Support: +86-400-1683301 / info-intl@beyotime.com
Orders: order-intl@beyotime.com
Tel: +86-400-1683301 / +86-800-8283301
Add: 1500 Xinfei Rd, Songjiang, Shanghai, China
Web: www.beyotime.com

Enhanced BCA Protein Assay Kit

Cat. No.	Product Name	Pack Size
P0009	Enhanced BCA Protein Assay Kit	5000T

Description:

- Beyotime's Enhanced BCA Protein Assay Kit is an upgraded formulation based on the Bicinchoninic Acid (BCA) Protein Assay method which is one of the two most commonly used methods for determining protein concentrations. This product provides a simple, sensitive, and highly stable method for quantifying total protein in samples with high compatibility.
- Compared with the BCA Protein Assay Kit produced by Beyotime (P0011/P0012/P0012S), this kit has higher sensitivity, with the lower detection limit down to 10μg/ml and a minimum detection protein amount of 0.2μg. The microplate protocol requires a sample volume of 1-20μl.
- Compared with the BCA Protein Assay Kit produced by Beyotime (P0011/P0012/P0012S), the color development of this product is faster. It takes less time for color formation.
- This kit has a good linearity in the concentration range of 20-1000μg/ml. Please refer to Figure 1 for the standard curves obtained with this kit.

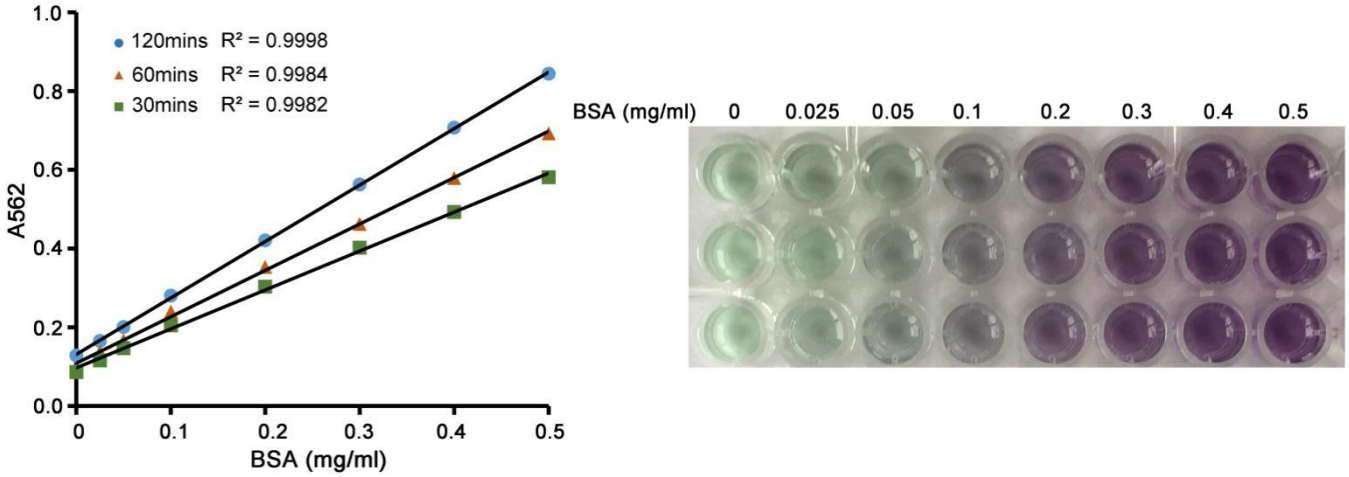

Figure 1. Standard curves of BSA obtained with Beyotime's Enhanced BCA Protein Assay Kit (P0009). The picture on the left shows the standard curves obtained after incubation at 37ºC for different time courses as indicated. The picture on the right shows the actual color formation after incubation at 37ºC for 60 minutes. This figure is for reference only, which may vary due to different experimental conditions.

- BCA Protein Assay is not affected by the chemical substances in most samples. It is compatible with 5% of SDS, Triton X-100, Tween 20, 60, or 80 in samples. However, this assay can be interfered by chelators and higher concentrations of reductants. EGTA, EDTA higher than 10mM, DTT higher than 1mM, and β-Mercaptoethanol higher than 0.01% should be avoided from the assay. When the BCA Protein Assay method is not suitable for a sample, we recommend using the Bradford Protein Assay Kit (Beyotime, P0006).
- The detailed compatibility of Beyotime's Enhanced BCA Protein Assay Kit with various substances in samples is the same as that of the BCA Protein Assay Kit. Please check the following webpage for detailed information: http://www.beyotime.com/Compatibility Chart For BCA Kit.pdf.
- This kit is sufficient for 500o assays, respectively, when the 96-well plate is used for the assay as described in the protocol.

Packing List:

Item	Component	Quantity
P0009-1	BCA Reagent A	500ml×2

P0009-2	BCA Reagent B	30ml
P0009-3	BSA Standard	30mg×2
P0009-4	BSA Preparation Solution	5ml
Manual	—	1 copy

Storage Conditions:

Store at room temperature upon receipt. The BSA standard solution after preparation should be aliquoted and stored at -20ºC.

Precautions:

- A 96-well plate and a microplate reader that can measure the absorbance at 540-595nm (optimum at 562nm) are required. A spectrophotometer can also be used, but the assay volume should be adjusted based on the volume of the cuvette. When using a spectrophotometer, the number of samples that can be measured using this kit may be significantly reduced.
- If the sample dilution buffer or sample lysate itself generates a high background, please try Beyotime's Bradford Protein Assay Kit (P0006).
- In order to speed up the determination of protein concentration by BCA method, heat the reaction appropriately in a microwave oven, but do not overheat.
- This method is compatible with EDTA less than 10mM, but not EGTA. When the BCA method is not applicable, Beyotime's Bradford Protein Assay Kit (P0006) can be attempted.
- This product is for R&D only. Not for drug, household, or other uses.
- For your safety and health, please wear a lab coat and disposable gloves during the operation.

Instructions for Use:

1. **Preparation of BSA Standards**
   a. Add 1.2ml of BSA Preparation Solution into one tube of BSA Standard (30mg BSA) provided in this kit to make a 25mg/ml BSA standard solution after fully dissolving. Keep an appropriate amount for immediate use. Aliquot and store the rest at -20ºC for future use.
   b. Dilute an appropriate amount of 25mg/ml BSA standard solution to a final concentration of 0.5mg/ml (e.g., mix 20μl of 25mg/ml BSA standard solution with 980μl of diluent). The standard should be diluted with the buffer used for sample preparation, or with the 0.9% NaCl or PBS for simplicity. The diluted 0.5mg/ml BSA standard can be stored at -20ºC for long term storage.
2. **Preparation of BCA Working Solution**
   According to the number of assays, prepare an appropriate amount of BCA Working Solution by mixing BCA reagent A and BCA reagent B at a ratio of 50:1 (e.g., mix 5ml of BCA reagent A with 100μl of BCA reagent B) and mix well. The BCA Working Solution is stable for 24 hours at room temperature.
3. **Determination of Protein Concentration**
   a. Pipette 0, 1, 2, 4, 8, 12, 16, and 20μl of the 0.5mg/ml BSA standard solution to the standard wells of the 96-well plate, and add the sample preparation buffer to a final volume of 20μl per well, which is equivalent to 0, 0.025, 0.05, 0.1, 0.2, 0.3, 0.4, and 0.5 mg/ml, respectively.
   b. Add an appropriate volume of sample to the sample wells of the 96-well plate. If the sample is less than 20μl, add the sample preparation buffer to a final volume of 20μl per well. Record the sample volume used.
   c. Add 200μl of BCA Working Solution to each well and incubate at 37ºC for 20-30 minutes.
      Note: *The reactions can also be incubated at room temperature for 2 hours, or at 60ºC for 30 minutes. The color intensity of the reactions will continue to increase over time, and the color development will be accelerated by the increase of temperature. If the protein concentration of a sample is low, we recommend incubating at a higher temperature or extending the incubation time appropriately.*
   d. Measure the absorbance at 562nm or other wavelength between 540-595nm with a microplate reader.
   e. Calculate the protein concentration of the sample based on the standard curve and the sample volume used.

FAQ:

1. **When measuring the standard curve, it was found that the absorbance or color intensity did not change significantly with the increase of standard concentrations.**

   The possible reason is that the sample preparation buffer contains substances that seriously interfere with the BCA Protein Assay. For a detailed information about the substances that cause interference with the BCA Protein Assay, please refer to our website at: http://www.beyotime.com/Compatibility Chart For BCA Kit.pdf

2. **Do I need to make a standard curve for every measurement?**

   It is recommended to make a standard curve for every measurement, because the color intensity of BCA reactions will increase over time and the color development is related to the temperature. Unless the time and temperature of the assay can be precisely controlled, a standard curve should be plotted for every measurement when accurate quantification is desired.

