

## Invent Biotechnologies, Inc. – Publication

### Minute™ Total Protein Extraction Kit for Animal Cultured Cells/Tissues (SD-001/SN-002)

1. Wang M-J et al (2014). Reversal of hepatocyte senescence after continuous in vitro cell proliferation. *Hepatology* 60:349-361.
2. Xiang D. et al. (2014). Non-viral FoxM1 gene delivery to hepatocytes enhances liver repopulation. *Cell Death and Disease* 5, e1252; doi:10.1038/cddis.2014.230.
3. Ishikawa H. et al. (2014) L-Carnitine Prevents Progression of Non-Alcoholic Steatohepatitis in a Mouse Model with Upregulation of Mitochondrial Pathway. *PLoS ONE* 9(7): e100627. doi:10.1371/journal.pone.0100627.
4. Kaya M.K. et al. (2015) Effects of lapatinib and trastuzumab on vascular endothelial growth factor in experimental corneal neovascularization1. *Clinical and Experimental Ophthalmology*. doi: 10.1111/ceo.12500.
5. M. Cuchra, et al. (2015). The role of base excision repair in the development of primary open angle glaucoma in the Polish population, *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* (2015), <http://dx.doi.org/10.1016/j.mrfmmm.2015.05.003>
6. Nardi JB., et al. (2016). Segmental pairs of giant insect cells discharge presumptive immune proteins at each larval molt. *Developmental Biology*. <http://dx.doi.org/10.1016/j.ydbio.2016.03.029>.
7. Cho S-M et al (2016). Comparison of hemocytic carbonic anhydrase activity of bivalves. *Korean J. Malacol.* 32(1): 63-65.
8. Morimoto, K. et al. (2016). Intestinal bile acid composition modulates prohormone convertase 1<sup>β</sup> (PC1/3) expression and consequent GLP-1 production in male mice. *Endocrinology*, 157(3), 1071-1081. [10.1210/en.2015-1551](https://doi.org/10.1210/en.2015-1551)
9. Misra, S. K., Ye, M., Ostadhossein, F., & Pan, D. (2016). Pro-haloacetate Nanoparticles for Efficient Cancer Therapy via Pyruvate Dehydrogenase Kinase Modulation. *Scientific Reports*, 6, 28196.
10. Zhang, Li, et al. (2016), CHKA mediates the poor prognosis of lung adenocarcinoma and acts as a prognostic indicator. *Oncology Letters*. DOI: 10.3892/ol.2016.4810
11. Hamauchi, S., Shichinohe, H., Uchino, H., Yamaguchi, S., Nakayama, N., Kazumata, K., & Era, T. (2016). Cellular Functions and Gene and Protein Expression Profiles in Endothelial Cells Derived from Moyamoya Disease-Specific iPS Cells. *PLOS ONE*, 11(9), e0163561.
12. Bashir, K. M. I., & Cho, M. G. (2016). The Effect of Kanamycin and Tetracycline on Growth and Photosynthetic Activity of Two Chlorophyte Algae. *BioMed Research International*, 2016.
13. K. Takahashi, et. al., Exercise combined with low-level GABAA receptor inhibition up-regulates the expression of neurotrophins in the motor cortex, *Neurosci. Lett.*(2017), <http://dx.doi.org/10.1016/j.neulet.2016.10.052>.
14. Li Q,(2016). Pitfalls of Protein Extraction by RIPA Buffer. *BioTechniques* 61:327 .doi 10.2144/000114486
15. Szymański,P.et al.(2017). Novel tetrahydroacridine and cyclopentaquinoline derivatives with fluorobenzoic acid moiety induce cell cycle arrest and apoptosis in lung cancer cells by activation of DNA damage signaling. *Tumor Biology*. March 2017: 1 –13.DOI:10.1177/1010428317695011

16. KAMPERT T.et al.(2017). Phenotypically Screened Carbon Nanoparticles for Enhanced Combinatorial Therapy in Triple Negative Breast Cancer. *Cellular and Molecular Bioengineering* (2017) DOI: 10.1007/s12195-017-0490-y
17. Zhang, C., Hong, F. F., Wang, C. C., Li, L., Chen, J. L., Liu, F., ... & Wang, J. F..TRIB3 inhibits proliferation and promotes osteogenesis in hBMSCs by regulating the ERK1/2 signaling pathway.scientific reports | 7: 10342 | DOI:10.1038/s41598-017-10601-w
18. Takahiro Inoue, Shuta Ninuma, Masataka Hayashi, Akane Okuda, Tadayoshi Asaka & Hiroshi Maejima (2017): Effects of long-term exercise and low-level inhibition of GABAergic synapses on motor control and the expression of BDNF in the motor related cortex,*Neurological Research*, DOI: 10.1080/01616412.2017.1382801
19. Yamaguchi, K., Shindoh, C., & Miura, M. (2017). Diaphragm Muscle Contraction Decrease in a Mouse Model of Ovalbumin-Induced Allergic Airway Inflammation. *J Allergy Ther*, 8(265), 2.
20. Maejima, H., Kanemura, N., Kokubun, T., Murata, K., & Takayanagi, K. (2017). Exercise enhances cognitive function and neurotrophin expression in the hippocampus accompanied by changes in epigenetic programming in senescence-accelerated mice. *Neuroscience Letters*.
21. Santosh K Misra, Arun De and Dipanjan Pan(2017).Targeted Delivery of STAT-3 Modulator to Breast Cancer Stem Like Cells Down-regulates a Series of Stem-ness Genes. *Molecular Cancer Therapeutics* DOI: 10.1158/1535-7163.MCT-17-0070
22. P Liao, D Yang, D Liu, Y Zheng (2017) .GLP-1 and Ghrelin Attenuate High Glucose/High Lipid-Induced Apoptosis and Senescence of Human Microvascular Endothelial Cells. *Cell Physiol Biochem* 2017;44:1842 – 1855 doi.org/10.1159/000485820
23. Qingling Guo, Dan Wua, Chenling Fan, Shiqiao Peng, Haixia Guan, Zhongyan Shan,Weiping Teng(2017).Iodine excess did not affect the global DNA methylation status and DNA methyltransferase expression in T and B lymphocytes from NOD.H-2h4 and Kunming mice.*Int Immunopharmacol*. 2017 Dec 15;55:151-157. doi: 10.1016/j.intimp.2017.12.018. [Epub ahead of print]
24. Meilan Xue, Xinqiang Ji, Hui Liang, Ying Liu, Bing Wang, Lingling Sun and Weiwei Li (2018) .The effect of fucoidan on intestinal flora and intestinal barrier function in rats bearing breast cancer.*Food & Function*.doi.org/10.1039/C7FO01652B
25. Xuewen Su Wenyan Tang Zuo Luan Yinxiang Yang Zhaoyan Wang Yu Zhang Qian Wang Lei Suo Zhen Huang Xiue Wang Haifeng Yuan(2018).Protective effect of miconazole on rat myelin sheaths following premature infant cerebral white matter injury.*Experimental and Therapeutic Medicine*.Published online on: January 8, 2018 doi.org/10.3892/etm.2018.5717
26. Jiangyue Zhao , Xinwei Wu , Danhong Wu , Yinhui Yu ,Yibo Yu ,JinsongWang, KeYao etal (2018) .Embryonic Surface Ectoderm-specific Mitofusin 2 Conditional Knockout Induces Congenital Cataracts in Mice. *Scientific REportS* | (2018) 8:1522 | DOI:10.1038/s41598-018-19849-2
27. Guan, X., Lu, Y., Wang, G., Gibson, P., Chen, F., Fang, K., ... & Yuan, Y. (2018). The Role of Regulatory T Cell in Nontypeable Haemophilus influenzae-Induced Acute Exacerbation of Chronic Obstructive Pulmonary Disease. *Mediators of Inflammation*, 2018.
28. Yin et al(2018).Roles of astrocytic connexin-43, hemichannels, and gap junctions in oxygen-glucose deprivation/reperfusion injury induced neuroinflammation and the possible regulatory mechanisms of salvianolic acid B and carbenoxolone.*Journal of Neuroinflammation* (2018) 15:97. doi.org/10.1186/s12974-018-1127-3.

29. J Lu, K Fang, S Wang, L Xiong, C Zhang, et al(2018).Anti-Inflammatory Effect of Columbianetin on Lipopolysaccharide-Stimulated Human Peripheral Blood Mononuclear Cells.Hindawi Mediators of Inflammation Volume 2018, Article ID 9191743, 8 pages .doi.org/10.1155/2018/9191743
30. XJ Li, L Yang, D Li, Y Zhu, Q Wang, W Li (2018).Pathogen-specific Binding soluble Down syndrome cell adhesion Molecule (Dscam) regulates Phagocytosis via Membrane-Bound Dscam in crab.- Frontiers in Immunology, doi: 10.3389/fimmu.2018.00801
31. Yifei Chen, Mengmeng Li, Yu Zhang, Mingxue Di, Weijia Chen, Xiaolin Liu, Fangpu Yu,Han Wang, Xi Zhen, Mei Zhang(2018).Traditional Chinese medication Tongxinluo attenuates apoptosis in ox-LDL-stimulated macrophages by enhancing Beclin-1-induced autophagy.doi.org/10.1016/j.bbrc.2018.03.094
32. Khawaja Muhammad Imran BashirMoo-Sang KimUlf StahlMan-Gi Cho(2018).Agrobacterium-mediated genetic transformation of Dictyosphaerium pulchellum for the expression of erythropoietin. Journal of Applied Phycology. doi.org/10.1007/s10811-018-1483-5
33. Wang et al(2018). HeThe extent of liver injury determines hepatocyte fate toward senescence or cancer.Cell Death and Disease.DOI 10.1038/s41419-018-0622-x.
34. Guo Q, Wu Y, Hou Y, Liu Y, Liu T, Zhang H, Fan C, Guan H, Li Y, Shan Z and Teng W (2018) Cytokine Secretion and Pyroptosis of Thyroid Follicular Cells Mediated by Enhanced NLRP3, NLRP1, NLRC4, and AIM2 Inflammasomes Are Associated With Autoimmune Thyroiditis. Front. Immunol. 9:1197. doi: 10.3389/fimmu.2018.01197
35. Maejima H, Ninuma S, Okuda A, Inoue T, Hayashi M (2018) . Exercise and low-level GABAA receptor inhibition modulate locomotor activity and the expression of BDNF accompanied by changes in epigenetic regulation in the hippocampus, Neuroscience Letters , <https://doi.org/10.1016/j.neulet.2018.07.009>
36. Qixia Jiang,etal(2018).Circadian locomotor output cycles kaput accelerates atherosclerotic plaque formation by upregulating plasminogen activator inhibitor-1 expression.Acta Biochimica et Biophysica Sinica, gmy087, <https://doi.org/10.1093/abbs/gmy087>.
37. Jin Zhang etal(2018).LGR5, a novel functional glioma stem cell marker, promotes EMT by activating the Wnt/ $\beta$ -catenin pathway and predicts poor survival of glioma patients. J Exp Clin Cancer Res. doi: 10.1186/s13046-018-0864-6.
38. Miaomiao Zhang et al (2018). Low level expression of the Mitochondrial Antiviral Signaling protein (MAVS) associated with long-term nonprogression in SIV-infected rhesus macaques. Virology. .doi.org/10.1186/s12985-018-1069-5.
39. Ying Liang et al (2018).Low expression of NCOA5 predicts poor prognosis in human cervical cancer and promotes proliferation, migration, and invasion of cervical cancer cell lines by regulating notch3 signaling pathway. J Cell Biochem. doi: 10.1002/jcb.27911.
40. XM Zhang etal (2018). Parasympathectomy increases resting secretion of the submandibular gland in minipigs in the long term. Journal of Cellular Physiology. DOI: 10.1002/jcp.27640.
41. M Ding etal (2018).Effect of NOS1 regulating ABCG2 expression on proliferation and apoptosis of cervical cancer cells.Oncology.doi.org/10.3892/ol.2018.9786.
42. Yuanyuan Fu et al (2019).Developmental Exposure to Di-(2-ethylhexyl) Phthalate Induces Cerebellar Granule Cell Apoptosis via the PI3K/AKT Signaling Pathway.Exp Neurobiol. Doi: 10.5607/en.2018.27.6.472

