Li X, Wang L, Guo C, Wu N, Shi D. Selectivity, cell permeability and oral availability studies of novel bromophenol derivative HPN as protein tyrosine phosphatase 1B inhibitor. *Brit J Pharmacol.* 2018 Jan;175(1):140-153.
  274. Wu YX, He HQ, Nie YJ, Ding YH, Sun L, Qian F. Protostemonine effectively attenuates lipopolysaccharide-induced acute lung injury in mice. *Acta Pharmacol Sin.* 2018 Jan;39(1):85-96.

275. Zhang X, Li J, Wang X, Wang Y, Hang R, Huang X, Tang B, Chu PK. Effects of copper nanoparticles in porous TiO2 coatings on bacterial resistance and cytocompatibility of osteoblasts and endothelial cells. *Mat Sci Eng C-mater.* 2018 Jan 1;82:110-120.
276. Xu B, Zhang W, Chen Y, Xu Y, Wang B, Zong LEudragit® L100-coated mannoseylated chitosan nanoparticles for oral protein vaccine delivery. *Int J Biol Macromol.* 2018 Jul 1;113:534-542.
277. Zhao L, Tao X, Qi Y, Xu L, Yin L, Peng J. Protective effect of dioscin against doxorubicin-induced cardiotoxicity via adjusting microRNA-140-5p-mediated myocardial oxidative stress. *Redox Biol.* 2018 Jun;16:189-198.
278. Duan D, Wang H, Zhou R, Jiang Q, Xiao R. The PR-1 domain accounts for the anti-angiogenic activity of a cysteine-rich secretory protein member from the buccal glands of *Lampetra japonica*. *Int J Biol Macromol.* 2018 Feb;107(Pt B):2102-2112.
279. Liang J, Chen S, Hu Y, Yang Y, Yuan J, Wu Y, Li S, Lin J, He L, Hou S, Zhou L, Huang S. Protective roles and mechanisms of *Dendrobium officinale* polysaccharides on secondary liver injury in acute colitis. *Int J Biol Macromol.* 2018 Feb;107(Pt B):2201-2210.
280. Yao H, Tao X, Xu L, Qi Y, Yin L, Han X, Xu Y, Zheng L, Peng J. Dioscin alleviates non-alcoholic fatty liver disease through adjusting lipid metabolism via SIRT1/AMPK signaling pathway. *Pharmacol Res.* 2018 May;131:51-60.
281. Hou L, Gan F, Zhou X, Zhou Y, Qian G, Liu Z, Huang K. Immunotoxicity of ochratoxin A and aflatoxin B1 in combination is associated with the nuclear factor kappa B signaling pathway in 3D4/21 cells. *Chemosphere.* 2018 May;199:718-727.
282. Xiao Q, Piao R, Wang H, Li C, Song L. Orientin-mediated Nrf2/HO-1 signal alleviates H2O2-induced oxidative damage via induction of JNK and PI3K/AKT activation. *Int J Biol Macromol.* 2018 Oct 15;118(Pt A):747-755.
283. Huang X, Wang Z, Li D, Huang Z, Dong X, Li C, Lan J. Study of microRNAs targeted Dvl2 on the osteoblasts differentiation of rat BMSCs in hyperlipidemia environment. *J Cell Physiol.* 2018 Sep;233(9):6758-6766.
284. Chengbo Liu, Ze Chen, Wen Li, Lisu Huang, Yongjun Zhang. Vitamin D Enhances Alveolar Development in Antenatal Lipopolysaccharide-Treated Rats through the Suppression of Interferon- $\gamma$  Production. *Front Immunol.* 2018 Jan 5.
285. Fang WJ, Wang CJ, He Y, Zhou YL, Peng XD, Liu SK. Resveratrol alleviates diabetic cardiomyopathy in rats by improving mitochondrial function through PGC-1 $\alpha$  deacetylation. *Acta Pharmacol Sin.* 2018 Jan;39(1):59-73.
286. Wu B, Wu X, Liu S, Wang Z, Chen L. Size-dependent effects of polystyrene microplastics on cytotoxicity and efflux pump inhibition in human Caco-2 cells. *Chemosphere.* 2019 Apr;221:333-341.
287. Lei M, Ma G, Sha S, Wang X, Feng H, Zhu Y, Du X. Dual-functionalized liposome by co-delivery of paclitaxel with sorafenib for synergistic antitumor efficacy and reversion of multidrug resistance. *Drug Deliv.* 2019 Dec;26(1):262-272.
288. Wang K, Hu S, Wang B, Wang J, Wang X, Xu C. Genistein protects intervertebral discs from degeneration via Nrf2-mediated antioxidant defense system: An in vitro and in vivo study. *J Cell Physiol.* 2019 Feb 18.
289. Wang L, Yan W, Wang J. Silencing MEKK3 attenuates cardiomyocyte injury caused by hypoxia/reoxygenation via the sonic hedgehog pathway. *J Cell Physiol.* 2019 Feb 3.
290. Wang Y, Zhang M, Li Z, Yue J, Xu M, Zhang Y, Yung KKL, Li R. Fine particulate matter induces mitochondrial dysfunction and oxidative stress in human SH-SY5Y cells. *Chemosphere.* 2019 Mar;218:577-588.
291. Yu Z, Yu Z, Chen Z, Yang L, Ma M, Lu S, Wang C, Teng C, Nie Y. Zinc chelator TPEN induces pancreatic cancer cell death through causing oxidative stress and inhibiting cell autophagy. *J Cell Physiol.* 2019 Nov;234(11):20648-20661.
292. Li Y, Li R, Ouyang N, Dai K, Yuan P, Zheng L, Wang W. Investigating the impact of local inflammation on granulosa cells and follicular development in women with ovarian endometriosis. *Fertil Steril.* 2019 Nov;112(5):882-891.e1.
293. Weixiang Song, Yindeng Luo, Yajing Zhao, Xinjie Liu, Jianrong Zhao, Jie Luo, Qunxia Zhang, Haitao Ran, Zhigang Wang, Dajing Guo. Delivery and trimodal imaging in breast cancer: an in vitro study. *Nanomedicine.* VOL. 12, NO. 9.

**注：**更多使用本产品的文献请参考产品网页。

Version 2020.09.16