Related Products:

Cat. No.	Product Name	Pack Size
P0006	Bradford Protein Assay Kit	1000T
P0006C	Detergent Compatible Bradford Protein Assay Kit	800T
P0007	BSA Standard (5mg/ml)	1ml
P0009	Enhanced BCA Protein Assay Kit	5000T
P0010	Enhanced BCA Protein Assay Kit	500T
P0010S	Enhanced BCA Protein Assay Kit	200T
P0011	BCA Protein Assay Kit	5000T
P0012	BCA Protein Assay Kit	500T
P0012S	BCA Protein Assay Kit	200T

Product Citations:

1. Liu MJ, Wang Z, Li HX, Wu RC, Liu YZ, Wu QY. Mitochondrial dysfunction as an early event in the process of apoptosis induced by woodfordin I in human leukemia K562 cells. Toxicol Appl Pharmacol. 2004 Jan 15;194(2):141-155.
2. Wu RC, Chen DF, Liu MJ, Wang Z. Dual effects of cycloheximide on U937 apoptosis induced by its combination with VP-16. Biol Pharm Bull. 2004 Jul; 27(7):1075-1080.
3. Zheng CH, Gao JQ, Zhang YP, Liang WQ. A protein delivery system: biodegradable alginate-chitosan-poly(lactic-co-glycolic acid) composite microspheres. Biochem Biophys Res Commun. 2004 Oct 29; 323(4):1321-1327.
4. Wu RC, Wang Z, Liu MJ, Chen DF, Yue XS. Chen and X.-S. Yue.β2- integrins mediate a novel form ofchemoresistance in cycloheximide- induced U937 apoptosis. Cell. Mol. Life Sci. 2004;61(16):2071-2082.
5. 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.
6. Liu MJ, Wang Z, Ju Y, Wong RN, Wu QY. Diosgenin induces cell cycle arrest and apoptosis in human leukemia K562 cells with the disruption of Ca2+ homeostasis. Cancer Chemother Pharmacol. 2005 Jan;55(1):79-90.
7. Le-feng Zhang, Shuang-qing Peng, Sheng Wang. Influence of lead (Pb2+) on the reactions of in vitro cultured rat aorta to 5-hydroxytryptamine. Toxicology Letters. 2005;159:71-82.
8. Wu ZQ, Li M, Chen J, Chi ZQ, Liu JG. Involvement of cAMP/cAMP-dependent protein kinase signaling pathway in regulation of Na+,K+-ATPase upon activation of opioid receptors by morphine. Mol Pharmacol. 2006 Mar;69(3):866-876.
9. 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.
10. 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.
11. Zong-chun Yi, Hong Wang, Guang-yao Zhang, Bing Xia. Downregulation of connexin 43 in nasopharyngeal carcinoma cells is related to promoter methylation. Oral Oncol. 2007 Oct;43(9):898-904.
12. Zhang LF, Peng SQ, Wang S, Li BL, Han G, Dong YS. Direct effects of lead (Pb2+) on the relaxation of in vitro cultured rat aorta to acetylcholine. Toxicol Lett. 2007 Apr 25;170(2):104-110.
13. 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):708-715.
14. Dong S, Li C, Wu P, Tsien JZ, Hu Y. Environment enrichment rescues the neurodegenerative phenotypes in presenilins-deficient mice. Eur J Neurosci. 2007 Jul;26(1):101-112.
15. Wang Q, Liang C, Song J, Chen X. HA2 from the Helicoverpa armigera nucleopolyhedrovirus: a WASP-related protein that activates Arp2/3-induced actin filament formation. Virus Res. 2007 Jul; 127(1):81-87.
16. Yuan QL, Yang CX, Xu P, Gao XQ, Deng L, Chen P, Sun ZL, Chen QY. Neuroprotective effects of ginsenoside Rb1 on transient cerebral ischemia in rats. Brain Res. 2007 Sep 5;1167:1-12.
17. Chen YR, Nie SD, Shan W, Jiang DJ, Shi RZ, Zhou Z, Guo R, Zhang Z, Li YJ. Decrease in endogenous CGRP release in nitroglycerin tolerance: role of ALDH-2. Eur J Pharmacol. 2007 Sep 24;571(1):44-50.
18. Pan YQ, Ding D, Li DX, Chen SQ. Expression and bioactivity analysis of Staphylococcal enterotoxin M and N. Protein Expr Purif. 2007 Dec;56(2):286-292.
19. Jun Hong, Dongmei Xua, Peijun Gong, Hanwen Suna, Li Dong, Side Yao. Covalent binding of -chymotrypsin on the magnetic nanogels covered by amino groups. Journal of Molecular Catalysis B: Enzymatic. 2007;45:84-90.
20. Huang JW, Tian LX, Du ZY, Yang HJ, Liu YJ. Effects of dietary thiamin on the physiological status of the grouper Epinephelus coioides. Fish Physiol Biochem. 2007;33:167-172.
21. Wang M, Long AH, Liu CH, Ji G. Effect of Qinggan Huoxue recipe and its separated recipe on ERK signal ing pathway in Kupffer cell mediated by LPS. Integrative Medicine in the Journal of liver disease. 2007;17(5):277-280.
22. Nie H, Li Z, Lukas RJ, Shen Y, Song L, Wang X, Yin M. Construction of SH-EP1-alpha4beta2-hAPP695 Cell Line and Effects of Nicotinic Agonists on beta-amyloid in the Cells. Cell Mol Neurobiol. 2008 Jan;28(1):103-112.
23. Zhang H, Deng JY, Bi LJ, Zhou YF, Zhang ZP, Zhang CG, Zhang Y, Zhang XE. Characterization of Mycobacterium tuberculosis nicotinamidase/pyrazinamidase. FEBS J. 2008 Feb;275(4):753-62.
24. Zhang GG, Bai YP, Chen MF, Shi RZ, Jiang DJ, Fu QM, Tan GS, Li YJ. Asymmetric dimethylarginine induces TNF-alpha production via ROS/NF-kappaB dependent pathway in human monocytic cells and the inhibitory effect of reinioside C. Vascul Pharmacol. 2008 Feb-Mar; 48(2-3):115-121.
25. Li J, Liu W, Ding S, Xu W, Guan Y, Zhang JH, Sun X. Hyperbaric oxygen preconditioning induces tolerance against brain ischemia- reperfusion injury by upregulation of antioxidant enzymes in rats. Brain Res. 2008 May 19;1210:223-229.
26. Fu Y, Zhang Z, Zhang G, Liu Y, Cao Y, Yu J, Hu J, Yin X. Adenovirus-mediated gene transfer of tissue factor pathway inhibitor induces apoptosis in vascular smooth muscle cells. Apoptosis. 2008 May;13(5):634-640.
27. He X, Zhang Z, Zhang H, Zhao Y, Chai Z. Neurotoxicological evaluation of long-term lanthanum chloride exposure in rats. Toxicol Sci. 2008

Jun;103(2):354-361.