43. Wang, Z., Fang, K., Wang, G., Guan, X., Pang, Z., Guo, Y., ... & Wang, F. (2019). Protective effect of amygdalin on epithelial–mesenchymal transformation in experimental chronic obstructive pulmonary disease mice. *Phytotherapy Research*. DOI: 10.1002/ptr.6274.
44. Coskun, E., Tuna, G., Jaruga, P., Tona, A., Erdem, O., & Dizdaroglu, M. (2019). Identification and quantification of DNA repair protein poly (ADP ribose) polymerase 1 (PARP1) in human tissues and cultured cells by liquid chromatography/isotope-dilution tandem mass spectrometry. *DNA Repair*. doi.org/10.1016/j.dnarep.2019.01.008.
45. Li, K., Meng, Z., Jiang, L., Xia, C., Xu, K., Yuan, D., ... & Liu, S. (2019). CDKL1 promotes the chemoresistance of human oral squamous cell carcinoma cells to hydroxycamptothecin. *Molecular and Cellular Probes*. Doi.org/10.1016/j.mcp.2019.02.004.
46. Zhang, S. H., Liu, D. X., Wang, L., Li, Y. H., Wang, Y. H., Zhang, H., ... & Li, B. (2019). A CASPR1–ATP1B3 protein interaction modulates plasma membrane localization of Na<sup>+</sup>/K<sup>+</sup>-ATPase in brain microvascular endothelial cells. *Journal of Biological Chemistry*, jbc-RA118. Doi/10.1074/jbc.RA118.006263.
47. Wang, Y., Liu, C., & Hu, L. (2019). Cholesterol regulates cell proliferation and apoptosis of colorectal cancer by modulating miR-33a-PIM3 pathway. *Biochemical and Biophysical Research Communications*. Doi.org/10.1016/j.bbrc.2019.02.123
48. Zhang, J., Che, L., Sun, W., Shang, J., Hao, M., & Tian, M. (2019). Correlation of OGR1 with proliferation and apoptosis of breast cancer cells. *Oncology Letters*, 17(5), 4335-4340. DOI: 10.3892/ol.2019.10121
49. Zhang, H. L., Wang, P., Lu, M. Z., Zhang, S. D., & Zheng, L. (2019). c-Myc maintains the self-renewal and chemoresistance properties of colon cancer stem cells. *Oncology Letters*, 17(5), 4487-4493. DOI: 10.3892/ol.2019.10081
50. Zhu, Y., Shao, Y., Qu, X., Guo, J., Yang, J., Zhou, Z., & Wang, S. (2019). Sodium ferulate protects against influenza virus infection by activation of the TLR7/9-MyD88-IRF7 signaling pathway and inhibition of the NF-κB signaling pathway. *Biochemical and Biophysical Research Communications*. Doi.org/10.1016/j.bbrc.2019.03.113.
51. Misra, S. K., Wu, Z., Ostadhossain, F., Ye, M., Boateng, K., Schulten, K., ... & Pan, D. (2019). Pro-nifuroxazide Self-Assembly Leads to Triggerable Nanomedicine for Anti-Cancer Therapy. *ACS applied materials & interfaces*. doi: 10.1021/acsami.9b01343
52. Li, X., Inoue, T., Hayashi, M., & Maejima, H. (2019). Exercise enhances the expression of brain-derived neurotrophic factor in the hippocampus accompanied by epigenetic alterations in senescence-accelerated mice prone 8. *Neuroscience Letters*. doi.org/10.1016/j.neulet.2019.05.031
53. Zhang, B., Wang, P. P., Hu, K. L., Li, L. N., Yu, X., Lu, Y., & Chang, H. S. (2019). Antidepressant-Like Effect and Mechanism of Action of Honokiol on the Mouse Lipopolysaccharide (LPS) Depression Model. *Molecules*, 24(11), 2035. doi:10.3390/molecules24112035
54. Zhu, D., Zhao, J., Lou, A., Huang, Q., OuYang, Q., Zhu, J., ... & Yang, M. (2019). Transforming growth factor β1 promotes fibroblast-like synoviocytes migration and invasion via TGF-β1/Smad signaling in rheumatoid arthritis. *Molecular and Cellular Biochemistry*, 1-10. doi.org/10.1007/s11010-019-03557-0
55. Li Q et al (2019). Porphyromonas gingivalis degrades integrin β1 and induces AIF-mediated apoptosis of epithelial cells. *Infect Dis (Lond)*. 2019 Aug 14:1-9. doi: 10.1080/23744235.2019.1653490.
56. Hua, H., Yang, T., Huang, L., Chen, R., Li, M., Zou, Z., ... & Liu, Y. (2019). Protective effects of lanosterol synthase up-regulation in UV-B induced oxidative stress. *Frontiers in Pharmacology*, 10, 947.

57. Shen, L., Li, C., Zhang, H., Qiu, S., Fu, T., & Xu, Y. (2019). Downregulation of miR-146a Contributes to Cardiac Dysfunction Induced by the Tyrosine Kinase Inhibitor Sunitinib. *Frontiers in Pharmacology*, 10, 914. DOI: 10.3389/fphar.2019.00914
58. Liu, S. B., Qiu, X. Q., Guo, W. Q., Li, J. L., Su, Q., Du, J. H., ... & Xu, X. B. (2019). Transcriptome Analysis of FEN1 Knockdown HEK293T Cell Strain Reveals Alteration in Nucleic Acid Metabolism, Virus Infection, Cell Morphogenesis and Cancer Development. *Combinatorial chemistry & high throughput screening*. DOI : 10.2174/1386207322666190704095602
59. Gao, Y., Gui, F., Li, D., Zhang, R., Sun, Q., & Guo, X. (2019). Fluoride regulates the expression of extracellular matrix HSPG and related signaling pathways FGFR3 and Ihh/PTHrP feedback loop during endochondral ossification. *Environmental Toxicology and Pharmacology*, 103275.
60. Xu, W., Sun, D., Wang, Y., Zheng, X., Li, Y., & Xia, Y. (2019). Inhibitory effect of microRNA-608 on lung cancer cell proliferation, migration, and invasion by targeting BRD4 through the JAK2/STAT3 pathway. *Bosnian Journal of Basic Medical Sciences*.
61. Li, J. L., Wang, J. P., Chang, H., Deng, S. M., Du, J. H., Wang, X. X., ... & Song, Y. H. (2019). FEN1 inhibitor increases sensitivity of radiotherapy in cervical cancer cells. *Cancer medicine*.
62. Wang, M., Mingjiang, Y., Liu, J., Norio, T., Bin, Y., Miao, Z., ... & Fangze, T. (2019). Ligusticum chuanxiong exerts neuroprotection by promoting adult neurogenesis and inhibiting inflammation in the hippocampus of ME cerebral ischemia rats. *Journal of Ethnopharmacology*, 112385.
63. Bingtong Li, Ping Li, Liqi Bi (2019). Iguratimod dose dependently inhibits the expression of citrullinated proteins and peptidylarginine deiminases 2 and 4 in neutrophils from rheumatoid arthritis patients. *Clin Rheumatol*. 2019 Nov 22. doi: 10.1007/s10067-019-04835-4.
64. Wang, J., Luo, J., Huang, W., Liu, C., Zeng, D., Liu, H., ... & Qin, X. (2019). Increased intracellular Cl<sup>-</sup> concentration by activating FAK promotes airway epithelial BEAS-2B cells proliferation and wound healing. *Archives of Biochemistry and Biophysics*, 108225. doi.org/10.1016/j.abb.2019.108225.
65. Li, W. J., Gong, Y. L., Gou, W., Li, B., Wang, R., & Lin, Z. F. (2019). Two Cd (II)-based coordination polymers constructed from different donor ligands: structural insights and anti-ovarian cancer activity evolution. *Inorganic and Nano-Metal Chemistry*, 1-7.

### Minute™ Cytoplasmic and Nuclear Fractionation kit (SC-003)

1. Kalabus, J.L. et al. (2012). MicroRNAs differentially regulate carbonyl reductase 1 (CBR1) gene expression dependent on the allele status of common polymorphic variant rs9024. *PLOS ONE*. 7(11):1-9.
2. Lombrafia A.Q. et al (2014). Interindividual variability in the cardiac expression of anthracycline reductases in donors with and without down syndrome. *Pharm Res*. 31:1644-1655.
3. Hou, N., et al. (2014). Vitamin A deficiency impairs spatial learning and memory: The mechanism of abnormal CBP-dependent histone acetylation regulated by retinoic acid receptor alpha. *Mol Neurobiol*. DOI 10.1007/s12035-014-8741-6.
4. You, Y., et al. (2014). Latexin sensitizes leukemogenic cells to gamma-irradiation-induced cell-cycle arrest and cell death through Rps3. *Cell Death and Disease*. (2014)5, e1493; doi: 10.1038/cddis. 2014.443.

5. Tanaka M et al. (2016). Ex vivo effects of naphthoquinones allergen-sensitized mononuclear cells in mice. *International Journal of Immunopathology and Pharmacology*. DOI: 10.1177/0394632016632221
6. Liu W. et al. (2016) Electroacupuncture improves motor impairment via inhibition of microglia-mediated neuroinflammation in the sensorimotor cortex after ischemic stroke. *Life Sciences*. doi:10.1016/j.lfs.2016.01.045
7. Xu, Yang, et al. (2016), RIP3 induces ischemic neuronal DNA degradation and programmed necrosis in rat via AIF." *Scientific Reports* 6:29362.
8. Shi, Le, et al. (2016). "Evodiamine exerts anti-tumor effects against hepatocellular carcinoma through inhibiting  $\beta$ -catenin-mediated angiogenesis." *Tumor Biology*: 1-13.9
9. Huang, C. W., Feng, W., Peh, M. T., Peh, K., Dymock, B. W., & Moore, P. K. (2016). A novel slow-releasing hydrogen sulfide donor, FW1256, exerts anti-inflammatory effects in mouse macrophages and in vivo. *Pharmacological Research*.
10. Matsuoka, Y., Nakayama, H., Yoshida, R., Hirose, A., Nagata, M., Tanaka, T., ... & Shinriki, S. (2016). IL-6 controls resistance to radiation by suppressing oxidative stress via the Nrf2-antioxidant pathway in oral squamous cell carcinoma. *British Journal of Cancer*.
11. Chen, Y., Hu, X., Guo, C., Yu, Y., & Lu, H. (2017). Epe1 contributes to activation of AMPK by promoting phosphorylation of AMPK alpha subunit, Ssp2. *Scientific Reports* | 7: 3208 | DOI:10.1038/s41598-017-03442-0
12. Meng, C., Cui, X., Qi, S., Zhang, J., Kang, J., & Zhou, H. (2016). Lung inflation with hydrogen sulfide during the warm ischemia phase ameliorates injury in rat donor lungs via metabolic inhibition after cardiac death. *Surgery*. DOI: <http://dx.doi.org/10.1016/j.surg.2016.10.031>
13. Liu, Y., Peng, J., Sun, T., Li, N., Zhang, L., Ren, J., ... & Ding, Y. (2017). Epithelial EZH2 serves as an epigenetic determinant in experimental colitis by inhibiting TNF $\alpha$ -mediated inflammation and apoptosis. *PNAS*. doi: 10.1073/pnas.1700909114
14. Hu, H., Zhu, W., Qin, J., Chen, M., Gong, L., Li, L., ... & Ye, D. (2016). Acetylation of PGK1 Promotes Liver Cancer Cell Proliferation and Tumorigenesis. *Hepatology*. doi: 10.1002/hep.28887
15. Hou, Y., Wang, Y., He, Q., Li, L., Xie, H., Zhao, Y., & Zhao, J. (2017).. Nrf2 Inhibits NLRP3 Inflammasome Activation Through Regulating Trx1/TXNIP Complex in Cerebral Ischemia Reperfusion Injury. *Behavioural Brain Research*.
16. Ueda, K., Masuda, A., Fukuda, M., Tanaka, S., Hosokawa, M., & Iwakawa, S. (2017). Monophosphorylation by deoxycytidine kinase affects apparent cellular uptake of decitabine in HCT116 colon cancer cells. *Drug Metabolism and Pharmacokinetics*.
17. Yang, Z., Zhu, M. L., Li, D. H., Zeng, R., & Han, B. N. (2017). N-Me-trichoderamide B isolated from *Penicillium janthinellum*, with antioxidant properties through Nrf2-mediated signaling pathway. *Bioorganic & Medicinal Chemistry*.
18. Ding, C. H., Deng, L. F., Chen, F., Ding, K., Chen, W. S., Xie, W. F., & Zhang, X. (2017). p. Q511L mutation of HNF1 $\alpha$  in hepatocellular carcinoma suppresses the transcriptional activity and the anti-tumor effect of HNF1 $\alpha$ . *Biochemical and Biophysical Research Communications*.
19. Zhang, F., Zhao, L., Wang, S., Yang, J., Lu, G., Luo, N., ... & Wei, W. (2017). Construction of a Biomimetic Magnetosome and Its Application as a SiRNA Carrier for High - Performance Anticancer Therapy. *Advanced Functional Materials*. DOI: 10.1002/adfm.201703326.
20. R Kawaguchi, N Hirata, Y Tokinaga, (2017) .Nitrite administration improves sepsis-induced myocardial and

mitochondrial dysfunction by modulating stress signal responses. *Journal of Anesthesia* ,23 Oct 2017, 31(6):885-894.DOI: 10.1007/s00540-017-2417-0