28. Wan F, You J, Sun Y, Zhang XG, Cui FD, Du YZ, Yuan H, Hu FQ. Studies on PEG-modified SLNs loading vinorelbine bitartrate (I): preparation and evaluation in vitro. Int J Pharm. 2008 Jul 9; 359(1-2):104-110.
29. Chen M, Li Y, Yang T, Wang Y, Bai Y, Xie X. ADMA induces monocyte adhesion via activation of chemokine receptors in cultured THP-1 cells. Cytokine. 2008 Aug;43(2):149-159.
30. 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 Radic Biol Med. 2008 Nov 15;45(10):1493-1499.
31. Sun J, Wu Y, Wang J, Ma F, Liu X, Li Q. Novel translationally controlled tumor protein homologue in the buccal gland secretion of Lampetra japonica. Biochimie. 2008 Nov-Dec;90(11-12):1760-1768.
32. 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.
33. Liu X, Zhang Z, Li P, Zhu L, Wang Y, Wang C. Polypeptide from Chlamys farreri modulates UVB-induced activation of NF-kappaB signaling pathway and protection HaCaT cells from apoptosis. Regul Pept. 2009 Feb 25;153(1-3):49-55.
34. Kang Y, Hu M, Zhu Y, Gao X, Wang MW. Antioxidative effect of the herbal remedy Qin Huo Yi Hao and its active component tetramethylpyrazine on high glucose-treated endothelial cells. Life Sci. 2009 Mar 27;84(13-14):428-436.
35. Xu J, Wang S, Lin Y, Cao L, Wang R, Chi Z. Ghrelin protects against cell death of hippocampal neurons in pilocarpine-induced seizures in rats. Neurosci Lett. 2009 Mar 27;453(1):58-61.
36. Cheng B, Song J, Zou Y, Wang Q, Lei Y, Zhu C, Hu C. Responses of vascular smooth muscle cells to estrogen are dependent on balance between ERK and p38 MAPK pathway activities. Int J Cardiol. 2009 May 29;134(3):356-365.
37. Chen MF, Li YJ, Yang TL, Lou B, Xie XM. Losartan inhibits monocytic adhesion induced by ADMA via downregulation of chemokine receptors in monocytes. Eur J Clin Pharmacol. 2009 May;65(5):457-464.
38. Zhang DL, Chen YQ, Jiang X, Ji TT, Mei B. Oxidative damage increased in presenilin1/presenilin2 conditional double knockout mice. Neurosci Bull. 2009 Jun;25(3):131-137.
39. Chen B, Gao XQ, Yang CX, Tan SK, Sun ZL, Yan NH, Pang YG, Yuan M, Chen GJ, Xu GT, Zhang K, Yuan QL. Neuroprotective effect of grafting GDNF gene-modified neural stem cells on cerebral ischemia in rats. Brain Res. 2009 Aug 11;1284:1-11.
40. Ding D, Huang P, Sun H, Xue Q, Pan Y, Chen S. Identification of protein components and quantitative immunoassay for SEC2 in staphylococcin injection. J Pharm Biomed Anal. 2009 Aug 15;50(1):79-85.
41. 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):3780-3789..
42. Liao Z, Huang C, Zhou F, Xiong J, Bao J, Zhang H, Sun W, Xie C, Zhou Y. Radiation enhances suicide gene therapy in radioresistant laryngeal squamous cell carcinoma via activation of a tumor-specific promoter. Cancer Lett. 2009 Sep 28;283(1):20-28.
43. Shi GS, Ren LF, Wang LZ, Lin HS, Wang SB, Tong YQ. H2O2/HCl and heat-treated Ti-6Al-4V stimulates pre-osteoblast proliferation and differentiation. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009 Sep;108(3):368-375.
44. Chen Y, Wang J, Yao Y, Yuan W, Kong M, Lin Y, Geng D, Nie R. CRP regulates the expression and activity of tissue factor as well as tissue factor pathway inhibitor via NF-kappaB and ERK 1/2 MAPK pathway. FEBS Lett. 2009 Sep 3;583(17):2811-2818.
45. Wang S, Lv X, Zhang K, Lin T, Liu X, Yuan J, Dai Y, Li N. Knockdown of the prion gene expression by RNA interference in bovine fibroblast cells. Mol Biol Rep. 2010 Oct;37(7):3193-3198.
46. 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):6109-6118.
47. Hua W, Jiang J, Rong X, Wu R, Qiu H, Zhang Y, Chen Q. The dual role of the cystathionine gamma-lyase/hydrogen sulfide pathway in CVB3-induced myocarditis in mice. Biochem Biophys Res Commun. 2009 Oct 23;388(3):595-600.
48. 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.
49. Jin-qiao S, Bin S, Wen-hao Z, Yi Y. Basic fibroblast growth factor stimulates the proliferation and differentiation of neural stem cells in neonatal rats after ischemic brain injury. Brain Dev. 2009;31(5):331-340.
50. Gong HS, Meng XC, Wang H. Plantaricin MG active against Gram-negative bacteria produced by Lactobacillus plantarum KLDS1.0391 isolated from "Jiaoke", a traditional fermented cream from China. Food Control. 2010 Jan;21(1):89-96.
51. Sun H, Li QW, Lv XY, Ai JZ, Yang QT, Duan JJ, Bian GH, Xiao Y, Wang YD, Zhang Z, Liu YH, Tan RZ, Yang Y, Wei YQ, Zhou Q. MicroRNA-17 post-transcriptionally regulates polycystic kidney disease-2 gene and promotes cell proliferation. Mol Biol Rep. 2010 Jul;37(6):2951-2958.
52. Chen S, Chen Y, Hu C, Jing H, Cao Y, Liu X. Association of clinicopathological features with UbcH10 expression in colorectal cancer. J Cancer Res Clin Oncol. 2010 Mar;136(3):419-426.
53. Sun J, Zhou W, Sha B, Yang Y. Ischemia induced neural stem cell proliferation and differentiation in neonatal rat involved vascular endothelial growth factor and transforming growth factor-beta pathways. Brain Dev. 2010 Mar;32(3):191-200.
54. 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.
55. Han J, Zhou YP, Jiang YZ, He YT, Mei F. Postnatal development of interstitial cells of Cajal in mouse colon in response to Kit signal blockade with Imatinib (Glivec). Acta Histochem. 2010;112(3):215-221.
56. Lin Y, Xu J, Cao L, Han Y, Gao J, Xie N, Zhao X, Jiang H, Chi Z. Mitochondrial base excision repair pathway failed to respond to status epilepticus induced by pilocarpine. Neurosci Lett. 2010;474(1):22-25.
57. Zhao L, Wang X, Chang Q, Xu J, Huang Y, Guo Q, Zhang S, Wang W, Chen X, Wang J. Neferine, a bisbenzylisoquinline alkaloid attenuates bleomycin-induced pulmonary fibrosis. Eur J Pharmacol. 2010; 627(1-3):304-312.
58. Yan J, Sun XB, Wang HQ, Zhao H, Zhao XY, Xu YX, Guo JC, Zhu CQ. Chronic restraint stress alters the expression and distribution of phosphorylated tau and MAP2 in cortex and hippocampus of rat brain. Brain Res. 2010;1347:132-141.
59. Yuan H, Zhang W, Du YZ, Hu FQ. Ternary nanoparticles of anionic lipid nanoparticles/protamine/DNA for gene delivery. Int J Pharm. 2010; 392(1-2):224-231.
60. Yu Q, Zhao Z, Sun J, Guo W, Fu J, Burnstock G, He C, Xiang Z. Expression of P2X6 receptors in the enteric nervous system of the rat gastrointestinal tract. Histochem Cell Biol. 2010;133(2):177-188.
61. Ding XL, Wang YH, Ning LP, Zhang Y, Ge HY, Jiang H, Wang R, Yue SW. Involvement of TRPV4-NO-cGMP-PKG pathways in the development of thermal hyperalgesia following chronic compression of the dorsal root ganglion in rats. Behav Brain Res. 2010;208(1):194-201.
62. Huang LH, Hu JQ, Tao WQ, Li YH, Li GM, Xie PY, Liu XS, Jiang J. Gossypol inhibits phosphorylation of Bcl-2 in human leukemia HL-60 cells. Eur J Pharmacol. 2010;645(1-3):9-13.
63. Sun J, Sha B, Zhou W, Yang Y. VEGF-mediated angiogenesis stimulates neural stem cell proliferation and differentiation in the premature brain. Biochem Biophys Res Commun. 2010;394(1):146-152.
64. Liu PS, Chen Q, Wu SS, Shen J, Lin SC. Surface modification of cellulose membranes with zwitterionic polymers for resistance to protein adsorption and platelet adhesion. Journal of Membrane Science. 2010 Mar;350(1-2):387-394.
65. Cao BY, Yang YP, Luo WF, Mao CJ, Han R, Sun X, Cheng J, Liu CF. Paeoniflorin, a potent natural compound, protects PC12 cells from MPP+ and acidic damage via autophagic pathway. J Ethnopharmacol. 2010; 131(1):122-129.
66. 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. 2010;691(1-2):1-8.
67. Ye Y, Hu SJ, Li L. Inhibition of farnesylpyrophosphate synthase prevents angiotensin II-induced hypertrophic responses in rat neonatal cardiomyocytes: involvement of the RhoA/Rho kinase pathway. FEBS Lett. 2009 Sep 17;583(18):2997-3003.
68. Liu C, Guo W, Shi X, Kaium MA, Gu X, Zhu YZ. Leonurine-cysteine analog conjugates as a new class of multifunctional anti-myocardial ischemia agent. Eur J Med Chem. 2011 Sep;46(9):3996-4009.
69. Chen Z, Liu S, Sumida T, Sun S, Wei Y, Liu M, Dong Z, Zhang F, Hamakawa H, Wei F. Silencing Id-1 with RNA Interference Inhibits Adenoid Cystic Carcinoma in Mice. J Surg Res. 2011 Jul;169(1):57-66.
70. Wu J, Song R, Song W, Li Y, Zhang Q, Chen Y, Fu Y, Fang W, Wang J, Zhong Z, Ling H, Zhang L, Zhang F. Chlorpromazine protects against apoptosis induced by exogenous stimuli in the developing ratbrain. PLoS One. 2011;6(7):e21966.
71. Huang Z, Song L, Wang C, Liu JQ, Chen C. Hypoxia-ischemia upregulates TRAIL and TRAIL receptors in the immature rat brain. Dev Neurosci. 2011;33(6):519-530.
72. Wang S, Zhang J, Jiang T, Zheng L, Wang Z, Zhang J, Yu P. Protective effect of Coenzyme Q(10) against oxidative damage in human lens epithelial cells by novel ocular drug carriers. Int J Pharm. 2011 Jan 17; 403(1-2):219-229.
73. Nie HZ, Li ZQ, Yan QX, Wang ZJ, Zhao WJ, Guo LC, Yin M. Nicotine decreases beta-amyloid through regulating BACE1 transcription in SH- EP1-α4β2 nAChR-APP695 cells. Neurochem Res. 2011 May; 36(5):904-912.
74. Cao B, Aa J, Wang G, Wu X, Liu L, Li M, Shi J, Wang X, Zhao C, Zheng T, Guo S, Duan J. GC-TOFMS analysis of metabolites in adherent MDCK cells and a novel strategy for identifyingintracellular metabolic markers for use as cell amount indicators in data normalization. Anal Bioanal Chem. 2011 Jul;400(9):2983-2993.
75. Cao X, Yang M, Wei RC, Zeng Y, Gu JF, Huang WD, Yang DQ, Li HL, Ding M, Wei N, Zhang KJ, Xu B, Liu XR, Qian QJ, Liu XY. Cancer targeting Gene-Viro-Therapy of liver carcinoma by dual-regulated oncolytic adenovirusarmed with TRAIL gene. Gene Ther. 2011 Aug; 18(8):765-777.
76. Lu J, Wang C, Zhou Z, Zhang Y, Cao T, Shi C, Chen Z, Chen L, Cai C, Fan X. Immunogenicity and protective efficacy against murine tuberculosis ofa prime-boost regimenwith BCG and a DNA vaccine expressing ESAT-6 and Ag85A fusion protein. Clin Dev Immunol. 2011;2011:617892.
77. Hao D, Huang X, Zhen HY,Chen YC, Liu LJ, Wang XM, Wang ZY. ER-a36 participate growth inhibiting which induced by Tamoxifen in gastric cancer cell line BGC823. Human Health and Biomedical Engineering (HHBE). 2011 Aug; 1062-1065.
78. Qiu T, Zhu HC, Liu XH, Dong WC, Weng XD, Hu CH, Kuang YL, Gao RH, Dan C, Tao T. Lentiviral-mediated shRNA against RelB induces the generation of tolerogenic dendritic cells. Int Immunopharmacol. 2012 Mar;12(3):501-509.