21. Li Liu,Wei Wu, Jing Li, Wei-Hua Jiao,Li-Yun Liu ,Jie Tanga, Lei Liua, Fan Suna,Bing-Nan Hana,Hou-Wen Lin(2018).Two sesquiterpene aminoquinones protect against oxidative injury in HaCaT keratinocytes via activation of AMPK $\alpha$ /ERK-Nrf2/ARE/HO-1 signaling.*Biomedecine & pharmacotherapie* 100:417-425 · February 2018 .DOI: 10.1016/j.biopha.2018.02.034
22. W Kang, L Shang, T Wang, H Liu, S Ge(2018).Rho-kinase Inhibitor Y-27632 Down-regulates LPS-induced IL-6 and IL-8 Production via Blocking p38 MAPK and NF- $\kappa$ B pathways in Human Gingival Fibroblasts.*Journal of periodontology* . 2018 Apr 6. doi: 10.1002/JPER.17-0571.
23. Jianbin Mo ,Qingyun Xie, Wei Wei , Jing Zhao(2018).Revealing the immune perturbation of black phosphorus nanomaterials to macrophages by understanding the protein corona. *NATURE COMMUNICATIONS* | (2018) 9:2480 | DOI: 10.1038/s41467-018-04873-7.
24. Liu Q, Zhao Y, Zheng L, Zhu X, Cui L, Cao Y(2018).The Glycosylphosphatidylinositol Transamidase Complex Subunit PbGPI16 of *Plasmodium berghei* Is Important for Inducing Experimental Cerebral Malaria.*Infect Immun*. 2018 Jul 23;86(8). doi: 10.1128/IAI.00929-17.
25. Li et al.(2018).KPNA2 promotes metabolic reprogramming in glioblastomas by regulation of c-myc.*Journal of Experimental & Clinical Cancer Research* .doi.org/10.1186/s13046-018-0861-9.
26. Peng-Cheng Kang etal (2018).miR-191 Inhibition Induces Apoptosis Through Reactivating Secreted Frizzled-Related Protein-1 in Cholangiocarcinoma.*Cell Physiol Biochem* .doi.org/10.1159/000493654.
27. Jiming Yin,et al (2018). Apelin inhibited epithelial–mesenchymal transition of podocytes in diabetic mice through downregulating immunoproteasome subunits  $\beta$ 5i. *Cell Death & Disease*.DOI 10.1038/s41419-018-1098-4.
28. Hirofumi Sakurai,et al (2018).Sulforaphane ameliorates steroid insensitivity through an Nrf2-dependent pathway in cigarette smoke-exposed asthmatic mice.*Free Radical Biology and Medicine*. doi.org/10.1016/j.freeradbiomed.2018.10.400.
29. Jiwei Hou etal (2018).M2 macrophages promote myofibroblast differentiation of LR-MSCs and are associated with pulmonary fibrogenesis.*Cell Communication and Signaling*.doi.org/10.1186/s12964-018-0300-8
30. Zhang C etal (2018).Knockdown of long non-coding RNA CCDC144NL-AS1 attenuates migration and invasion phenotypes in endometrial stromal cells from endometriosis.*Biol Reprod*. 2018 Nov 28. doi: 10.1093/biolre/iy0252.
31. ShaoWei etal (2018).Overexpression of Toll-like receptor 4 enhances LPS-induced inflammatory response and inhibits *Salmonella Typhimurium* growth in ovine macrophages. *European Journal of Cell Biology* .DOI: 10.1016/j.ejcb.2018.11.004.
32. T Otani etal (2018).Osteocalcin triggers Fas/FasL-mediated necroptosis in adipocytes via activation of p300.*Cell Death & Disease*. doi:10.1038/s41419-018-1257-7.
33. Qi Qian etal (2018).Down-regulated expression of microRNA-338-5p contributes to neuropathology in Alzheimer's disease.*FASEB Journal*.doi: 10.1096/fj.201801846R.
34. Rong Li etal (2018).Hyperbaric oxygen treatment promotes antioxidative effects on rats with acute carbon monoxide poisoning via NF-E2-related factor 2 activation.*Int J Clin Exp Med*.
35. Bao, W., Liu, X., Lv, Y., Lu, G. H., Li, F., Zhang, F., ... & Li, Y. (2019). Nanolongan with Multiple On-Demand Conversions for Ferroptosis-Apoptosis Combined Anticancer Therapy. *ACS Nano*.DOI: 10.1021/acsnano.8b05602.
36. Zhao W etal (2019).The role and molecular mechanism of Trop2 induced epithelial-mesenchymal transition through mediated  $\beta$ -catenin in gastric cancer.*Cancer Medicine*.DOI: 10.1002/cam4.1934.

37. Zhou et al. ANKHD1 is required for SMYD3 to promote tumor metastasis in hepatocellular carcinoma. *Journal of Experimental & Clinical Cancer Research* (2019). doi.org/10.1186/s13046-018-1011-0.
38. Li, P. C., Li, K., Wang, J., Zhao, C. Z., Zhao, S. Z., Hou, L., ... & Wang, X. J. (2019). The AAA-ATPase MIDASIN 1 Functions in Ribosome Biogenesis and Is Essential for Embryo and Root Development. *Plant physiology*, pp-01225. DOI:10.1104/pp.18.01225.
39. Kong, P., Yu, Y., Wang, L., Dou, Y. Q., Zhang, X. H., Cui, Y., ... & Cui, W. (2019). circ-Sirt1 controls NF- $\kappa$ B activation via sequence-specific interaction and enhancement of SIRT1 expression by binding to miR-132/212 in vascular smooth muscle cells. *Nucleic Acids Research*. Doi: 10.1093/nar/gkz141
40. Fu, J., Li, G., Wu, X., & Zang, B. Sodium Butyrate Ameliorates Intestinal Injury and Improves Survival in a Rat Model of Cecal Ligation and Puncture-Induced Sepsis. *Inflammation*, 1-11. DOI: 10.1007/s10753-019-00987-2
41. Zhu, Y., Shao, Y., Qu, X., Guo, J., Yang, J., Zhou, Z., & Wang, S. (2019). Sodium ferulate protects against influenza virus infection by activation of the TLR7/9-MyD88-IRF7 signaling pathway and inhibition of the NF- $\kappa$ B signaling pathway. *Biochemical and Biophysical Research Communications*.
42. Sanada, T. J., Sakao, S., Naito, A., Ishibashi-Ueda, H., Suga, M., Shoji, H., ... & Ishida, K. (2019). Characterization of pulmonary intimal sarcoma cells isolated from a surgical specimen: In vitro and in vivo study. *PloS one*, 14(3), e0214654.
43. Lin, W., Xu, L., Pan, Q., Lin, S., Feng, L., Wang, B., ... & Wang, Y. (2019). Lgr5-overexpressing mesenchymal stem cells augment fracture healing through regulation of Wnt/ERK signaling pathways and mitochondrial dynamics. *The FASEB Journal*, fj-201900082RR. doi: 10.1096/fj.201900082RR.
44. Liu, B., Gu, Y., Pei, S., Peng, Y., Chen, J., Pham, L. V., ... & Wang, H. (2019). Interleukin-1 receptor associated kinase (IRAK)-M-mediated type 2 microglia polarization ameliorates the severity of experimental autoimmune encephalomyelitis (EAE). *Journal of Autoimmunity*. doi.org/10.1016/j.jaut.2019.04.020
45. Zhang, X., Cao, X., Dang, M., Wang, H., Chen, B., Du, F., ... & Guo, C. (2019). Soluble receptor for advanced glycation end-products enhanced the production of IFN- $\gamma$  through the NF- $\kappa$ B pathway in macrophages recruited by ischemia/reperfusion. *International journal of molecular medicine*, 43(6), 2507-2515. DOI: 10.3892/ijmm.2019.4152
46. Li, M., Zhang, H., Liu, H., Tian, H., Tang, X., Bai, Y., & Wang, W. (2019). Abnormal expression of TBX4 during anorectal development in rat embryos with ethylenethiourea-induced anorectal malformations. *Biological Research*, 52(1), 27. doi.org/10.1186/s40659-019-0235-6
47. Huang, C., Chen, Y., Dai, H., Zhang, H., Xie, M., Zhang, H., ... & Chen, Z. (2019). UBAP2L arginine methylation by PRMT1 modulates stress granule assembly. *Cell Death & Differentiation*, 1. doi.org/10.1038/s41418-019-0350-5
48. Kang, Y., Li, Y., Zhang, T., Chi, Y., & Liu, M. Effects of transcription factor EB on oxidative stress and apoptosis induced by high glucose in podocytes. *International Journal of Molecular Medicine*. DOI: 10.3892/ijmm.2019.4209
49. Ren, R. C., Wang, L. L., Zhang, L., Zhao, Y. J., Wu, J. W., Wei, Y. M., ... & Zhao, X. Y. DEK43 is a P - type PPR Protein Responsible for the Cis - splicing of nad4 in Maize Mitochondria. *Journal of Integrative Plant Biology*. doi: 10.1111/jipb.12843.
50. Zhu, W., Xu, R., Du, J., Fu, Y., Li, S., Zhang, P., ... & Jiang, H. (2019). Zoledronic acid promotes TLR4-mediated M1 macrophage polarization in bisphosphonate-related osteonecrosis of the jaw. *The FASEB Journal*, 33(4), 5208-5219. doi: 10.1096/fj.201801791RR
51. Ye, M., Ma, J., Liu, B., Liu, X., Ma, D., & Dong, K. Linc01105 acts as an oncogene in the development of neuroblastoma. *Oncology Reports*. doi.org/10.3892/or.2019.7257



52. Sun, L. J., Qiao, W., Xiao, Y. J., Cui, L., Wang, X., & Ren, W. D. (2019). Naringin mitigates myocardial strain and the inflammatory response in sepsis-induced myocardial dysfunction through regulation of PI3K/AKT/NF- $\kappa$ B pathway. *International Immunopharmacology*, 75, 105782.doi.org/10.1016/j.intimp.2019.105782
53. Diao, H., Cheng, N., Zhao, Y., Xu, H., Dong, H., Thamm, D. H., ... & Lin, D. (2019). Ivermectin inhibits canine mammary tumor growth by regulating cell cycle progression and WNT signaling. *BMC Veterinary Research*, 15(1), 1-10.doi.org/10.1186/s12917-019-2026-2
54. Li Q et al (2019).Porphyromonas gingivalis degrades integrin  $\beta$ 1 and induces AIF-mediated apoptosis of epithelial cells.*Infect Dis (Lond)*. 2019 Aug 14:1-9. doi: 10.1080/23744235.2019.1653490.
55. Tong, S. M., Wang, D. Y., Gao, B. J., Ying, S. H., & Feng, M. G. The DUF1996 and WSC domain - containing protein WscII acts as a novel sensor of multiple stress cues in *Beauveria bassiana*. *Cellular Microbiology*, e13100.DOI: 10.1111/cmi.13100
56. Cao, H., Chen, X., Hou, J., Wang, C., Xiang, Z., Shen, Y., & Han, X. (2019). The Shh/Gli signaling cascade regulates myofibroblastic activation of lung-resident mesenchymal stem cells via the modulation of Wnt10a expression during pulmonary fibrogenesis. *Laboratory Investigation*, 1-15.
57. Liu, L., Zhu, H., Wu, W., Shen, Y., Lin, X., Wu, Y., ... & Lin, H. W. (2019). Neoantimycin F, a Streptomyces-Derived Natural Product Induces Mitochondria-Related Apoptotic Death in Human Non-Small Cell Lung Cancer Cells. *Frontiers in Pharmacology*, 10.
58. Zhang, Y., Xie, H., Tang, W., Zeng, X., Lin, Y., Xu, L., ... & Yuan, D. (2019). Trichostatin A, a histone deacetylase inhibitor, alleviates eosinophilic meningitis induced by *Angiostrongylus cantonensis* infection in mice. *Frontiers in Microbiology*, 10.
59. Li, J. L., Wang, J. P., Chang, H., Deng, S. M., Du, J. H., Wang, X. X., ... & Song, Y. H. (2019). FEN1 inhibitor increases sensitivity of radiotherapy in cervical cancer cells. *Cancer medicine*.doi.org/10.1002/cam4.2615
60. Wang, T., Du, Q., Niu, Y., Zhang, X., Wang, Z., Wu, X., ... & Huang, Y. (2019). Cellular p32 Is a Critical Regulator of Porcine Circovirus Type 2 Nuclear Egress. *Journal of virology*, 93(23).DOI: 10.1128/JVI.00979-19
61. Wang, T., Duan, Y. M., Fu, Q., Liu, T., Yu, J. C., Sui, Z. Y., ... & Wen, G. Q. (2019). IM-12 activates the Wnt- $\beta$ -catenin signaling pathway and attenuates rtPA-induced hemorrhagic transformation in rats after acute ischemic stroke. *Biochemistry and Cell Biology*, (999)
62. Du, Y., Du, Y., Zhang, Y., Huang, Z., Fu, M., Li, J., ... & He, G. (2019). MKP-1 reduces A $\beta$  generation and alleviates cognitive impairments in Alzheimer's disease models. *Signal Transduction and Targeted Therapy*, 4(1), 1-12.
63. Xie, X., Yu, C., Ren, Q., Wen, Q., Zhao, C., Tang, Y., & Du, Y. (2019). Exposure to HBCD promotes adipogenesis both in vitro and in vivo by interfering with Wnt6 expression. *Science of The Total Environment*, 135917.
64. Jiang, H., Li, R., Zhang, Z., Chang, C., Liu, Y., Liu, Z., ... & Wang, Q. Retinoid X receptor  $\alpha$  (RXR  $\alpha$ ) - mediated erythroid - 2 - related factor - 2 (NRF2) inactivation contributes to N, N - dimethylformamide (DMF) - induced oxidative stress in HL - 7702 and HuH6 cells. *Journal of Applied Toxicology*.