79. Jin Y, Sui HJ, Dong Y, Ding Q, Qu WH, Yu SX, Jin YX. Atorvastatin enhances neurite outgrowth in cortical neurons in vitro via up-regulating theAkt/mTOR and Akt/GSK-3β signaling pathways. Acta Pharmacol Sin. 2012 Jul;33(7):861-872.
80. Luo J, Zeng K, Zhang C, Fang M, Zhang X, Zhu Q, Wang L, Wang W, Wang X, Chen G. Down-Regulation of CRMP-1 in Patients with Epilepsy and a Rat Model. Neurochem Res. 2012 Jul;37(7):1381-1391.
81. Du Z, Yang Y, Hu Y, Sun Y, Zhang S, Peng W, Zhong Y, Huang X, Kong W. A long-term high-fat diet increases oxidative stress, mitochondrial damage and apoptosis in theinner ear of D-galactose-induced aging rats. Hear Res. 2012 May;287(1-2):15-24.
82. Wang F, Zhao XQ, Liu JN, Wang ZH, Wang XL, Hou XY, Liu R, Gao F, Zhang MX, Zhang Y, Bu PL. Antagonist of microRNA-21 improves balloon injury-induced rat iliac artery remodeling by regulating proliferation and apoptosis of adventitial fibroblasts and myofibroblasts. J Cell Biochem. 2012 Sep;113(9):2989-3001.
83. Du G, Ye L, Zhang G, Dong Q, Liu K, Tian J. Human IL18-IL2 fusion protein as a potential antitumor reagent by enhancing NK cell cytotoxicityand IFN-γ production. J Cancer Res Clin Oncol. 2012 Oct; 138(10):1727-1736.
84. Gao Y, Zhang RR, Li JH, Ren M, Ren ZX, Shi JH, Pan QZ, Ren SP. Radix Astragali lowers kidney oxidative stress in diabetic rats treated with insulin. Endocrine. 2012 Dec;42(3):592-598.
85. Liu Y, Yin B, Zhang C, Zhou L, Fan J. Hsa-let-7a functions as a tumor suppressor in renal cell carcinoma cell lines by targeting c-myc. Biochem Biophys Res Commun. 2012 Jan 6;417(1):371-375.
86. Zhou J, Shang J, Ping F, Zhao G. Alcohol extract from Vernonia anthelmintica (L.) willd seed enhaces melanin synthesis through activation of the p38 MAPK signaling pathway in B16F10 cells and primary melanocytes. J Ethnopharmacol. 2012 Sep 28;143(2):639-647.
87. Ding F, Shao ZW, Yang SH, Wu Q, Gao F, Xiong LM. Role of mitochondrial pathway in compression-induced apoptosis of nucleus pulposus cells. Apoptosis. 2012 Jun;17(6):579-590.
88. Zhang D, Jin T, Xu YQ, Lu YF, Wu Q, Zhang YK, Liu J. Diurnal-and sex-related difference of metallothionein expression in mice. J Circadian Rhythms. 2012 Jul 24;10(1):5.
89. Ding M, Cao X, Xu HN, Fan JK, Huang HL, Yang DQ, Li YH, Wang J, Li R, Liu XY. Prostate cancer-specific and potent antitumor effect of a DD3-controlled oncolytic virus harboring the PTEN gene. PLoS One. 2012;7(4):e35153.
90. Xu Z, Zhang C, Zhang Y, Yang X. Europium complexes as novel indicators of paracellular diffusion. Chem Biodivers. 2012 Sep; 9(9):1916-1922.
91. He Y, Cai G, Ni Y, Li Y, Zong H, He L. siRNA-mediated knockdown of two tyrosinase genes from Schistosoma japonicum cultured in vitro. Exp Parasitol. 2012 Dec;132(4):394-402.
92. Guo E, He Q, Liu S, Tian L, Sheng Z, Peng Q, Guan J, Shi M, Li K, Gilbert LI, Wang J, Cao Y, Li S. MET is required for the maximal action of 20-hydroxyecdysone during Bombyx metamorphosis. PLoS One. 2012;7(12):e53256.
93. Zhang YP, Sun P, Zhang XR, Yang WL. In vitro gastric cancer cell imaging using near-infrared quantum dot-conjugated CC49. Oncol Lett. 2012 Nov;4(5):996-1002.
94. 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-1α pathway. J Cell Physiol. 2013 Jun;228(6):1238-1248.
95. Liu Z, Chang Y, Zhang J, Huang X, Jiang J, Li S, Wang Z. Magnesium deficiency promotes secretion of high-mobility group box 1 protein fromlipopolysaccharide-activated macrophages in vitro. J Surg Res. 2013 Apr;180(2)310-316.
96. Wu J, Yang J, Liu Q, Wu S, Ma H, Cai Y. Lanthanum induced primary neuronal apoptosis through mitochondrial dysfunction modulated by Ca2+ and Bcl-2 family. Biol Trace Elem Res. 2013 Apr;152(1):125-134.
97. Li L, Ma Y. Effect of fatty acids on the β-oxidation system and thioesterase of Lactococcus lactis subspecies lactis. J Dairy Sci. 2013 Apr;96(4):2003-2010.
98. Ren M, Yang S, Li J, Hu Y, Ren Z, Ren S. Ginkgo biloba L.extract enhances the effectiveness of syngeneic bone marrow mesenchymal stem cells in lowering blood glucose levels and reversing oxidative stress. Endocrine. 2013 Apr;43(2):360-369.
99. Liu Z, Zhang J, Huang X, Huang L, Li S, Wang Z. Magnesium sulfate inhibits the secretion of high mobility group box 1 from lipopolysaccharide-activated RAW264.7 macrophages in vitro. J Surg Res. 2013 Jan;179(1):e189-195.
100. Wu XR, Sha JJ, Liu DM, Chen YH, Yang GL, Zhang J, Chen YY, Bo JJ, Huang YR. High expression of P53-induced Ring-h2 protein is associated with poor prognosis in clear cell renal cell carcinoma. Eur J Surg Oncol. 2013 Jan;39(1):100-106.
101. Qu J, Li J, Chen K, Qin D, Li K, Sheng Y, Zou C, Wang S, Huang A, Tang H. Hepatitis B virus regulation of Raf1 promoter activity through activation of transcription factor AP-2α. Arch Virol. 2013 Apr; 158(4):887-894.
102. Feng J, Tang Y, Xu Y, Sun Q, Liao F, Han D. Substrate stiffness influences the outcome of antitumor drug screening in vitro. Clin Hemorheol Microcirc. 2013;55(1):121-131.
103. Yang D, Li L, Liu H, Wu L, Luo Z, Li H, Zheng S, Gao H, Chu Y, Sun Y, Liu J, Jia L. Induction of autophagy and senescence by knockdown of ROC1 E3 ubiquitin ligase to suppress the growth of liver cancer cells. Cell Death Differ. 2013 Feb;20(2):235-247.
104. Zhou J, Shang J, Song J, Ping F. Interleukin-18 augments growth ability of primary human melanocytes by PTEN inactivation through the AKT/NF-κB pathway. Int J Biochem Cell Biol. 2013 Feb;45(2):308-316.
105. Miao CG, Huang C, Huang Y, Yang YY, He X, Zhang L, Lv XW, Jin Y, Li J. MeCP2 modulates the canonical Wnt pathway activation by targeting SFRP4 in rheumatoid arthritis fibroblast-like synoviocytes in rats. Cell Signal. 2013 Mar;25(3):598-608.
106. Liu C, Guo W, Maerz S, Gu X, Zhu Y. 3,5-Dimethoxy-4-(3-(2-carbonyl-ethyldisulfanyl)-propionyl)-benzoic acid 4-guanidino- butyl ester: a novel twin drug that prevents primary cardiac myocytes from hypoxia-induced apoptosis. Eur J Pharmacol. 2013 Jan 30; 700(1-3):118-126.
107. Li X, Zhang J, Chen Z, Yang L, Xing X, Ma X, Yang Z. Both PI3K- and mTOR-signaling pathways take part in CVB3-induced apoptosis of HeLa cells. DNA Cell Biol. 2013 Jul;32(7):359-370.
108. Xie W, Lin B, Zhou Z, Lu G, Lun J, Xia C, Li S, Hu Z. Characterization of a novel β-agarase from an agar-degrading bacterium Catenovulum sp.X3. Appl Microbiol Biotechnol. 2013 Jun;97(11):4907-4915.
109. Wang G, Han B, Zhou H, Wu L, Wang Y, Jia G, Lv J, Cheng Z, Pan S, Liu J, Zhou Y, Sun B. Inhibition of hydrogen sulfide synthesis provides protection for severe acute pancreatitis rats via apoptosis pathway. Apoptosis. 2013 Jan;18(1):28-42.
110. Yang F, Wang J, Hou J, Guo H, Liu C. Bone regeneration using cell-mediated responsive degradable PEG-based scaffolds incorporating with rhBMP-2. Biomaterials. 2013 Feb;34(5):1514-1528.
111. Ye J, Yang T, Guo H, Tang Y, Deng F, Li Y, Xing Y, Yang L, Yang K. Wnt10b promotes differentiation of mouse hair follicle melanocytes. Int J Med Sci. 2013;10(6):691-698.
112. Wang M, Wang L, Zhou Z, Gao Y, Wang L, Shi X, Gai Y, Mu C, Song L. The molecular characterization of a catalase from Chinese mitten crab Eriocheir sinensis. Int J Immunogenet. 2013 Jun;40(3):230-240.
113. Wang F, Xu H, Yuan L, Ma S, Wang Y, Duan X, Duan J, Xiang Z, Xia Q. An optimized sericin-1 expression system for mass-producing recombinant proteins in the middle silk glands of transgenic silkworms. Transgenic Res. 2013 Oct;22(5)925-938.
114. Liu Y, Wang DK, Jiang DZ, Qin X, Xie ZD, Wang QK, Liu M, Chen LM. Cloning and functional characterization of novel variants and tissue-specific expression of alternative amino and carboxyl termini of products of slc4a10. PLoS One. 2013;8(2):e55974.
115. Jiang G, Cao Q, Li J, Zhang Y, Liu X, Wang Z, Guo F, Chen Y, Chen Y, Chen G, Wang X. Altered expression of vesicular monoamine transporter 2 in epileptic patients and experimental rats. Synapse. 2013 Jul;67(7):415-426.
116. Wang X, Zou F, Deng H, Fu Z, Li Y, Wu L, Wang Z, Liu L. Characterization of sphere-forming cells with stem like properties from the gastric cancer cell lines MKN45 and SGC7901. Mol Med Rep. 2014 Dec;10(6):2937-2941.
117. Sheng Y, Ding S, Chen K, Chen J, Wang S, Zou C, Zhang J, Cao Y, Huang A, Tang H. Functional analysis of miR-101-3p and Rap1b involved in hepatitis B virus-related hepatocellular carcinoma pathogenesis. Biochem Cell Biol. 2014 Apr;92(2):152-162.
118. Zuo T, Cao L, Sun X, Li X, Wu J, Lu S, Xue C, Tang Q. Dietary squid ink polysaccharide could enhance SIgA secretion in chemotherapeutic mice. Food Funct. 2014 Dec;5(12):3189-3196.
119. Shi Q, Cao J, Fang L, Zhao H, Liu Z, Ran J, Zheng X, Li X, Zhou Y, Ge D, Zhang H, WangL, Ran Y, Fu J. Geniposide suppresses LPS-induced nitric oxide, PGE2 and inflammatory cytokine by downregulating NF-κB, MAPK and AP-1 signaling pathways in macrophages. Int Immunopharmacol. 2014 Jun;20(2):298-306.
120. Liu L, Li T, Tan J, Fu J, Guo Q, Ji H, Zhang Y. NG as a novel nitric oxide donor induces apoptosis by increasing reactive oxygen species and inhibiting mitochondrial function in MGC803 cells. Int Immunopharmacol. 2014 Nov;23(1):27-36.
121. Liu Z, Zhang J, Wu L, Liu J, Zhang M. Overexpression of GNAO1 correlates with poor prognosis in patients with gastric cancer and plays a role in gastric cancer cell proliferation and apoptosis. Int J Mol Med. 2014 Mar;33(3):589-596.
122. Zhang LL, Sui HJ, Liang B, Wang HM, Qu WH, Yu SX, Jin Y. Atorvastatin prevents amyloid-β peptide oligomer-induced synapto toxicity and memory dysfunction in rats through a p38 MAPK-dependent pathway. Acta Pharmacol Sin. 2014 Jun;35(6):716-726.
123. Xiao X, Yu S, Li S, Wu J, Ma R, Cao H, Zhu Y, Feng J. Exosomes: decreased sensitivity of lung cancer A549 cells to cisplatin. PLoS One. 2014 Feb 21;9(2):e89534.
124. Li H, Jin G, Zhu P, Zou L, Shi J, Yi X, Zhang X, Tian M, Qin J. Upregulation of Lhx8 increase VAChT expression and ACh release in neuronal cell line SHSY5Y. Neurosci Lett. 2014 Jan 24;559:184-188.
125. Zhang F, Yang F, Zhao H, An Y. Curcumin alleviates lung injury in diabetic rats by inhibiting NF-κB pathway. Clin Exp Pharmacol Physiol. 2015 Sep;42(9):956-63.
126. Zhang Y, Wu S, Song S, Lv J, Feng C, Lin X. Preparation and characterization of a stable BHK-21 cell line constitutively expressing the Schmallenberg virus nucleocapsid protein. Mol Cell Probes. 2015 Aug;29(4):244-53.
127. Wang G, Kang N, Gong H, Luo Y, Bai C, Chen Y, Ji X, Huang C, Dong Q. Upregulation of uncoupling protein Ucp2 through acute cold exposure increases post-thaw sperm quality in zebrafish. Cryobiology. 2015 Dec;71(3):464-71.
128. Wang Y, Jiang Y, Ma N, Sang B, Hu X, Cong X, Liu Z. Overexpression of Hiwi Inhibits the Growth and Migration of Chronic Myeloid Leukemia Cells. Cell Biochem Biophys. 2015 Sep;73(1):117-24.