### Minute™ Bacterial Total Protein Extraction Kit (SB-004)

1. [http://bio.lonza.com/uploads/tx\\_mwaxmarketingmaterial/Lonza\\_Newsletter\\_201309\\_Resource\\_Notes\\_Fall.pdf#page=9](http://bio.lonza.com/uploads/tx_mwaxmarketingmaterial/Lonza_Newsletter_201309_Resource_Notes_Fall.pdf#page=9)

2. Yonezawa, H. et al (2017). Diversification of the AlpB Outer Membrane Protein of *Helicobacter pylori* Affects Biofilm Formation and Cellular Adhesion..J Bacteriol199:e00729-16. doi.org/ 10.1128/JB.00729-16.

### Minute™ Plasma Membrane Protein Isolation and Cell Fractionation Kit (SM-005)

1. Kalabus JL, et al. (2013). Viral Attachment Induces Rapid Recruitment of an Innate Immune Sensor (TRIM5 $\hat{\pm}$ ) to the Plasma Membrane. *J Innate Immun* 5:414-424.
2. Wen D. et al. (2013). Regulation of BK- expression in the distal nephron by aldosterone and urine pH. *Am J Physiol Renal Physiol*. 305: F463-F476.
3. Yang J. et al (2014). PLCy1-PKCy signaling-mediated Hsp90a plasma membrane translocation facilitates tumor metastasis. *Traffic*; 15(8): 861-78.
4. Marry E.W. et al (2014). Filamin-A is required for the incorporation of tissue factor into cell-derived microvesicles. *Thromb Haemost*; 111:647-655.
5. Kutluay, S., et al. (2014). Global Changes in the RNA Binding Specificity of HIV-1 Gag Regulate Virion Genesis, *Cell* (2014), <http://dx.doi.org/10.1016/j.cell.2014.09.057>.
6. Leung W-H. et al.(2015). PRL-3 Mediates the protein Maturation of ULBP2 by regulating the tyrosine phosphorylation of HSP60.The *Journal of Immunology*.doi:10.4049/jimmunol.1400817.
7. Henry E., et al. (2015). Beyond Glycolysis: GAPDHs are multifunctional enzymes involved in regulation of ROS, autophagy, and plant immune responses. *PLoS Genet* 11(4): e1005199. doi:10.1371/journal.pgen.1005199.
8. Wen D., et al. (2015). Increased epithelial sodium channel activity contributes to hypertension caused by Na<sup>+</sup>-Hco-cotransporter electrogenic 2 deficiency. *Hypertension*. 2015;66:00-00. DOI: 10.1161/HYPERTENSIONAHA.115.05394.
9. Yamaguchi T., et al. (2015). Expression of BAF57 in ovarian cancer cells and drug sensitivity. *Cancer Sci* 106 (2015) 359-366. doi: 10.1111/cas.12612.
10. Wen D. et al. (2015). Deficient acid handling with distal RTA in the NBCe2 knockout mouse. *Am J Physiol Renal Physiol* (June 24, 2015). doi:10.1152/ajprenal.00163.2015.
11. Kashiwagi Y, Nagoshi T, Yoshino T, Tanaka TD, Ito K, Harada T, et al. (2015) Expression of SGLT1 in Human Hearts and Impairment of Cardiac Glucose Uptake by Phlorizin during Ischemia- Reperfusion Injury in Mice. *PLoS ONE* 10(6):e0130605. doi:10.1371/journal.pone.0130605.
12. Georgiou D. K., et al. (2015). Ca<sup>2+</sup> Binding/Permeation via Calcium Channel, CaV1.1, Regulates the Intracellular Distribution of the Fatty Acid Transport Protein, CD36, and Fatty Acid Metabolism doi: 10.1074/jbc.M115.643544 jbc.M115.643544.
13. Devarakonda C. V. et al.(2015). Patient-derived heavy chain antibody targets cell surface HSP90 on breast tumors. *BMC Cancer* 2015, 15:614 doi:10.1186/s12885-015-1608-z
14. Lin Z-J, D.,et al(2015) PBL13 is a serine/threonine protein kinase that negatively regulates Arabidopsis immune responses. *Plant Physiology*. doi: <http://dx.doi.org/10.1104/pp.15.01391>
15. Mickle, A. D., Shepherd, A. J., Loo, L., & Mohapatra, D. P. (2015). Induction of Thermal and Mechanical Hypersensitivity by Parathyroid Hormone-related Peptide (PTHrP) Through Upregulation of TRPV1 Function and Trafficking. *Pain*, 156(9), 1620.

16. Izumi D., et al. (2016). CXCL12/CXCR4 activation by cancer-associated fibroblasts promotes integrin  $\beta 1$  clustering and invasiveness in gastric cancer. *Int. J. Cancer*: 138, 1207-1219.
17. Sebla B. Kutluay and Paul D. Bieniasz. (2016) Analysis of HIV-1 Gag-RNA Interactions in Cells and Virions by CLIP-seq. *Methods in Mol. Biol.* 1354, pp 119-131.
18. Mukai H., et al. (2016) PKN3 is the major regulator of angiogenesis and tumor metastasis in mice. *Scientific Reports* | 6:18979 | DOI: 10.1038/srep18979.
19. Tao JQ et al. (2016). Onset of Inflammation with Ischemia: Implications for Donor Lung Preservation and Transplant Survival. *American Journal of Transplantation*. doi: 10.1111/ajt.13794.
20. Vazquez-Medina J.P. et al. (2016). The phospholipase A2 activity of peroxiredoxin 6 modulates NADPH oxidase 2 activation via lysophosphatidic acid receptor signaling in the pulmonary endothelium and alveolar macrophages. *The FASEB Journal*. doi: 10.1096/fj.201500146R.
21. Lin W. et al., (2016). Syndecan-4 negatively regulates antiviral signaling by mediating RIG-I ubiquitination via CYLD. *Nature communications*, DOI: 10.1038/ncomms11848. <http://www.nature.com/naturecommunications>.
22. Hernández-Saavedra, Daniel, et al. (2016) "RTP801 Amplifies Nox-4-dependent Oxidative Stress Induced by Cigarette Smoke." *American Journal of Respiratory Cell and Molecular Biology*.
23. LEE, S. J., PARK, B. N., ROH, J. H., AN, Y. S., HUR, H., & YOON, J. K. (2016). Enhancing the Therapeutic Efficacy of 2-Deoxyglucose in Breast Cancer Cells Using Cell-cycle Synchronization. *Anticancer Research*, 36(11), 5975-5980.
24. Choi, K. M., Kim, W., Hong, J. T., & Yoo, H. S. (2017). Dodeca-2(E),4(E)-dienoic acid isobutylamide enhances glucose uptake in 3T3-L1 cells via activation of Akt signaling. *Mol Cell Biochem*. DOI 10.1007/s11010-016-2876-x
25. Hisamatsu, Y., Suzuki, N., Masum, A. A., Shibuya, A., Abe, R., Sato, A. & Aoki, S. (2017). Cationic Amphiphilic Tris-Cyclometalated Iridium(III) Complexes Induce Cancer Cell Death via Interaction with  $Ca^{2+}$ -Calmodulin Complex. *Bioconjugate Chem*. DOI: 10.1021/acs.bioconjchem.6b00627
26. Sun, X., Tao, L., Yi, L., Ouyang, Y., Xu, N., Li, D., & Zhang, Z. (2017). N-glycans released from glycoproteins using a commercial kit and comprehensively analyzed with a hypothetical database. *Journal of Pharmaceutical Analysis*. DOI: <http://dx.doi.org/10.1016/j.jpha.2017.01.004>
27. Luo, Y., Duan, H., Qian, Y., Feng, L., Wu, Z., Wang, F., ... & Yan, X. (2017). Macrophagic CD146 promotes foam cell formation and retention during atherosclerosis. *Cell Research* (2017) :1-21. doi:10.1038/cr.2017.8
28. Zheng, J., Zhao, Y., Lun, Q., Song, Y., Shi, S., Gu, X., ... & Tu, P. (2017). *Corydalis edulis* Maxim. Promotes Insulin Secretion via the Activation of Protein Kinase Cs (PKCs) in Mice and Pancreatic  $\beta$  Cells. *Scientific Reports* | 7:40454 | DOI: 10.1038/srep40454
29. Hoshi, Y., Uchida, Y., Tachikawa, M., Ohtsuki, S., & Terasaki, T. (2017). Actin filament - associated protein 1 (AFAP - 1) is a key mediator in inflammatory signaling - induced rapid attenuation of intrinsic P - gp function in human brain capillary endothelial cells. *Journal of Neurochemistry*.
30. Xu N, et al (2017). Hypokalemia and Pendrin Induction by Aldosterone. *Hypertension*. doi.org/10.1161/HYPERTENSIONAHA.116.08519
31. Hayashiuchi, M., Kitayama, T., Morita, K. et al. *J Anesth* (2017) General anesthetic actions on GABAA receptors in vivo are reduced in phospholipase C-related catalytically inactive protein knockout mice. *Journal of Anesthesia*, 1-8. doi:10.1007/s00540-017-2350-2.

32. Gong B, Shen W, Xiao W, Meng Y, Meng A, Jia S.(2017). The Sec14-like phosphatidylinositol transfer proteins Sec14I3/SEC14L2 act as GTPase proteins to mediate Wnt/Ca<sup>2+</sup> signaling. *eLife* 2017;6:e26362. DOI: 10.7554/eLife.26362
33. Ueda, K., Nishimoto, M., Hirohama, D., Ayuzawa, N., Kawarazaki, W., Watanabe, A., ... & Fujita, T. (2017).Renal Dysfunction Induced by Kidney-Specific Gene Deletion of Hsd11b2 as a Primary Cause of Salt-Dependent Hypertension. *Hypertension*. 2017;70:111-118. DOI: 10.1161/HYPERTENSIONAHA.116.08966.
34. Asano, S., Taniguchi, Y., Yamawaki, Y., Gao, J., Harada, K., Takeuchi, H., ... & Kanematsu, T. (2017).Suppression of cell migration by phospholipase C-related catalytically inactive protein-dependent modulation of PI3K signalling.*Sci Rep*. 2017 Jul 14;7(1):5408. doi: 10.1038/s41598-017-05908-7.
35. Bugge, M., Bergstrom, B., Eide, O. K., Solli, H., Kjønstad, I. F., Stenvik, J., ... & Nilsen, N. J. (2017). Surface Toll-Like Receptor 3 Expression in Metastatic Intestinal Epithelial Cells induces Inflammatory Cytokine Production and Promotes Invasiveness. *J Biol Chem*. 2017 Jul 17. pii: jbc.M117.784090. doi: 10.1074/jbc.M117.784090. [Epub ahead of print]
36. Murgueitio, M. S., Ebner, S., Hörtnagl, P., Rakers, C., Bruckner, R., Henneke, P., ... & Santos-Sierra, S. (2017). Enhanced immunostimulatory activity of in silico discovered agonists of Toll-like receptor 2 (TLR2).*Biochim Biophys Acta*. 2017 Jul 19. pii: S0304-4165(17)30222-2. doi: 10.1016/j.bbagen.2017.07.011. [Epub ahead of print]
37. Gu, S., Sachleben, J. R., Boughter, C. T., Nawrocka, W. I., Borowska, M. T., Tarrasch, J. T., ... & Adams, E. J. (2017).,Phosphoantigen-induced conformational change of butyrophilin 3A1 (BTN3A1) and its implication on  $\gamma$  9V  $\delta$  2 T cell activation . *PNAS* 2017 ; August 14, 2017, doi: 10.1073/pnas.1707547114 [PNAS ahead of print]
38. Ferioli, S., Zierler, S., ZaiBerer, J., Schredelseker, J., Gudermann, T., & Chubanov, V. (2017). TRPM6 and TRPM7 differentially contribute to the relief of heteromeric TRPM6/7 channels from inhibition by cytosolic Mg<sup>2+</sup> and Mg·ATP. *Scientific Reports*, 7.
39. Sugimoto, R., Watanabe, H., Ikegami, K., Enoki, Y., Imafuku, T., Sakaguchi, Y., ... & Tanaka, M. (2017). Down-regulation of ABCG2, a urate exporter, by parathyroid hormone enhances urate accumulation in secondary hyperparathyroidism. *Kidney international*, 91(3), 658-670.
40. Lee, A., Choi, K. M., Jung, W. B., Jeong, H., Kim, G. Y., Lee, J. H., ... & Yoo, H. S. (2017).Enhancement of Glucose Uptake by Meso-Dihydroguaiaretic Acid through GLUT4 Up-Regulation in 3T3-L1 Adipocytes. *Molecules* 2017, 22, 1423; doi:10.3390/molecules22091423
41. Thornton, P., Sevalle, J., Deery, M. J., Fraser, G., Zhou, Y., Ståhl, S., ... & Nicol, L. S. (2017).TREM2 shedding by cleavage at the H157-S158 bond is accelerated for the Alzheimer's disease-associated H157Y variant. *EMBO Molecular Medicine*.30 AUG 2017.DOI: 10.15252/emmm.201707673
42. Toyoki, D., Shibata, S., Kuribayashi-Okuma, E., Xu, N., Ishizawa, K., Hosoyamada, M., & Uchida, S. (2017).Insulin stimulates uric acid reabsorption via regulating urate transporter 1 and ATP-binding cassette subfamily G member 2. *Am J Physiol Renal Physiol* 313: F826–F834, 2017.
43. Thorwald, M., Rodriguez, R., Lee, A., Martinez, B., Peti-Peterdi, J., Nakano, D., ... & Ortiz, R. M. (2017).Angiotensin receptor blockade improves cardiac mitochondrial activity in response to an acute glucose load in obese insulin resistant rats. *Redox Biology* 14 (2018) 371–378
44. Jing Liu, Wensu Liu, Jun Zhang, Fuchou Tang,Xiaoqun Wang et al.(2017).The Primate-Specific Gene TMEM14B Marks Outer Radial Glia Cells and Promotes Cortical Expansion and Folding. *Cell Stem Cell* (2017), doi.org/10.1016/j.stem.2017.08.013