129. Wu J, Cheng M, Liu Q, Yang J, Wu S, Lu X, Jin C, Ma H, Cai Y. Protective Role of tert-Butylhydroquinone Against Sodium Fluoride-Induced Oxidative Stress and Apoptosis in PC12 Cells. Cell Mol Neurobiol. 2015 Oct;35(7):1017-25.

130. 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.

131. Du Z, Yang Q, Liu L, Li S, Zhao J, Hu J, Liu C, Qian D, Gao C. NADPH oxidase 2-dependent oxidative stress, mitochondrial damage and apoptosis in the ventral cochlear nucleus of D-galactose-induced aging rats. Neuroscience. 2015 Feb 12;286:281-92.

132. Jia K, Zhang Y, Ma W, Zhang X, Sun Q. Effect of interleukin-17 on receptor-interacting protein 4 expression and keratinocyte proliferation. Exp Ther Med. 2015 Jul;10(1):374-378.

133. Wang Y, Jiang Y, Bian C, Dong Y, Ma C, Hu X, Liu Z. Overexpression of Hiwi Inhibits the Cell Growth of Chronic Myeloid Leukemia K562 Cells and Enhances Their Chemosensitivity to Daunomycin. Cell Biochem Biophys. 2015 Sep;73(1):129-35.

134. 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. Ecotoxicol Environ Saf. 2015 Dec;122:126-35.

135. Guo X, Shang J, Deng Y, Yuan X, Zhu D, Liu H. Alterations in left ventricular function during intermittent hypoxia: Possible involvement of O-GlcNAc protein and MAPK signaling. Int J Mol Med. 2015 Jul; 36(1):150-8.

136. Yu S, Hou D, Chen P, Zhang Q, Lv B, Ma Y, Liu F, Liu H, Song EJ, Yang D, Liu J. Adenosine induces apoptosis through TNFR1/RIPK1/P38 axis in colon cancer cells. Biochem Biophys Res Commun. 2015 May 8;460(3):759-65.

137. Yu L, Xie J, Xin N, Wang Z. Panax notoginseng saponins promote wound repair of anterior cruciate ligament through phosphorylation of PI3K, AKT and ERK. Int J Clin Exp Pathol. 2015 Jan 1;8(1):441-9.

138. Chen D, Tao X, Wang Y, Tian F, Wei Y, Chen G, Shen H, Wang Z, Yu Z, Li H, Chen G. Curcumin accelerates reendothelialization and ameliorates intimal hyperplasia in balloon-injured rat carotid artery via the upregulation of endothelial cell autophagy. Int J Mol Med. 2015 Dec;36(6):1563-71.

139. Zhou J, Wang Z, Li Q, Liu F, Du Y, Yuan H, Hu F, Wei Y, You J. Hybridized doxorubicin-Au nanospheres exhibit enhanced near-infrared surface plasmon absorption for photothermal therapy applications. Nanoscale. 2015 Mar 19;7(13):5869-83.

140. Wang F, Meng Y, Zhang Y, Zhao G, Zheng X, Xiao Q, Yu Y. Ketamine reduces lipopolysaccharide-induced high-mobility group box-1 through heme oxygenase-1 and nuclear factor erythroid 2-related factor 2/ p38 mitogen-activated protein kinase. J Surg Res. 2015 Apr;194(2):599-613.

141. Ren A, Qiu Y, Cui H, Fu G. Inhibition of H3K9 methyltransferase G9a induces autophagy and apoptosis in oral squamous cell carcinoma. Biochem Biophys Res Commun. 2015 Mar 27;459(1):10-7.

142. Yang S, Zheng J, Xiao X, Xu T, Tang W, Zhu H, Yang L, Zheng S, Dong K, Zhou G, Wang Y. SOX2 promotes tumorigenicity and inhibits the differentiation of I-type neuroblastoma cells. Int J Oncol. 2015 Jan;46(1):317-23.

143. Shi Q, Cheng L, Liu Z, Hu K, Ran J, Ge D, Fu J. The p38 MAPK inhibitor SB203580 differentially modulates LPS-induced interleukin 6 expression in macrophages. Cent Eur J Immunol. 2015;40(3):276-82.

144. Wang H, Qi J, Li L, Wu T, Wang Y, Wang X, Ning Q. Inhibitory effects of Chikusetsusaponin IVa on lipopolysaccharide-induced pro- inflammatory responses in THP-1 cells. Int J Immunopathol Pharmacol. 2015 Sep;28(3):308-17.

145. Miao CG, Shi WJ, Xiong YY, Yu H, Zhang XL, Qin MS, Du CL, Song TW, Zhang B, Li J. MicroRNA-663 activates the canonical Wnt signaling through the adenomatous polyposis coli suppression. Immunol Lett. 2015 Jul;166(1):45-54.

146. Zhang B, He P, Lu Y, Bian X, Yang X, Fu X, Wu Y, Li D. HSF1 Relieves Amyloid-β-Induced Cardiomyocytes Apoptosis. Cell Biochem Biophys. 2015 Jun;72(2):579-87.

147. Wang W, Zeng L, Wang ZM, Zhang S, Rong XF, Li RH. Ginsenoside Rb1 inhibits matrix metalloproteinase 13 through down-regulating Notch signaling pathway in osteoarthritis. Exp Biol Med (Maywood). 2015 Dec;240(12):1614-21.

148. Hao Z, Yang J, Wang C, Li Y, Zhang Y, Dong X, Zhou L, Liu J, Zhang Y, Qian J. MicroRNA-7 inhibits metastasis and invasion through targeting focal adhesion kinase in cervical cancer. Int J Clin Exp Med. 2015 Jan 15;8(1):480-7.

149. Xiao WJ, Ma T, Ge C, Xia WJ, Mao Y, Sun RB, Yu XY, Aa JY, Wang GJ. Modulation of the pentose phosphate pathway alters phase I metabolism of testosterone and dextromethorphan in HepG2 cells. Acta Pharmacol Sin. 2015 Feb;36(2):259-67.

150. Yi X, Cai Y, Li W. Isoflurane Damages the Developing Brain of Mice and Induces Subsequent Learning and Memory Deficits through FASL-FAS Signaling. Biomed Res Int. 2015;2015:315872.

151. Wang C, Wu X, Shen F, Li Y, Zhang Y, Yu D. Shlnc-EC6 regulates murine erythroid enucleation by Rac1-PIP5K pathway. Dev Growth Differ. 2015 Aug;57(6):466-73.

152. Li L, Yang C, Liu X, Yang S, Ye S, Jia J, Liu W, Zhang Y. Elevated expression of microRNA-30b in osteoarthritis and its role in ERG regulation of chondrocyte. Biomed Pharmacother. 2015 Dec;76:94-9.

153. Miao CG, Qin D, Du CL, Ye H, Shi WJ, Xiong YY, Zhang XL, Yu H, Dou JF, Ma ST, Qin MS, Liu HZ, Fang YX, Zhou GL, Chen JZ, He X, Huang C, Huang Y, Zhang B, Song TW, Li J. DNMT1 activates the canonical Wnt signaling in rheumatoid arthritis model rats via a crucial functional crosstalk between miR-152 and the DNMT, MeCP2. Int Immunopharmacol. 2015 Sep;28(1):344-53.

154. Yu D, Li M, Tian Y, Liu J, Shang J. Luteolin inhibits ROS-activated MAPK pathway in myocardial ischemia/reperfusion injury. Life Sci. 2015 Feb 1;122:15-25.

155. Jiang H, Xia Q, Xin S, Lun Y, Song J, Tang D, Liu X, Ren J, Duan Z, Zhang J. Abnormal Epigenetic Modifications in Peripheral T Cells from Patients with Abdominal Aortic Aneurysm AreCorrelated with Disease Development. J Vasc Res. 2015;52(6):404-13.

156. Liu J, Tang X, Wang Y, Zang Y, Zhou B.A Zostera marina manganese superoxide dismutase gene involved in the responses to temperature stress.Gene. 2016 Jan 10;575(2 Pt 3):718-24.

157. Wu ZB, Cai L, Lin SJ, Leng ZG, Guo YH, Yang WL, Chu YW, Yang SH, Zhao WG. Heat Shock Protein 47 Promotes Glioma Angiogenesis. Brain Pathol. 2016 Jan;26(1):31-42.