45. Yokoi, K., Hisamatsu, Y., Naito, K. and Aoki, S. (2017), Design, Synthesis, and Anticancer Activities of Cyclometalated Tris(2-phenylpyridine)iridium(III) Complexes with Cationic Peptides at the 4' -Position of the 2-Phenylpyridine Ligand. *Eur. J. Inorg. Chem.*. doi: 10.1002/ejic.20170084
46. The article is unauthorized
47. Hongli Liu, Xiaofei Xu, Ting Han, Lei Yan, Lei Cheng, Yingying Qin (2017) . A novel homozygous mutation in the FSHR gene is causative for primary ovarian insufficiency. *Fertility and Sterility* .Available online 20 November 2017. doi.org/10.1016/j.fertnstert.2017.09.010.
48. Kevin T.Chapman et al(2017).US Patent Application Publication Chapman et al. Pub No:2017/0276679A1 Pub.Date Sep.28.2017
49. Bok-Nam Park, PhD,etal (2017).Radiolabeled Anti-Adenosine Triphosphate Synthase Monoclonal Antibody as a Theragnostic Agent Targeting Angiogenesis.*Molecular Imaging*. doi.org/10.1177/1536012117737399
50. Ye Tian Dai Heng Kaili Xu Wenbo Liu Xuechun Weng Xusong Hu Cheng Zhang (2017) .cGMP/PKG-I pathway-mediated GLUT1/4 regulation by NO (nitric oxide) in female rat granulosa cells. *Endocrinology*, en.2017-00863, doi.org/10.1210/en.2017-00863
51. Naoya KAMEYAMA, Tokyo (JP);Munetoshi ANDO, Tokyo (JP); ShinyaOGAWA, Tokyo (JP); KazukiOKADA, Tokyo (JP)(2018).ANTIBODY WHICH SPECIFICALLY BINDS TO HUMAN CRTH2 .Patent Application Publication May 4, 2017. Sheet 9 of 17 US 2017/O121415 A1
52. KEVIN P. CLAFFEY, BURLINGTON, CT (US); CHARAN DEVARAKONDA, WILLIMANI\*IC, CT (US); DANIEL KITA, CHESHIRE, CT (US) (2018) .ANTIBODY AND ANTIGEN-BINDING FRAGMENT COMPOSITIONS TARGETING CELL SURFACE ANIIGENS IN TUMORS AND METHODS OF USE THEREOF .Patent Application Publication A. Jan. 4, 2018 Sheet 4 Of 11 - Miq 'osoft US 2018/0002412 A1
53. Li C, Du S, Tian M, Wang Y, Bai J, Tan P, Liu W, Yin R, Wang M, Jiang Y, Li Y, Zhu N, Zhu Y, Li T, Wu S, Jin N and He F (2018) .The Host Restriction Factor Interferon-Inducible Transmembrane Protein 3 Inhibits Vaccinia Virus Infection. *Front. Immunol.* 9:228. doi: 10.3389/fimmu.2018.00228
54. Lin Long,Xiao-Xiao Pang,Fei Lei ,Jia-Sheng Zhang,Wei Wang ,Lian-Di Liao, Xiu-E Xu,Jian-Zhong He, Jian-Yi Wu, Zhi-Yong Wu, Li-Dong Wang,De-Chen Lin,En-Min Li, Li-Yan Xu(2018). SLC52A3 expression is activated by NF-κB p65/Rel-B and serves as a prognostic biomarker in esophageal cancer.*Cellular and Molecular Life Sciences* doi.org/10.1007/s00018-018-2757-4
55. Y. Yu,Y. Zhao,F. Teng,J. Li,Y. Guan,J. Xu,X. Lv,F. Guan,Ming Zhang, L. Chen(2018). Berberine Improves Cognitive Deficiency and Muscular Dysfunction Via Activation of the AMPK/SIRT1/PGC-1A Pathway in Skeletal Muscle from Naturally Aging Rats. *J Nutr Health Aging* (2018).doi.org/10.1007/s12603-018-1015-7
56. Xi Song, \_ Qiyang Shen, Liting Fan, Qiuxiao Yu, Xiao Jia, Yu Sun, Wenpei Bai, Jihong Kang(2018).Dehydroepiandrosterone-induced activation of mTORC1 and inhibition of autophagy contribute to skeletal muscle insulin resistance in a mouse model of polycystic ovary syndrome.*Oncotarget*. 2018; 9:11905-11921. doi.org/10.18632/oncotarget.24190
57. Yin et al(2018).Roles of astrocytic connexin-43, hemichannels, and gap junctions in oxygen-glucose deprivation/reperfusion injury induced neuroinflammation and the possible regulatory mechanisms of salvianolic acid B and carbenoxolone.*Journal of Neuroinflammation* (2018) 15:97, doi.org/10.1186/s12974-018-1127-3.

58. XiaoLong Zhang , HuanHuan Ding, Ting Xu, Meng Liu, Chao Ma(2018).Palmitoylation of  $\delta$ -catenin promotes kinesin-mediated membrane trafficking of Nav1.6 in sensory neurons to promote neuropathic pain. *Signal*. 27 Mar 2018:Vol. 11, Issue 523, eaar4394,DOI: 10.1126/scisignal.aar4394.
59. Yamauchi, T., Doi, S., Nakashima, A., Doi, T., Sohara, E., Uchida, S., & Masaki, T. (2018). Na<sup>+</sup>-Cl<sup>-</sup> cotransporter-mediated chloride uptake contributes to hypertension and renal damage in aldosterone-infused rats. *American Journal of Physiology-Renal Physiology*.doi.org/10.1152/ajprenal.00504.2016
60. Kameyama, Naoya, A. N. D. O. Munetoshi, Shinya Ogawa, and Kazuki Okada. "Antibody which specifically binds to human CRTH2." U.S. Patent 9,938,349, issued April 10, 2018.
61. Kyeong-Mi Choi , Hwan-Soo Yoo(2018). 3,3-Diindolylmethane Enhances Glucose Uptake Through Activation of Insulin Signaling in 3T3-L1 Adipocytes.OBESITY BIOLOGY AND INTEGRATED PHYSIOLOGY. doi:10.1002/oby.22145
62. Qingyang Liu, Yan Zhao, Li Zheng, Xiaotong Zhu, Liwang Cui1, and Yaming Cao(2018).The GPI transamidase complex subunit PbGPI16 of Plasmodium berghei is important for inducing experimental cerebral malaria.*Infect. Immun*. doi:10.1128/IAI.00929-17.
63. Wu, Y., Liu, T., Yuan, Y., & Zhang, Z. (2018). Gene expression profile of TLR7 signaling pathway in the liver of rhesus rotavirus-induced murine biliary atresia. *Biochemical and biophysical research communications*.doi.org/10.1016/j.bbrc.2018.06.018.
64. Komatsu, W., Kishi, H., Yagasaki, K., & Ohhira, S. (2018). Urolithin A attenuates pro-inflammatory mediator production by suppressing PI3-K/Akt/NF- $\kappa$ B and JNK/AP-1 signaling pathways in lipopolysaccharide-stimulated RAW264 macrophages: Possible involvement of NADPH oxidase-derived reactive oxygen species. *European Journal of Pharmacology* doi.org/10.1016/j.ejphar.2018.06.023.
65. Y Uchida, T Sumiya, M Tachikawa, T Yamakawa etal(2018).Involvement of Claudin-11 in Disruption of Blood-Brain, -Spinal Cord, and -Arachnoid Barriers in Multiple Sclerosis. *Molecular Neurobiology*. doi.org/10.1007/s12035-018-1207-5
66. Shibata et al., (2018).ULK1 Phosphorylates and Regulates Mineralocorticoid Receptor.*Cell Reports* 24, 569–576 July 17, 2018 \* 2018 The Author(s).doi.org/10.1016/j.celrep.2018.06.072
67. Jinliang Wang , Zilong Wang , Renqiang Liu , Lei Shuai, Xinxin Wang, Jie Luo, Chong Wang, Weiye Chen, Xijun Wang, Jinying Ge, Xijun He, Zhiyuan Wen , Zhigao Bu (2018).Metabotropic glutamate receptor subtype 2 is a cellular receptor for rabies virus.*PLoS Pathog*. 2018 Jul 20;14(7):e1007189. doi.org/10.1371/journal.ppat.1007189.
68. Liu Q, Zhao Y, Zheng L, Zhu X, Cui L, Cao Y(2018).The Glycosylphosphatidylinositol Transamidase Complex Subunit PbGPI16 of Plasmodium berghei Is Important for Inducing Experimental Cerebral Malaria.*Infect Immun*. 2018 Jul 23;86(8). doi: 10.1128/IAI.00929-17.
69. DY Liu,etal(2018).Sigma-1 receptor activation alleviates blood-brain barrier dysfunction in vascular dementia mice.*Exp Neurol*. 2018 Jul 10;308:90-99. doi: 10.1016/j.expneurol.2018.07.002.
70. Timothy Sean Kairupan, etal(2018). Rubiscolin-6 activates opioid receptors to enhance glucose uptake in skeletal muscle. *Journal of Food and Drug Analysis* . DOI: 10.1016/j.jfda.2018.06.012
71. He X et al (2018).Downregulation of MicroRNA-4463 Attenuates High-Glucose- and Hypoxia-Induced Endothelial Cell Injury by Targeting PNUTS.*Cell Physiol Biochem*. doi: 10.1159/000493717.
72. D Hirohama etal (2018).Aldosterone Is Essential for Angiotensin II-Induced Upregulation of Pendrin. *JASN* January 2018, 29 (1) 57-68; DOI: <https://doi.org/10.1681/ASN.2017030243>.

73. Thorwald, Max Andrew(2018).The Regulation of Cardiac Nrf2 During an Acute Glucose Challenge and the Impact on Mitochondrial Function During Insulin Resistance and Type II Diabetes Mellitus. Doctor of Philosophy in Quantitative and Systems Biology of University of California. <https://escholarship.org/uc/item/5zt6z1bv>.
74. Xiaoqing Xu, Jia Xu, Jiacheng Wu, Ye Hu, Yanmei Han, Yan Gu, Kai Zhao, Qian Zhang, Xingguang Liu, Juan Liu, Bing Liu, and Xuetao Cao (2018).Phosphorylation-Mediated IFN- $\gamma$ R2 Membrane Translocation Is Required to Activate Macrophage Innate Response.*cell*.doi.org/10.1016/j.cell.2018.09.011.
75. Md Badrul Alam et al (2018). Gossypol from Cottonseeds Ameliorates Glucose Uptake by Mimicking Insulin Signaling and Improves Glucose Homeostasis in Mice with Streptozotocin-Induced Diabetes.*Oxidative Medicine and Cellular Longevity*.doi.org/10.1155/2018/5796102.
76. D Hakuno et al (2018).Hepatokine  $\alpha$ 1-Microglobulin Signaling Exacerbates Inflammation and Disturbs Fibrotic Repair in Mouse Myocardial Infarction. *Scientific Reports*.DOI: 10.1038/s41598-018-35194-w.
77. DataoWang et al (2018).Proteomic Analysis of Plasma Membrane Proteins of Antler Stem Cells Using Label-Free LC-MS/MS. *Int J Mol Sci*. 2018 Nov 5;19(11). pii: E3477. doi: 10.3390/ijms19113477.
78. Kuroda H et al (2018).Cluster of Differentiation 46 is the Major Receptor in Human Blood-Brain Barrier Endothelial Cells for Uptake of Exosomes Derived from Brain-Metastatic Melanoma Cells (SK-Mel-28).*Mol Pharm*. 2018 Nov 19. doi: 10.1021/acs.molpharmaceut.8b00985.
79. Kataoka, Y., Ohshio, Y., Teramoto, K., Igarashi, T., Asai, T., & Hanaoka, J. Hypoxia-induced galectin-3 enhances RhoA function to activate the motility of tumor cells in non-small cell lung cancer. *Oncology Reports*.DOI: 10.3892/or.2018.6915.
80. Hoshi, Y., Uchida, Y., Tachikawa, M., Ohtsuki, S., Couraud, P. O., Suzuki, T., & Terasaki, T. (2019). Oxidative stress-induced activation of Abl and Src kinases rapidly induces P-glycoprotein internalization via phosphorylation of caveolin-1 on tyrosine-14, decreasing cortisol efflux at the blood–brain barrier. *Journal of Cerebral Blood Flow & Metabolism*, DOI: 10.1177/0271678X18822801.
81. Zhang N et al (2018).Fatty Acid Synthase Promotes the Palmitoylation of Chikungunya Virus nsP1. *J Virol*. Doi: 10.1128/JVI.01747-18.
82. H Nakamura et al (2019).Exploration of Proteins Involved in Acquisition of Resistance to Cetuximab. *jurnal.unpad.ac.id*.doi.org/10.24198/idjp.v1i1.19582.
83. Polioudaki, H., Chantziou, A., Kalyvianaki, K., Malamos, P., Notas, G., Mavroudis, D., ... & Theodoropoulos, P. A. (2019). Nuclear localization of PD-L1: artifact or reality?. *Cellular Oncology*.doi.org/10.1007/s13402-018-00419-7.
84. Ishizawa, K., Wang, Q., Li, J., Yamazaki, O., Tamura, Y., Fujigaki, Y., ... & Shibata, S. (2019). Calcineurin dephosphorylates Kelch-like 3, reversing phosphorylation by angiotensin II and regulating renal electrolyte handling. *Proceedings of the National Academy of Sciences*, 201817281.
85. Nemoto, Y., Kumagai, T., Ishizawa, K., Miura, Y., Shiraishi, T., Morimoto, C., ... & Fujigaki, Y. (2019). Phosphate binding by sucroferic oxyhydroxide ameliorates renal injury in the remnant kidney model. *Scientific Reports*, 9(1), 1732.Doi.org/10.1038/s41598-018-38389-3.
86. .Li, Y., Yang, T., Yao, Q., Li, S., Fang, E., Li, Y., ... & Li, W. (2019). Metformin prevents colonic barrier dysfunction by inhibiting mast cell activation in maternal separation-induced IBS-like rats. *Neurogastroenterology & Motility*. DOI: 10.1111/nmo.13556.
87. Peng, W., Tong, C., Li, L., Huang, C., Ran, Y., Chen, X., ... & Luo, X. (2019). Trophoblastic proliferation and invasion regulated by ACTN4 is impaired in early onset preeclampsia. *The FASEB Journal*, fj-201802058RR.Doi: 10.1096/fj.201802058RR.

88. Zhong, W., Xu, M., Li, C., Zhu, B., Cao, X., Li, D., ... & Pan, G. (2019). ORP4L Extracts and Presents PIP2 from Plasma Membrane for PLC $\beta$ 3 Catalysis: Targeting It Eradicates Leukemia Stem Cells. *Cell Reports*, 26(8), 2166-2177. [Doi.org/10.1016/j.celrep.2019.01.082](https://doi.org/10.1016/j.celrep.2019.01.082).
89. Zhang, S. H., Liu, D. X., Wang, L., Li, Y. H., Wang, Y. H., Zhang, H., ... & Li, B. (2019). A CASPR1–ATP1B3 protein interaction modulates plasma membrane localization of Na<sup>+</sup>/K<sup>+</sup>-ATPase in brain microvascular endothelial cells. *Journal of Biological Chemistry*, jbc-RA118. [Doi/10.1074/jbc.RA118.006263](https://doi.org/10.1074/jbc.RA118.006263).
90. Nagamine, A., Araki, T., Nagano, D., Miyazaki, M., & Yamamoto, K. L-Lactate dehydrogenase B may be a predictive marker for sensitivity to anti-EGFR monoclonal antibodies in colorectal cancer cell lines. *Oncology Letters*. DOI: 10.3892/ol.2019.10075
91. Essandoh, K., Deng, S., Wang, X., Jiang, M., Mu, X., Peng, J., ... & Fan, G. C. (2019). Tsg101 positively regulates physiologic-like cardiac hypertrophy through FIP3-mediated endosomal recycling of IGF-1R. *The FASEB Journal*, fj-201802338RR. doi: 10.1096/fj.201802338RR.
92. Ishizawa, K., Wang, Q., Li, J., Xu, N., Nemoto, Y., Morimoto, C., ... & Fujita, T. (2019). Inhibition of Sodium Glucose Cotransporter 2 Attenuates the Dysregulation of Kelch-Like 3 and NaCl Cotransporter in Obese Diabetic Mice. *Journal of the American Society of Nephrology*, ASN-2018070703. [Doi.org/10.1681/ASN.2018070703](https://doi.org/10.1681/ASN.2018070703).
93. Van Krieken, R., Mehta, N., Wang, T., Zheng, M., Li, R., Gao, B., ... & Austin, R. C. (2019). Cell surface expression of 78 kDa glucose regulated protein (GRP78) mediates diabetic nephropathy. *Journal of Biological Chemistry*, jbc-RA118. [Doi/10.1074/jbc.RA118.006939](https://doi.org/10.1074/jbc.RA118.006939).
94. Li, C., Wang, X., Cheng, F., Du, X., Yan, J., Zhai, C., ... & Wang, Q. (2019). Geniposide protects against hypoxia/reperfusion-induced blood-brain barrier impairment by increasing tight junction protein expression and decreasing inflammation, oxidative stress, and apoptosis in an in vitro system. *European Journal of Pharmacology*. [doi.org/10.1016/j.ejphar.2019.04.021](https://doi.org/10.1016/j.ejphar.2019.04.021).
95. Ni, H. M., Chao, X., Kaseff, J., Deng, F., Wang, S., Shi, Y. H., ... & Jaeschke, H. (2019). Receptor-Interacting Serine/Threonine Kinase 3 (RIP3)–Mixed Lineage Kinase Like Protein (MLKL)–Mediated Necroptosis Contributes to Ischemia-Reperfusion Injury of Steatotic Livers. *The American Journal of Pathology*. [doi.org/10.1016/j.ajpath.2019.03.010](https://doi.org/10.1016/j.ajpath.2019.03.010)
96. Sheng, J., Shen, L., Sun, L., Zhang, X., Cui, R., & Wang, L. (2019). Inhibition of PI3K/mTOR increased the sensitivity of hepatocellular carcinoma cells to cisplatin via interference with mitochondrial - lysosomal crosstalk. *Cell Proliferation*, e12609.
97. Ghosh, M., Lo, R., Ivic, I., Aguilera, B., Qendro, V., Devarakonda, C., & Shapiro, L. H. (2019). CD13 tethers the IQGAP1-ARF6-EFA6 complex to the plasma membrane to promote ARF6 activation,  $\beta$ 1 integrin recycling, and cell migration. *Signal.*, 12(579), eaav5938. DOI: 10.1126/scisignal.aav5938
98. Liu, W., Wang, X., Wang, S., Ba, X., Xu, T., Wang, X., & Zeng, X. RhoGDI2 positively regulates the Rho GTPases activation in response to the  $\beta$ 2 outside - in signaling in T cells adhesion and migration on ICAM - 1. *Journal of Leukocyte Biology*. DOI: 10.1002/JLB.2A0718-272RR
99. Chang, W., Callan, K. T., & Dragoo, J. L. (2019). The Behavior of Tendon Progenitor Cells from Tendinopathic Tendons: Implications for Treatment. *Tissue Engineering*, (ja). DOI: 10.1089/ten.TEA.2019.0042
100. Wang, D., Zheng, J., Hu, Q., Zhao, C., Chen, Q., Shi, P., ... & Pei, J. (2019). Magnesium protects against sepsis by blocking gasdermin D N-terminal-induced pyroptosis. *Cell Death & Differentiation*, 1. [doi.org/10.1038/s41418-019-0366-x](https://doi.org/10.1038/s41418-019-0366-x)



101. Yoshii, A., Nagoshi, T., Kashiwagi, Y., Kimura, H., Tanaka, Y., Oi, Y., ... & Yoshimura, M. (2019). Cardiac ischemia–reperfusion injury under insulin-resistant conditions: SGLT1 but not SGLT2 plays a compensatory protective role in diet-induced obesity. *Cardiovascular Diabetology*, 18(1), doi.org/10.1186/s12933-019-0889-y
102. Scheiber, I. F., Alarcon, N. O., & Zhao, N. (2019). Manganese Uptake by A549 Cells is Mediated by Both ZIP8 and ZIP14. *Nutrients*, 11(7), 1473. doi:10.3390/nu11071473
103. Yan Zhang, et al (2019). Hijacking antibody-induced CTLA-4 lysosomal degradation for safer and more effective cancer immunotherapy. *Cell research*, 1. doi.org/10.1038/s41422-019-0184-1
104. Xu, B. Y., Tang, X. D., Chen, J., Wu, H. B., Chen, W. S., & Chen, L. (2019). Rifampicin induces clathrin-dependent endocytosis and ubiquitin–proteasome degradation of MRP2 via oxidative stress-activated PKC-ERK/JNK/p38 and PI3K signaling pathways in HepG2 cells. *Acta Pharmacologica Sinica*, 1. doi.org/10.1038/s41401-019-0266-0
105. Xu Yue , Ping Zhou, Sen Cheng, ..., Jingjin Ding, Michael O. Hottiger, Feng Shao. (2019) A Bacterial Effector Reveals the V-ATPase-ATG16L1 Axis that Initiates Xenophagy. *Cell*. doi.org/10.1016/j.cell.2019.06.007
106. Ishii, S., Kitazawa, H., Mori, T., Kirino, A., Nakamura, S., Osaki, N., ... & Tamai, I. (2019). Identification of the Catechin Uptake Transporter Responsible for Intestinal Absorption of Epigallocatechin Gallate in Mice. *Scientific Reports*, 9(1), 11014. doi.org/10.1038/s41598-019-47214-4
107. Ljungars, A., Svensson, C., Carlsson, A., Birgersson, E., Tornberg, U. C., Frendeus, B., ... & Mattsson, M. (2019). Deep mining of complex antibody phage pools generated by cell panning enables discovery of rare antibodies binding new targets and epitopes. *Frontiers in Pharmacology*, 10. doi: 10.3389/fphar.2019.00847
108. Park, B. N., Kim, G. H., Ko, S. A., Shin, G. H., Lee, S. J., An, Y. S., & Yoon, J. K. (2019). Zr-89 Immuno-PET Targeting Ectopic ATP Synthase Enables In-Vivo Imaging of Tumor Angiogenesis. *International journal of molecular sciences*, 20(16), 3928. doi:10.3390/ijms20163928
109. Zhang, H., Tian, X., Lu, X., Xu, D., Guo, Y., Dong, Z., ... & Yang, M. (2019). TMEM25 modulates neuronal excitability and NMDA receptor subunit NR2B degradation. *The Journal of Clinical Investigation*, 129(9). doi.org/10.1172/JCI122599.
110. Bai, Y., Ma, L. T., Chen, Y. B., Ren, D., Chen, Y. B., Li, Y. Q., ... & Yi, X. N. (2019). Anterior insular cortex mediates hyperalgesia induced by chronic pancreatitis in rats. *Molecular Brain*, 12(1), 1-20. doi:10.1105/tpc.18.00706
111. Wu, J., Gao, F., Xu, T., Li, J., Hu, Z., Wang, C., ... & Zhou, B. (2019). CLDN1 induces autophagy to promote proliferation and metastasis of esophageal squamous carcinoma through AMPK/STAT1/ULK1 signaling. *Journal of Cellular Physiology*. doi.org/10.1002/jcp.29133
112. Li, W., Zhang, J., Zou, L., Cui, J., Su, F., Jin, J., ... & Zhao, G. Palmitoylome profiling indicates that androgens regulate the palmitoylation of  $\alpha$ -tubulin in prostate cancer-derived LNCaP cells and supernatants. *Oncology Reports*. doi: 10.3892/or.2019.7333.
113. Huang, S., Liu, C., Li, N., Wu, Z., Li, T., Han, D., ... & Wang, J. (2019). Membrane proteomic analysis reveals the intestinal development is deteriorated by intrauterine growth restriction in piglets. *Functional & Integrative Genomics*, 1-15. doi.org/10.1007/s10142-019-00714-y.
114. Jiang, A. (2019). Identifying Interactions Between Chikungunya Virus And Aedes Aegypti Salivary Gland Proteins.
115. Fujimoto, B. A., Young, M., Carter, L., Pang, A. P., Corley, M. J., Fogelgren, B., & Polgar, N. (2019). The exocyst complex regulates insulin-stimulated glucose uptake of skeletal muscle cells. *American Journal of Physiology-Endocrinology and Metabolism*.

116. Takahashi, N., Kimura, A. P., Otsuka, K., Ohmura, K., Naito, S., Yoshida, M., & Ieko, M. (2019). Dreh, a long noncoding RNA repressed by metformin, regulates glucose transport in C2C12 skeletal muscle cells. *Life Sciences*, 116906.
117. Liu, F., Liu, Q., Yu, C., Zhao, Y., Wu, Y., Min, H., ... & Cao, Y. (2019). An MFS-Domain Protein Pb115 Plays a Critical Role in Gamete Fertilization of the Malaria Parasite *Plasmodium berghei*. *Front Microbiol.* 2019; 10: 2193. doi: 10.3389/fmicb.2019.02193.
118. Börtlein, C., Schumacher, F., Kleuser, B., Dölken, L., & Avota, E. (2019). Role of Neutral Sphingomyelinase-2 (NSM2) in the Control of T Cell Plasma Membrane Lipid Composition and Cholesterol Homeostasis. *Frontiers in Cell and Developmental Biology*, 7.
119. Mücksch, F., Citir, M., Lüchtenborg, C., Glass, B., Traynor-Kaplan, A., Schultz, C., ... & Kräusslich, H. G. (2019). Quantification of phosphoinositides reveals strong enrichment of PIP 2 in HIV-1 compared to producer cell membranes. *Scientific Reports*, 9(1), 1-13.
120. Claffey, K. P., Devarakonda, C., & Kita, D. (2019). U.S. Patent Application No. 16/533,937.