158. Yuan Y, Li D, Li H, Wang L, Tian G, Dong Y. YAP overexpression promotes the epithelial-mesenchymal transition and chemoresistance in pancreatic cancer cells. Mol Med Rep. 2016 Jan;13(1):237-42.

159. Cheng S, Liang X, Wang Y, Jiang Z, Liu Y, Hou W, Li S, Zhang J, Wang Z. The circadian Clock gene regulates acrosin activity of sperm through serine protease inhibitor A3K. Exp Biol Med (Maywood). 2016 Jan; 241(2):205-15.

160. Geng F, Huang X, Ma M. Hen Egg White Ovomacroglobulin Promotes Fibroblast Migration via Mediating Cell Adhesion and Cytoskeleton. J Sci Food Agric. 2016 Jul;96(9):3188-94.

161. Gao F, Zhang LH, Su TF, Li L, Zhou R, Peng M, Wu CH, Yuan XC, Sun N, Meng XF, Tian B, Shi J, Pan HL, Li M. Signaling Mechanism of Cannabinoid Receptor-2 Activation-Induced β-Endorphin Release. Mol Neurobiol. 2016 Aug;53(6):3616-25.

162. Liu L, Wang D, Wang J, Wang S. The Nitric Oxide Prodrug JS-K Induces Ca2+ -Mediated Apoptosis in Human Hepatocellular Carcinoma HepG2 Cells. J Biochem Mol Toxicol. 2016 Apr;30(4):192-9.

163. Wu K, Guo C, Lu X, Wu X, Pan H, Su M. Impact of perinatal exposure to acetaminophen on hepatocellular metabolic function in offspring. Am J Transl Res. 2016 Dec 15;8(12):5646-5652.

164. Wang D, Wang Y, Xu S, Wang F, Wang B, Han K, Sun D, Li L. Epigallocatechin-3-gallate Protects against Hydrogen Peroxide-Induced Inhibition of OsteogenicDifferentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells. Stem Cells Int. 2016;2016:7532798.

165. Liang Y, Ji J, Lin Y, He Y, Liu J. The Ganglioside GM-1 Inhibits Bupivacaine-Induced Neurotoxicity in Mouse Neuroblastoma Neuro2a Cells. Cell Biochem Funct. 2016 Aug;34(6):455-62.

166. Zhou Y, Yang Q, Xu H, Zhang J, Deng H, Gao H, Yang J, Zhao D, Liu F. miRNA-221-3p Enhances the Secretion of Interleukin-4 in Mast Cells through the Phosphatase and TensinHomolog/p38/Nuclear Factor-kappaB Pathway. PLoS One. 2016 Feb 22;11(2):e0148821.

167. Ge H, Yu A, Chen J, Yuan J, Yin Y, Duanmu W, Tan L, Yang Y, Lan C, Chen W, Feng H, Hu R. Poly-L-ornithine enhances migration of neural stem/progenitor cells via promoting α-Actinin 4 binding toactin filaments. Sci Rep. 2016 Nov 22;6:37681.

168. Dan Yue1, Zhang Y2, Cheng L1, Ma J1, Xi Y1, Yang L3, Su C1, Shao B1, Huang A4, Xiang R5, Cheng P1. Hepatitis B virus X protein (HBx)-induced abnormalities of nucleic acid metabolism revealed by (1)H-NMR-based metabonomics. Sci Rep. 2016 Apr 14;6:24430.

169. Kang X, Wang J, Jiao Y, Tang P, Song L, Xiong D, Yin Y, Pan Z, Jiao X. Expression of recombinant Newcastle disease virus F protein in Pichia pastoris and its immunogenicityusing flagellin as the adjuvant. Protein Expr Purif. 2016 Dec;128:73-80.

170. Guo C, Yang L, Luo J, Zhang C, Xia Y, Ma T, Kong L. Sophoraflavanone G from Sophora alopecuroides inhibits lipopolysaccharide-induced inflammation inRAW264.7 cells by targeting PI3K/Akt, JAK/STAT and Nrf2/HO-1 pathways. Int Immunopharmacol. 2016 Sep;38:349-56.

171. Li L, Xiao L, Hou Y, He Q, Zhu J, Li Y, Wu J, Zhao J, Yu S, Zhao Y. Sestrin2 Silencing Exacerbates Cerebral Ischemia/Reperfusion Injury by Decreasing MitochondrialBiogenesis through the AMPK/PGC-1α Pathway in Rats. Sci Rep. 2016 Jul 25;6:30272.

172. Yin J, Li H, Meng C, Chen D, Chen Z, Wang Y, Wang Z, Chen G. Inhibitory effects of omega-3 fatty acids on early brain injury after subarachnoid hemorrhage in rats:Possible involvement of G protein-coupled receptor 120/β-arrestin2/TGF-β activated kinase-1 bindingprotein-1 signaling pathway. Int J Biochem Cell Biol. 2016 Jun;75:11-22.

173. Wu Y, Zhao D, Zhuang J, Zhang F, Xu C. Caspase-8 and Caspase-9 Functioned Differently at Different Stages of the Cyclic Stretch-InducedApoptosis in Human Periodontal Ligament Cells. PLoS One. 2016 Dec 12;11(12):e0168268.

174. Zhang L, Zhao X, Wang F, Lin Q, Wang W. Effects of Morinda officinalis Polysaccharide on Experimental Varicocele Rats. Evid Based Complement Alternat Med. 2016;2016:5365291.

175. Hu YB, Zou Y, Huang Y, Zhang YF, Lourenco GF, Chen SD, Halliday GM, Wang G, Ren RJ. ROCK1 Is Associated with Alzheimer's Disease-Specific Plaques, as well as Enhances AutophagosomeFormation But not Autophagic Aβ Clearance. Front Cell Neurosci. 2016 Nov 2;10:253.

176. Hu YB, Zou Y, Huang Y, Zhang YF, Lourenco GF, Chen SD, Halliday GM, Wang G, Ren RJ. ROCK1 Is Associated with Alzheimer's Disease-Specific Plaques, as well as Enhances AutophagosomeFormation But not Autophagic Aβ Clearance. Front Cell Neurosci. 2016 Nov 2;10:253.

177. Gao F, Zhang LH, Su TF, Li L, Zhou R, Peng M, Wu CH, Yuan XC, Sun N, Meng XF, Tian B, Shi J, Pan HL, Li M. Signaling Mechanism of Cannabinoid Receptor-2 Activation-Induced β-Endorphin Release. Mol Neurobiol. 2016 Aug;53(6):3616-25.

178. Yan Z, Xingfen W, Wei R, Jun Y, Zhiying M. Island Cotton Enhanced Disease Susceptibility 1 Gene Encoding a Lipase-Like Protein Plays a Crucial Role in Response to Verticillium dahliae by Regulating the SA Level and H2O2 Accumulation. Front Plant Sci. 2016 Dec 15;7:1830.

179. Zhou L, Jiang L, Xu M, Liu Q, Gao N, Li P, Liu EH. Miltirone exhibits antileukemic activity by ROS-mediated endoplasmic reticulum stress and mitochondrialdysfunction pathways. Sci Rep. 2016 Feb 5;6:20585.

180. Shi H, Xu J, Zhao R, Wu H, Gu L, Chen Y. FGF2 regulates proliferation, migration, and invasion of ECA109 cells through PI3K/Akt signalling pathwayin vitro. Cell Biol Int. 2016 May;40(5):524-33.

181. Liu J, Tang X, Wang Y, Zang Y, Zhou B. A Zostera marina manganese superoxide dismutase gene involved in the responses to temperature stress. Gene. 2016 Jan 10;575(2 Pt 3):718-24.

182. Shi Z, Wu D, Tang R, Li X, Chen R, Xue S, Zhang C, Sun X. Silencing of HMGA2 promotes apoptosis and inhibits migration and invasion of prostate cancer cells. J Biosci. 2016 Jun;41(2):229-36.

183. Zhu Y, Cui H, Xia Y, Gan H. RIPK3-Mediated Necroptosis and Apoptosis Contributes to Renal Tubular Cell Progressive Loss andChronic Kidney Disease Progression in Rats. PLoS One. 2016 Jun 9;11(6):e0156729.

184. Shen X, Ma L, Dong W, Wu Q, Gao Y, Luo C, Zhang M, Chen X, Tao L. Autophagy regulates intracerebral hemorrhage induced neural damage via apoptosis and NF-κB pathway. Neurochem Int. 2016 Jun;96:100-12.

185. Ma J, Wang Z, Liu C, Shen H, Chen Z, Yin J, Zuo G, Duan X, Li H, Chen G. Pramipexole-Induced Hypothermia Reduces Early Brain Injury via PI3K/AKT/GSK3β pathway inSubarachnoid Hemorrhage rats. Sci Rep. 2016 Mar 30;6:23817.

186. Xue F, Zhu L, Meng QW, Wang L, Chen XS, Zhao YB, Xing Y, Wang XY, Cai L. FAT10 is associated with the malignancy and drug resistance of non-small-cell lung cancer. Onco Targets Ther. 2016 Jul 19;9:4397-409.

187. Wang Y, Mei X, Yuan J, Lai X, Xu D. Taurine zinc solid dispersions enhance bile-incubated L02 cell viability and improve liver function byinhibiting ERK2 and JNK phosphorylation during cholestasis. Toxicology. 2016 Jul 29;366-367:10-9.

188. Gong Y, Li H, Li Y. Effects of Bacillus subtilis on Epithelial Tight Junctions of Mice with Inflammatory Bowel Disease. J Interferon Cytokine Res. 2016 Feb;36(2):75-85.

189. Zhang P, Li Y, Du Y, Li G, Wang L, Zhou F. Resveratrol Ameliorated Vascular Calcification by Regulating Sirt-1 and Nrf2. Transplant Proc. 2016 Dec;48(10):3378-3386.

190. Ding W, Tong Y, Zhang X, Pan M, Chen S. Study of Arsenic Sulfide in Solid Tumor Cells Reveals Regulation of Nuclear Factors of Activated T-cells byPML and p53. Sci Rep. 2016 Jan 22;6:19793.

191. Yuan Y, Li D, Li H, Wang L, Tian G, Dong Y. YAP overexpression promotes the epithelial-mesenchymal transition and chemoresistance in pancreaticcancer cells. Mol Med Rep. 2016 Jan;13(1):237-42.

192. Xie X, Han M, Zhang L, Liu L, Gu Z, Yang M, Yang H. Effects of Mycobacterium tuberculosis ESAT6-CFP10 Protein on Cell Viability and Production of Nitric Oxidein Alveolar Macrophages. Jundishapur J Microbiol. 2016 May 30;9(6):e33264.

193. Cui Y, Duan X, Li H, Dang B, Yin J, Wang Y, Gao A, Yu Z, Chen G. Hydrogen Sulfide Ameliorates Early Brain Injury Following Subarachnoid Hemorrhage in Rats. Mol Neurobiol. 2016 Aug;53(6):3646-57.

194. Wang W, Wang X, Chen L, Zhang Y, Xu Z, Liu J, Jiang G, Li J, Zhang X, Wang K, Wang J, Chen G, Luo J. The microRNA miR-124 suppresses seizure activity and regulates CREB1 activity. Expert Rev Mol Med. 2016 Mar 21;18:e4.

195. Shen SH, Yu N, Xu H, Liu XY, Tan GW, Wang ZX. Inhibition of Human Glioma Cell Proliferation Caused by Knockdown of Utrophin Using a Lentivirus-Mediated System. Cancer Biother Radiopharm. 2016 May;31(4):133-8.

196. Li Y, Zhu J, Liu Y, Chen X, Lei S, Li L, Jiang B, Tan L, Yu S, Zhao Y. Glycogen Synthase Kinase 3β Influences Injury Following Cerebral Ischemia/Reperfusion in Rats. Int J Biol Sci. 2016 Feb 29;12(5):518-31.

197. Ye MH, Nan YL, Ding MM, Hu JB, Liu Q, Wei WH, Yang SM. Effects of dietary tannic acid on the growth, hepatic gene expression, and antioxidant enzyme activity inBrandt's voles (Microtus brandti). Comp Biochem Physiol B Biochem Mol Biol. 2016 Jun-Jul;196-197:19-26.

198. Liu Z, Ma C, Shen J, Wang D, Hao J, Hu Z. SDF 1/CXCR4 axis induces apoptosis of human degenerative nucleus pulposus cells via the NF κBpathway. Mol Med Rep. 2016 Jul;14(1):783-9.

199. Wen Z, Wu C, Cui F, Zhang H, Mei B, Shen M. The role of osmolality in saline fluid nebulization after tracheostomy: time for changing? BMC Pulm Med. 2016 Dec 9;16(1):179.

200. Bi Z, Zhu Y, Chen Z, Li C, Wang Y, Wang G, Liu G. Induction of a robust immunity response against novel duck reovirus in ducklings using a subunit vaccineof sigma C protein. Sci Rep. 2016 Dec 15;6:39092.

201. Sun L, Dong Y, Zhao J, Yin Y, Zheng Y. The CLC-2 Chloride Channel Modulates ECM Synthesis, Differentiation, and Migration of HumanConjunctival Fibroblasts via the PI3K/Akt Signaling Pathway. Int J Mol Sci. 2016 Jun 9;17(6). pii: E910.

202. Shen M, Fan D, Zang Y, Chen Y, Zhu K, Cai Z, Liu Y, Sun X, Liu J, Gong J. Neuroprotective effects of methane-rich saline on experimental acute carbon monoxide toxicity. J Neurol Sci. 2016 Oct 15;369:361-7.

203. Li RJ, Gao CY, Guo C, Zhou MM, Luo J, Kong LY. The Anti-inflammatory Activities of Two Major Withanolides from Physalis minima Via Acting on NF-κB,STAT3, and HO-1 in LPS-Stimulated RAW264.7 Cells. Inflammation. 2016 Dec 2.[Epub ahead of print].

204. Shang J, Yao Y, Fan X, Shangguan L, Li J, Liu H, Zhou Y. miR-29c-3p promotes senescence of human mesenchymal stem cells by targeting CNOT6 through p53-p21and p16-pRB pathways. Biochim Biophys Acta. 2016 Apr;1863(4):520-32.

205. Song Zh, Tong G, Xiao K, Jiao le F, Ke Yl, Hu Ch. L-cysteine protects intestinal integrity, attenuates intestinal inflammation and oxidant stress, andmodulates NF-κB and Nrf2 pathways in weaned piglets after LPS challenge. Innate Immun. 2016 Apr;22(3):152-61.

206. Ma WY, Jia K, Zhang Y. IL-17 promotes keratinocyte proliferation via the downregulation of C/EBPα. Exp Ther Med. 2016 Feb;11(2):631-636.

207. Chen Y, Jiang T, Shi L, He K. hcrcn81 promotes cell proliferation through Wnt signaling pathway in colorectal cancer. Med Oncol. 2016 Jan;33(1):3.

208. Yan T, Yu X, Sun X, Meng D, Jia JM. A new steroidal saponin, furotrilliumoside from Trillium tschonoskii inhibits lipopolysaccharide-inducedinflammation in Raw264.7 cells by targeting PI3K/Akt, MARK and Nrf2/HO-1 pathways Fitoterapia. 2016 Dec;115:37-45.

209. He M, Wang M, Huang Y, Peng W, Zheng Z, Xia N, Xu J, Tian D. The ORF3 Protein of Genotype 1 Hepatitis E Virus Suppresses TLR3-induced NF-κB Signaling via TRADDand RIP1. Sci Rep. 2016 Jun 8;6:27597.

210. Ma L, Shen X, Gao Y, Wu Q, Ji M, Luo C, Zhang M, Wang T, Chen X, Tao L. Blocking B7-1/CD28 Pathway Diminished Long-Range Brain Damage by Regulating the Immune andInflammatory Responses in a Mouse Model of Intracerebral Hemorrhage. Neurochem Res. 2016 Jul;41(7):1673-83.

211. Xu Y, Xiang J, Zhao H, Liang H, Huang J, Li Y, Pan J, Zhou H, Zhang X, Wang JH, Liu Z, Wang J. Human amniotic fluid stem cells labeled with up-conversion nanoparticles for imaging-monitored repairingof acute lung injury. Biomaterials. 2016 Sep;100:91-100.

212. Ma Y, Wang H, Yan D, Wei Y, Cao Y, Yi P, Zhang H, Deng Z, Dai J, Liu X, Luo J, Zhang Z, Sun S, Guo H. Magnetic Resonance Imaging Revealed Splenic Targeting of Canine Parvovirus Capsid Protein VP2. Sci Rep. 2016 Mar 21;6:23392.

213. Cai L, Leng ZG, Guo YH, Lin SJ, Wu ZR, Su ZP, Lu JL, Wei LF, Zhuge QC, Jin K, Wu ZB. Dopamine agonist resistance-related endocan promotes angiogenesis and cells viability of prolactinomas. Endocrine. 2016 Jun;52(3):641-51.

214. Guo C, Yang L, Wan CX, Xia YZ, Zhang C, Chen MH, Wang ZD, Li ZR, Li XM, Geng YD, Kong LY. Anti-neuroinflammatory effect of Sophoraflavanone G from Sophora alopecuroides in LPS-activated BV2 microglia by MAPK, JAK/STAT and Nrf2/HO-1 signaling pathways. Phytomedicine. 2016 Dec 1;23(13):1629-1637.

215. Tang Y, Lu S, Gan X, Liu F, Zhang Y, Luo C, Pan Y, Hong L, Gan R. Expression of LMP and EBNA genes in Epstein-Barr virus-associated lymphomas in Hu-PBL/SCID mice. Oncol Rep. 2016 Feb;35(2):905-11.

216. Sheng Y, Wang H, Liu D, Zhang C, Deng Y, Yang F, Zhang T, Zhang C. Methylation of tumor suppressor gene CDH13 and SHP1 promoters and their epigenetic regulation by theUHRF1/PRMT5 complex in endometrial carcinoma. Gynecol Oncol. 2016 Jan;140(1):145-51.

217. Liu Y, Zhi D, Li M, Liu D, Wang X, Wu Z, Zhang Z, Fei D, Li Y, Zhu H, Xie Q, Yang H, Li H. Shengmai Formula suppressed over-activated Ras/MAPK pathway in C. elegans by opening mitochondrial permeability transition pore via regulating cyclophilin D. Sci Rep. 2016 Dec 16;6:38934.

218. He P, Zhang A, Zhou S, Zhang F, Linhardt RJ, Sun P. Structural elucidation of polysaccharide containing 3-O-methyl galactose from fruiting bodies of Pleurotuscitrinopileatus. Carbohydr Res. 2016 Nov 3;434:72-76.

219. Chen Z, Liu S, Sun W, Chen L, Yoo D, Li F, Ren S, Guo L, Cong X, Li J, Zhou S, Wu J, Du Y, Wang J. Nuclear export signal of PRRSV NSP1α is necessary for type I IFN inhibition. Virology. 2016 Dec;499:278-287.

220. Kang L, Yang C, Yin H, Zhao K, Liu W, Hua W, Wang K, Song Y, Tu J, Li S, Luo R, Zhang Y. MicroRNA-15b silencing inhibits IL-1β-induced extracellular matrix degradation by targeting SMAD3 inhuman nucleus pulposus cells. Biotechnol Lett. 2016 Dec 30. doi: 10.1007/s10529-016-2280-3. [Epub ahead of print]

221. Zhang C, Wang Z, Zhao J, Li Q, Huang C, Zhu L, Lu D. Neuroprotective Effect of Lutein on NMDA-Induced Retinal Ganglion Cell Injury in Rat Retina. Cell Mol Neurobiol. 2016 May;36(4):531-40.

222. Yu J, Qiu Y, Yang J, Bian S, Chen G, Deng M, Kang H, Huang L. DNMT1-PPARγ pathway in macrophages regulates chronic inflammation and atherosclerosis developmentin mice. Sci Rep. 2016 Aug 17;6:30053.

223. Ye H, Wu Q, Guo M, Wu K, Lv Y, Yu F, Liu Y, Gao X, Zhu Y, Cui L, Liang N, Yun T, Li L, Zheng X. Growth inhibition effects of ent-11α-hydroxy-15-oxo-kaur-16-en-19-oic-acid on colorectal carcinoma cellsand colon carcinoma-bearing mice. Mol Med Rep. 2016 Apr;13(4):3525-32.