### Minute™ Plasma Membrane Protein Isolation Kit for Plant (SM-005-P)

1. Shen, Q., Bourdais, G., Pan, H., Robatzek, S., & Tang, D. (2017). Arabidopsis glycosylphosphatidylinositol-anchored protein LLG1 associates with and modulates FLS2 to regulate innate immunity. *Proceedings of the National Academy of Sciences*, 201614468.
2. Zhiyuan Lv, Yan Huang, Bi Ma1, Zhonghuai Xiang, Ningjia He (2018). 1LysM1 in MmLYK2 is a motif required for the interaction of MmLYP1 and MmLYK2 in the chitin signaling. *Plant Cell Reports*. doi.org/10.1007/s00299-018-2295-4.
3. Jimi C Miller, et al (2018). Heterotrimeric G-proteins in unfolded protein response mediate plant growth-defense tradeoffs upstream of steroid and immune signaling. *CSH PERSPECT BIOL*. doi.org/10.1101/438135.
4. Wang Q et al (2018). Resistance protein Pit interacts with the GEF OsSPK1 to activate OsRac1 and trigger rice immunity. *Proc Natl Acad Sci U S A*. 2018 Nov 16. pii: 201813058. doi: 10.1073/pnas.1813058115.
5. Si Ma et al (2019). Phloem loading in cucumber: combined symplastic and apoplastic strategies. *The Plant Journal*. DOI: 10.1111/tpj.14224.
6. Shuai Zhang et al (2019). In rose, transcription factor PTM balances growth and drought survival via PIP2;1 aquaporin. *Nature plants*. Doi.org/10.1038/s41477-019-0376-1.
7. Cheng Liu, Dayong Cui, Jingbo Zhao, Na Liu, Bo Wang, Jing Liu, Enjun Xu, Zhubing Hu, et al (2019). Two Arabidopsis Receptor-Like Cytoplasmic Kinases SZE1 and SZE2 Associate with the ZAR1-ZED1 Complex and Are Required for Effector-Triggered Immunity. *Molecular Plant*. DOI: 10.1016/j.molp.2019.03.012
8. Jizong Wang\*, Meijuan Hu\*, Jia Wang\*, Jinfeng Qi, Zhifu Han, Guoxun Wang, Yijun Qi, Hong-Wei Wang†, Jian-Min Zhou†, Jijie Chai Reconstitution and structure of a plant NLR resistosome conferring immunity. *Science*. DOI: 10.1126/science.aav5870.
9. Zhang, X., Zhang, H., Lou, X., & Tang, M. (2019). Mycorrhizal and non-mycorrhizal *Medicago truncatula* roots exhibit differentially regulated NADPH oxidase and antioxidant response under Pb stress. *Environmental and Experimental Botany*. doi.org/10.1016/j.envexpbot.2019.04.015

10. Li, X., Li, N., & Xu, F. (2019). Increased autophagy of rice can increase yield and nitrogen use efficiency (NUE). *Frontiers in Plant Science*, 10, 584.doi: 10.3389/fpls.2019.00584
11. Yuan, N., Balasubramanian, V. K., Chopra, R., & Mendu, V. (2019). The photoperiodic flowering time regulator FKFI negatively regulates cellulose biosynthesis. *Plant Physiology*, pp-00013.DOI:10.1104/pp.19.00013
12. Phosphorylation at Ser28 stabilizes the Arabidopsis nitrate transporter NRT2. 1 in response to nitrate limitation. *Journal of integrative plant biology*. Yuan, N., Balasubramanian, V. K., Chopra, R., & Mendu, V. (2019).doi: 10.1111/jipb.12858.

### **Minute™ Detergent-Free Total Protein Extraction Kit for animal cells/tissues (SN-006)**

1. Seo, J-H. et al (2014). Directing stem cell differentiation by changing the molecular mobility of supramolecular surfaces. *Advanced Healthcare Materials*. DOI: 10.1002/adhm.201400173
2. M. Takada, S. Chiba et al. (2015). Inflammatory responses to neutral fat and fatty acids in multiple organs in a rat model of fat embolism syndrome, *Forensic Science International* . DOI: org/10.1016/j.forsciint.2015.07.011
3. Seo J. et al. (2016). Dynamic polyrotaxane-coated surface for effective differentiation of mouse induced pluripotent stem cells into cardiomyocytes. *RSC Advances*. DOI: 10.1039/C6RA03967G
4. Xu, Wenteng, et al. (2016). Ubiquitin ligase gene *neur13* plays a role in spermatogenesis of half-smooth tongue sole (*Cynoglossus semilaevis*) by regulating testis protein ubiquitination. *Gene* (2016), DOI: 10.1016/j.gene.2016.07.062

### **Minute™ Mitochondria Isolation Kit (MP-007)**

1. Gou, R. et al. (2014). Resveratrol suppresses oxidized low-density lipoprotein-induced macrophage apoptosis through inhibition of intracellular reactive oxygen species generation, *lox-1* and the *p38* MAPK pathway. *Cellular Physiology and Biochemistry*. 34:603-616.
2. Hu, H., Zhu, W., Qin, J., Chen, M., Gong, L., Li, L., ... & Ye, D. (2016).. Acetylation of *PGK1* Promotes Liver Cancer Cell Proliferation and Tumorigenesis. *Hepatology*. DOI: 10.1002/hep.28887
3. Ge Gao , Zhipeng Wang , Lingling Lu , Chunli Duan , Xiaomin Wang , Hui Yang (2017) .Morphological analysis of mitochondria for evaluating the toxicity of  $\alpha$ -synuclein in transgenic mice and isolated preparations by atomic force microscopy. *Biomedicine & Pharmacotherapy* . DOI: 10.1016/j.biopha.2017.11.057
4. Zhang,Liwen , Liu,Jian , Zhou,Fangfang , Wang,Weiming , Chen,Nan(2018). *PGC-1 $\alpha$*  ameliorates kidney fibrosis in mice with diabetic kidney disease through an antioxidative mechanism.*MOLECULAR MEDICINE REPORTS* 17: 4490-4498, 2018 .DOI: 10.3892/mmr.2018.8433
5. Yao Wu, Wei-Nan Gao, Ya-Nan Xue, Li-Chao, Zhang, Juan-Juan Zhang, Sheng-Yao Lu, Xiao-Yu Yan, Hui-Mei Yu, Jing Su, Lian-Kun Sun(2018).*SIRT3* aggravates metformin-induced energy stress and apoptosis in ovarian cancer cells.*Experimental Cell Research* , 2018 doi.org/10.1016/j.yexcr.2018.03.030
6. Luyan Shen, Boyang Sun ,Jiyao Sheng, Sihang Yu ,Yanqing Li, Huadan Xu, Jing Su ,Liankun Sun (2018).*PGC1 $\alpha$*  promotes cisplatin resistance in human ovarian carcinoma cells through upregulation of mitochondrial biogenesis. *International Journal of Oncology*.doi.org/10.3892/ijo.2018.4401
7. Han, W., Cao, F., Gao, X. J., Wang, H. B., Chen, F., Cai, S. J., ... & Ding, H. Z. *ZIC1* acts a tumor suppressor in breast cancer by targeting survivin. *International Journal of Oncology*.

8. Jie Ouyang et al (2018).SIRT3 inactivation promotes acute kidney injury through elevated acetylation of SOD2 and p53. *journal of surgical research*.doi.org/10.1016/j.jss.2018.07.019.
9. Kai Zhou et al (2018).VDAC2 interacts with PFKF to regulate glucose metabolism and phenotypic reprogramming of glioma stem cells. *Cell Death and Disease* .DOI 10.1038/s41419-018-1015-x.
10. Xue YN et al (2018).Zinc and p53 disrupt mitochondrial binding of HK2 by phosphorylating VDAC1.*Experimental Cell Research*.DOI: 10.1016/j.yexcr.2018.12.002.
11. XY Chen et al(2019).Isoliquiritigenin Induces Mitochondrial Dysfunction and Apoptosis by Inhibiting mitoNEET in a Reactive Oxygen Species-Dependent Manner in A375 Human Melanoma Cells.*Oxidative Medicine and Cellular Longevity*.doi.org/10.1155/2019/9817576.
12. Ma, J., Chen, L., He, X. X., Wang, Y. J., Yu, H. L., He, Z. X., ... & Zhu, X. J. (2019). Functional prediction and characterization of Dip2 gene in mice. *Cell biology international*.doi.org/10.1002/cbin.11106.
13. Cai, M., He, P., & Fang, D. L. Hypoxia-induced mitochondrial translocation of DNMI1 increases mitochondrial fission and triggers mPTP opening in HCC cells via activation of HK2. *Oncology Reports*.doi.org/10.3892/or.2019.7213
14. Guo, Z., Song, T., Xue, Z., Liu, P., Zhang, M., Zhang, X., & Zhang, Z. (2019). Using CETSA assay and a mathematical model to reveal dual Bcl-2/Mcl-1 inhibition and on-target mechanism for ABT-199 and S1. *European Journal of Pharmaceutical Sciences*, 105105.

### **Minute™ Total Protein Extraction Kit for Plant Tissues (SD-008/SN-009)**

1. Crystal R. et al. (2013). Expression profiling of four defense-related buffalograss transcripts in response to chinch bug (hemiptera: Blissidae) feeding. *Journal of Economic Entomology*. 106 (6):2568-2576.
2. Weber.C.et al.(2017). Microgreen Farming and Nutrition: A Discovery-Based Laboratory Module to Cultivate Biological and Information Literacy in Undergraduates. <http://www.bioone.org/doi/full/10.1525/abt.2017.79.5.375>
3. Abdulazeez, M., Abubakar, S. M., & Mu'azzam, J. M. (2017).Isolation and Characterization of a Potential Angiotensin-Converting Enzyme Inhibitory Peptide from the Leaves of *Leptadenia hastata* (Asclepiadaceae). *Malaysian Journal of Applied Sciences* 2017, Vol 2 (1): 35-47
4. Zihang Shi Yun JiangXin qi Han Xin Liu Ruishu Cao Mingfang Qi Tao Xu Tianlai Li (2017) .SIPIN1 regulates auxin efflux to affect flower abscission process. *Scientific Reports*. DOI: 10.1038/s41598-017-15072-7
5. Sho OhnoEmail authorWakako HoriMunetaka HosokawaFumi TatsuzawaMotoaki Doi(2018).Post-transcriptional silencing of chalcone synthase is involved in phenotypic lability in petals and leaves of bicolor dahlia (*Dahlia variabilis*) 'Yuino'.*Planta* February 2018, Volume 247, Issue 2, pp 413–428.DOI: 10.1007/s00425-017-2796-3
6. FG JESUS.et al(2018).Documenting Resistance and Physiological Changes in Soybean Challenged by *Aphis glycines* Matsumura (Hemiptera: Aphididae).*Neotrop Entomol*.doi.org/10.1007/s13744-018-0605-8
7. Zhiyuan Lv, Yan Huang , Bi Ma1 ,Zhonghuai Xiang , Ningjia He(2018).1LysM1 in MmLYK2 is a motif required for the interaction of MmLYP1 and MmLYK2 in the chitin signaling.*Plant Cell Reports*.doi.org/10.1007/s00299-018-2295-4.