224. Tian W, Xiong J, Zhu S, Xu D, Shen H, Deng Y. mTOR signaling pathway is inhibited downstream of the cyclophilin D-mediated mitochondrial permeabilitytransition in honokiol-triggered regulated necrosis. Mol Med Rep. 2016 Apr;13(4):3227-35.

225. Yan X, Liu J, Wu H, Liu Y, Zheng S, Zhang C, Yang C. Impact of miR-208 and its Target Gene Nemo-Like Kinase on the Protective Effect of Ginsenoside Rb1 inHypoxia/Ischemia Injuried Cardiomyocytes. Cell Physiol Biochem. 2016;39(3):1187-95.

226. Zhu MY, Lin D, Liu J, Mo HY. Artesunate interfere in modulation of Foxp3

expression in synovial cells in collagen-induced arthritis rats. Chin J Integr Med. 2016 Jun 28. [Epub ahead of print]

227. Wang C, Duan X, Sun X, Liu Z, Sun P, Yang X, Sun H, Liu K, Meng Q. Protective effects of glycyrrhizic acid from edible botanical glycyrrhiza glabra against non-alcoholicsteatohepatitis in mice. Food Funct. 2016 Sep 14;7(9):3716-23.

228. Gao Y, Ma L, Luo CL, Wang T, Zhang MY, Shen X, Meng HH, Ji MM, Wang ZF, Chen XP, Tao LY. IL-33 Exerts Neuroprotective Effect in Mice Intracerebral Hemorrhage Model Through SuppressingInflammation/Apoptotic/Autophagic Pathway. Mol Neurobiol. 2016 Jul 12. [Epub ahead of print]

229. Gao H1, Deng H2, Xu H2, Yang Q2, Zhou Y2, Zhang J2, Zhao D2, Liu F2. MicroRNA-223 promotes mast cell apoptosis by targeting the insulin-like growth factor 1 receptor. Exp Ther Med. 2016 Jun;11(6):2171-2176.

230. Zhang B, Qiangba Y, Shang P, Lu Y, Yang Y, Wang Z, Zhang H. Gene expression of vascular endothelial growth factor A and hypoxic adaptation in Tibetan pig. J Anim Sci Biotechnol. 2016 Apr 2;7:21.

231. Wu X, Qi X, Lu Y, Lin C, Yuan Y, Zhu Q, Yin Q, Li W, Li Y, Bian H. Liguzinediol protects against cardiac fibrosis in rats in vivo and in vitro. Biomed Pharmacother. 2016 May;80:260-7.

232. Zhang H, Song Y, Li Z, Zhang T, Zeng L. Evaluation of breviscapine on prevention of experimentally induced abdominal adhesions in rats. Am J Surg. 2016 Jun;211(6):1143-52.

233. Wang C, Zhang Y, Zhan Y, Luo C, Li Y, Qiu D, Mu D, Duan H, Zhou K, Hua Y. The effect of 17α-ethynylestradiol induced intrahepatic cholestasis of pregnancy on placental P-glycoprotein in mice: Implications in the individualized transplacental digoxin treatment for fetal heartfailure. Placenta. 2016 Aug;44:91-7.

234. Kang X, Yang Y, Jiao Y, Song H, Song L, Xiong D, Wu L, Pan Z, Jiao X. HA1-2-fljB Vaccine Induces Immune Responses against Pandemic Swine-Origin H1N1 Influenza Virus inMice. J Mol Microbiol Biotechnol. 2016;26(6):422-432.

235. Zhang T, Wu Y, Fang Z, Yan Q, Zhang S, Sun R, Khaliq J, Li Y. Low expression of RBMS3 and SFRP1 are associated with poor prognosis in patients with gastric cancer. Am J Cancer Res. 2016 Nov 1;6(11):2679-2689.

236. Meng Q, Shao L, Luo X, Mu Y, Xu W, Gao L, Xu H, Cui Y. Expressions of VEGF-A and VEGFR-2 in placentae from GDM pregnancies. Reprod Biol Endocrinol. 2016 Sep 20;14(1):61.

237. Wu F, Shi W, Zhou G, Yao H, Xu C, Xiao W, Wu J, Wu X. Ginkgolide B functions as a determinant constituent of Ginkgolides in alleviating lipopolysaccharide-induced lung injury. Biomed Pharmacother. 2016 Jul;81:71-8.

238. Zhang Q, Zhao Y, Xu Y, Chen Z, Liu N, Ke C, Liu B, Wu W. Sodium ferulate and n-butylidenephthalate combined with bone marrow stromal cells (BMSCs) improve thetherapeutic effects of angiogenesis and neurogenesis after rat focal cerebral ischemia. J Transl Med. 2016 Jul 28;14(1):223.

239. Zhang K, Zhu X, Lu Y. Effect of Mild Heating on Human Lens Epithelial Cells: A Possible Model of Lens Aging. Sci Rep. 2016 Oct 11;6:33917.

240. Zhang B, Shang P, Qiangba Y, Xu A, Wang Z, Zhang H. The association of NR1H3 gene with lipid deposition in the pig. Lipids Health Dis. 2016 May 26;15:99.

241. Huang Y, Zhou M, Li C, Chen Y, Fang W, Xu G, Shi X. Picroside II protects against sepsis via suppressing inflammation in mice. Am J Transl Res. 2016 Dec 15;8(12):5519-5531.

242. Yang J, Ma Q, Zhang Y, Wang X, Zhang G, Ma Z. Molecular cloning and functional analysis of GbRVd, a gene in Gossypium barbadense that plays animportant role in conferring resistance to Verticillium wilt. Gene. 2016 Jan 10;575(2 Pt 3):687-94.

243. Jiang X, Chen HQ, Cui ZH, Yin L, Zhang WL, Liu WB, Han F, Ao L, Cao J, Liu JY. Low-dose and combined effects of oral exposure to bisphenol A and diethylstilbestrol on the malereproductive system in adult Sprague-Dawley rats. Environ Toxicol Pharmacol. 2016 Apr;43:94-102.

244. Deheng C, Kailiang Z, Weidong W, Haiming J, Daoliang X, Ningyu C, Huazi X1. Salidroside Promotes Random Skin Flap Survival in Rats by Enhancing Angiogenesis and InhibitingApoptosis. J Reconstr Microsurg. 2016 Oct;32(8):580-586.

245. Cao B, Liu N, Wang W. High glucose prevents osteogenic differentiation of mesenchymal stem cells via lncRNA AK028326/CXCL13pathway. Biomed Pharmacother. 2016 Dec;84:544-551.

246. Su L, Zhang Y, He K, Wei S, Pei H, Wang Q, Yang D, Yang Y. Activation of transient receptor potential vanilloid 1 accelerates re-endothelialization and inhibits neointimalformation after vascular injury. J Vasc Surg. 2017 Jan;65(1):197-205.e2.

247. Ji J, Zeng XN, Cao LL, Zhang L, Zhao Z, Yang DD, Sun XL. PPARβ/δ activation protects against corticosterone-induced ER stress in astrocytes by inhibiting the CpGhypermethylation of microRNA-181a. Neuropharmacology. 2017 Feb;113(Pt A):396-406.

248. Cui L, Li Z, Chang X, Cong G, Hao L. Quercetin attenuates vascular calcification by inhibiting oxidative stress and mitochondrial fission. Vascul Pharmacol. 2017 Jan;88:21-29.

249. Li SW, Sun X, He Y, Guo Y, Zhao HJ, Hou ZJ, Xing MW. Assessment of arsenic trioxide in the heart of Gallus gallus: alterations of oxidative damage parameters,inflammatory cytokines, and cardiac enzymes. Environ Sci Pollut Res Int. 2017 Jan 4.

250. Mehmood T, Maryam A, Zhang H, Li Y, Khan M, Ma T. Deoxyelephantopin induces apoptosis in HepG2 cells via oxidative stress, NF-κB inhibition andmitochondrial dysfunction. Biofactors. 2017 Jan 2;43(1):63-72.

251. Duan H, Wang C, Zhou K, Wang T, Li Y, Qiu D, Li Q, Zhang Y, Hua Y7. The effect of histone deacetylase inhibition on the expression of P-glycoprotein in human placentaltrophoblast cell lines. Placenta. 2017 Jan;49:37-47.

252. Wang C, Wang Z, Zhou J, Liu S, Wu C, Huang C, Ding Y. TUC.338 promotes invasion and metastasis in colorectal cancer. Int J Cancer. 2017 Mar 15;140(6):1457-1464.

253. Zhao P, Guo Y, Zhang W, Chai H, Xing H, Xing M. Neurotoxicity induced by arsenic in Gallus Gallus: Regulation of oxidative stress and heat shock proteinresponse. Chemosphere. 2017 Jan;166:238-245.

254. Yang H, Gu ZT, Li L, Maegele M, Zhou BY, Li F, Zhao M, Zhao KS. SIRT1 plays a neuroprotective role in traumatic brain injury in rats via inhibiting the p38 MAPK pathway. Acta Pharmacol Sin. 2017 Feb;38(2):168-181.

255. Wang X, Ge QM, Bian F, Dong Y, Huang CM. Inhibition of TLR4 protects rat islets against lipopolysaccharide-induced dysfunction. Mol Med Rep. 2017 Feb;15(2):805-812.

256. He PF, He L, Zhang AQ, Wang XL, Qu L, Sun PL. Structure and chain conformation of a neutral polysaccharide from sclerotia of Polyporus umbellatus. Carbohydr Polym. 2017 Jan 2;155:61-67.

257. He L, Xiao D, Feng J, Yao C, Tang L. Induction of apoptosis of liver cancer cells by nanosecond pulsed electric fields (nsPEFs). Med Oncol. 2017 Feb;34(2):24.

258. Zhang H, Zhai L, Wang T, Li S, Guo Y. Picroside II Exerts a Neuroprotective Effect by Inhibiting the Mitochondria Cytochrome C SignalPathwayFollowing Ischemia Reperfusion Injury in Rats. J Mol Neurosci. 2017 Feb;61(2):267-278.

Note: *For more product citations, please refer to Beyotime website of this product.*

Version 2022.08.15