8. Marchi-Werle, L., Fischer, H. D., Graef, G., Hunt, T. E., & Heng-Moss, T. M. (2018). Characterization and Identification of Methods for Phenotyping Soybean Populations With Tolerance to the Soybean Aphid (Hemiptera: Aphididae). *Journal of Economic Entomology*. doi.org/10.1093/jee/toy177.
9. Juan Wang et al (2018). A role of GUNs-Involved retrograde signaling in regulating Acetyl-CoA carboxylase 2 in Arabidopsis. *Biochemical and Biophysical Research Communications*. doi.org/10.1016/j.bbrc.2018.09.144.
10. Kaitlin M. Chapman, et al (2018). Abscisic and Jasmonic Acids Contribute to Soybean Tolerance to the Soybean Aphid (*Aphis glycines* Matsumura). *Scientific Reports*. DOI:10.1038/s41598-018-33477-w.
11. S Chen et al (2018). Cloning and functional analysis of the VcCXIP4 and VcYSL6 genes as Cd-regulating genes in blueberry. *Gene*. DOI: 10.1016/j.gene.2018.10.078
12. Nitzan Shabek et al (2018). Structural plasticity of D3–D14 ubiquitin ligase in strigolactone signalling. *Nature*. DOI: 10.1038/s41586-018-0743-5.
13. Li, P. C., Li, K., Wang, J., Zhao, C. Z., Zhao, S. Z., Hou, L., ... & Wang, X. J. (2019). The AAA-ATPase MIDASIN 1 Functions in Ribosome Biogenesis and Is Essential for Embryo and Root Development. *Plant physiology*, pp-01225. DOI:10.1104/pp.18.01225.
14. Peng, S., Huang, S., Liu, Z., & Feng, H. (2019). Mutation of ACX1, a Jasmonic Acid Biosynthetic Enzyme, Leads to Petal Degeneration in Chinese Cabbage (*Brassica campestris* ssp. *pekinensis*). *International Journal of Molecular Sciences*, 20(9), 2310. doi:10.3390/ijms20092310
15. Li, X., Li, N., & Xu, F. (2019). Increased autophagy of rice can increase yield and nitrogen use efficiency (NUE). *Frontiers in Plant Science*, 10, 584. doi: 10.3389/fpls.2019.00584
16. Fu, X., Shi, Z., Jiang, Y., Jiang, L., Qi, M., Xu, T., & Li, T. (2019). A family of auxin conjugate hydrolases from *Solanum lycopersicum* and analysis of their roles in flower pedicel abscission. *BMC Plant Biology*, 19(1), 233. doi.org/10.1186/s12870-019-1840-9
17. Yin, Z., Lu, J., Meng, S., Liu, Y., Mostafa, I., Qi, M., & Li, T. (2019). Exogenous melatonin improves salt tolerance in tomato by regulating photosynthetic electron flux and the ascorbate–glutathione cycle. *Journal of Plant Interactions*, 14(1), 453-463. doi.org/10.1080/17429145.2019.1645895
18. Zhen, X., Xu, F., Zhang, W., Li, N., & Li, X. (2019). Overexpression of rice gene OsATG8b confers tolerance to nitrogen starvation and increases yield and nitrogen use efficiency (NUE) in Arabidopsis. *PloS one*, 14(9), e0223011. doi.org/10.1371/journal.pone.0223011.
19. Chen, J., Cui, H., Ma, X., Ma, Y., & Li, X. Distribution Differences in the EPSPS Gene in Chromosomes Between Glyphosate-Resistant and-Susceptible Goosegrass (*Eleusine indica*). *Weed Science*, 1-28.

### Minute™ Chloroplast Isolation Kit (CP-011)

1. H Oh et al. (2015) Two complete chloroplast genome sequences of *Cannabis sativa* varieties Mitochondrial DNA. DOI:10.3109/19401736.2015.1053117.
2. Hu, D., Li, Y., Jin, W., Gong, H., He, Q., & Li, Y. (2017). Identification and Characterization of a Plastidic Adenine Nucleotide Uniporter (OsBT1-3) Required for Chloroplast Development in the Early Leaf Stage of Rice. *Scientific Reports* | 7:41355 | DOI: 10.1038/srep41355.

3. Kanazawa, A., Ostendorf, E., Kohzuma, K., Hoh, D., Strand, D. D., Sato-Cruz, M., ... & Kramer, D. M. (2017). Chloroplast ATP Synthase Modulation of the Thylakoid Proton Motive Force: Implications for Photosystem I and Photosystem II Photoprotection. *Front. Plant Sci.*, 03 May 2017 | DOI: [org/10.3389/fpls.2017.00719](https://doi.org/10.3389/fpls.2017.00719)
4. Suzuki, J.Y., Geib, S.M., Carlsen, M.M., Henriquez, C.L., Amore, T.D., Sim, S.B., Matsumoto, T.K., Keith, L.M. and Myers, R.Y. (2017). Development of chloroplast single nucleotide polymorphisms (SNPs) as a tool towards interspecies typing of *Anthurium* germplasm. *Acta Hort.* 1167, 257-270
5. H ShuoHao et al (2018). Identification and characterization of a pyridoxal 5' -phosphate phosphatase in tobacco plants. *Plant science*. [doi.org/10.1016/j.gene.2018.10.078](https://doi.org/10.1016/j.gene.2018.10.078).
6. Fuli Ma et al (2019). Dynamic translocation of stilbene synthase VpSTS29 from a Chinese wild *Vitis* species upon UV irradiation. *Phytochemistry*. [doi.org/10.1016/j.phytochem.2018.12.019](https://doi.org/10.1016/j.phytochem.2018.12.019).
7. Ren, R. C., Wang, L. L., Zhang, L., Zhao, Y. J., Wu, J. W., Wei, Y. M., ... & Zhao, X. Y. DEK43 is a P - type PPR Protein Responsible for the Cis - splicing of nad4 in Maize Mitochondria. *Journal of Integrative Plant Biology*. [doi: 10.1111/jipb.12843](https://doi.org/10.1111/jipb.12843).
8. Lee, S., Joung, Y. H., Kim, J. K., Do Choi, Y., & Jang, G. (2019). An isoform of the plastid RNA polymerase-associated protein FSD3 negatively regulates chloroplast development. *BMC Plant Biology*, 19(1), 524.
9. Yin, B., Zhang, J., Liu, Y., Pan, X., Zhao, Z., Li, H., ... & Liu, D. (2019). PtomtAPX, a mitochondrial ascorbate peroxidase, plays an important role in maintaining the redox balance of *Populus tomentosa* Carr. *Scientific Reports*, 9(1), 1-15.

### Minute™ Single Cell Isolation Kit (SC-012)

1. Chun-Ting Kuo, et al. (2016) . Optical painting and fluorescence activated sorting of single adherent cells labelled with photoswitchable Pdots. *NATURE COMMUNICATIONS* | 7:11468 | DOI:10.1038 /ncomms11468 | [www.nature.com/naturecommunications](http://www.nature.com/naturecommunications)
2. Bultmann-Mellin, I., Dinger, K., Debuschewitz, C., Loewe, K. M., Melcher, Y., Plum, M. T., ... & Jünger, C. (2017). Role of LTBP-4 in alveolarization, angiogenesis and fibrosis in lungs. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, ajplung-00031.
3. Vergara, M. N., Flores-Bellver, M., Aparicio-Domingo, S., McNally, M., Wahlin, K. J., Saxena, M. T., ... & Canto-Soler, M. V. (2017). Enabling quantitative screening in retinal organoids: 3D automated reporter quantification technology (3D-ARQ). *Development* 2017 : DOI: 10.1242/dev.146290
4. Janicova, A., Becker, N., Xu, B., Wutzler, S., Vollrath, T., Hildebrand, F., ... & Relja, B. (2019). Endogenous uteroglobin as intrinsic anti-inflammatory signal modulates monocyte and macrophage subsets distribution upon sepsis induced lung injury. *Frontiers in Immunology*, 10, 2276.

### Minute™ Nuclear Envelope Protein Extraction Kit (NE-013)

1. Frias A. et al. (2016). A Switch in Akt Isoforms Is Required for Notch-Induced Snail1 Expression and Protection from Cell Death. *Mol Cell Biol.* 2016 Mar 15; 36(6): 913–922. Prepublished online 2015 Dec 28. Published online 2016 Mar 1. doi: 10.1128/MCB.00842-15
2. Selby, T. L., Biel, N., Varn, M., Patel, S., Patel, A., Hilding, L., ... & Lowrey, A. J. (2019). The Epstein-Barr Virus Oncoprotein, LMP1, Regulates the Function of SENP2, a SUMO-protease. *Scientific Reports*, 9(1), 9523.doi.org/10.1038/s41598-019-45825-5

### **Minute™ Total Protein Extraction Kit for Microbes with Thick Cell Walls (YT-015)**

1. Nagayoshi, Y., Miyazaki, T., Shimamura, S., Nakayama, H., Minematsu, A., Yamauchi, S., ... & Mukae, H. (2017). Unexpected effects of azole transporter inhibitors on antifungal susceptibility in *Candida glabrata* and other pathogenic *Candida* species. *PloS one*, 12(7), e0180990.
2. Ahmad Al-Omari et al (2018). Discovering regulators in Post-Transcriptional control of the Biological Clock of *Neurospora crassa* using Variable Topology Ensemble Methods on GPUs. *IEEE Access*. DOI: 10.1109/ACCESS.2018.2871876.
3. Mia Terashima, et al (2018). Antarctic heterotrophic bacterium *Hymenobacter nivis* P3T displays light-enhanced growth and expresses putative photoactive proteins. *Environ Microbiol Rep*. doi: 10.1111/1758-2229.12702.
4. W Lin et al (2018). The cellular and molecular mechanism of glutaraldehyde-didecyldimethylammonium bromide as a disinfectant against *Candida albicans*. *Applied Microbiology*. doi: 10.1111/jam.14142.
5. Shimamura, S., Miyazaki, T., Tashiro, M., Takazono, T., Saijo, T., Yamamoto, K., ... & Mukae, H. (2019). Autophagy-Inducing Factor Atg1 Is Required for Virulence in the Pathogenic Fungus *Candida glabrata*. *Frontiers in microbiology*, 10.
6. Wang, Y., Ma, Y., Wang, D., Liu, W., Chen, J., Jiang, Y., ... & Qin, L. (2019). Polar tube structure and three polar tube proteins identified from *Nosema pernyi*. *Journal of Invertebrate Pathology*, 107272.

### **Minute™ Detergent-Free Protein Extraction Kit for Microbes with Thick Cell Walls (YD-016)**

1. Guanghua Peng et al (2019): Alkylrhamnositides, a series of amphiphilic materials exerting broad-spectrum anti-biofilm activity against pathogenic bacteria via multiple mechanisms, *Artificial Cells, Nanomedicine, and Biotechnology*, DOI: 10.1080/21691401.2018.1491474

### **Minute™ Yeast Mitochondria Enrichment Kit (YM-017)**

1. Yamashita, K., Miyazaki, T., Fukuda, Y., Mitsuyama, J., Saijo, T., Shimamura, S., ... & Kohno, S. (2019). The novel arylamidine T-2307 selectively disrupts yeast mitochondrial function by inhibiting respiratory chain complexes. *Antimicrobial Agents and Chemotherapy*, AAC-00374.doi:10.1128/AAC.00374-19

### **Minute™ Plant Microsomal Membrane Extraction Kit (MM-018)**

1. Soohong Kim et al (2018). Endoplasmic reticulum stress - induced accumulation of VAMP721/722 requires CALRETICULIN 1 and CALRETICULIN 2 in Arabidopsis. *Journal of Integrative Plant Biology*. doi.org/10.1111/jipb.12728.

### Minute™ Total Protein Extraction Kit for Adipose Tissue/Cultured cells (AT-022)

1. Wang, N., Liu, Y., Ma, Y., & Wen, D. (2017). High-intensity interval versus moderate-intensity continuous training: Superior metabolic benefits in diet-induced obesity mice. *Life Sciences*.
2. Qiantao Zheng(2017),Reconstitution of UCP1 using CRISPR/Cas9 in the white adipose tissue of pigs decreases fat deposition and improves thermogenic capacity. [www.pnas.org/cgi/doi/10.1073/pnas.1707853114](http://www.pnas.org/cgi/doi/10.1073/pnas.1707853114)
3. Li et al (2017).High Efficiency Protein Extraction from Adipose Tissues3. *BioTechniques* 63:191 (November 2017) DOI: 10.2144/000114601
4. Micah L. Battson, Dustin M Lee, Dillon K Jarrell, Shuofei Hou, Kayl E Ecton, Tiffany L Weir, and Christopher L Gentile (2017) .Suppression of Gut Dysbiosis Reverses Western Diet-Induced Vascular Dysfunction. *AM J PHYSIOL-ENDOC M* doi.org/10.1152/ajpendo.00187.2017
5. Guizong Chen, Qin Li ,Yanping Luo, Tao Liu, Shaolong ,Zhou Er Pan, Lixia Peng(2018).Effect of Notoginsenoside R1 on autologous adipose graft in rats.spandidos-publications.com. doi.org/10.3892/mmr.2018.8596
6. Tianxing Chen,Xiaoying Cheng,Yun Wang,Wu Yin (2018) .Toosendanin inhibits adipogenesis by activating Wnt/  $\beta$ -catenin signaling.SCIentific REPorTS. DOI:10.1038/s41598-018-22873-x
7. N Wang ,Y Liu ,Y Ma ,D Wen (2018).Hydroxytyrosol ameliorates insulin resistance by modulating endoplasmic reticulum stress and prevents hepatic steatosis in diet-induced obesity mice. *Journal of Nutritional Biochemistry* , doi.org/10.1016/j.jnutbio.2018.03.018
8. Weijie Du, Arnold Piek, E. Marloes Schouten, Cees W.A. van de Kolk, Christian Mueller, Alexandre Mebazaa, Adriaan A. Voors, Rudolf A. de Boer,Herman H.W. Sillje(2018).Plasma levels of heart failure biomarkers are primarily a reflection of extracardiac production.Theranostics . doi: 10.7150/thno.26055
9. Melissa Hann(2018).Anti-inflammatory Activity of Isomaltodextrin in a C57BL/6NCrI Mouse Model with Lipopolysaccharide-induced Low-grade Chronic Inflammation. <http://hdl.handle.net/10214/14124>.
10. Raffael Ott et al (2018). Reduced insulin receptor expression and altered DNA methylation in fat tissues and blood of women with GDM and offspring.*The Journal of Clinical Endocrinology & Metabolism*, jc.2018-01659, doi.org/10.1210/jc.2018-01659.
11. Lei Liu, Ningning Wang et al (2018).Saponins from *Boussingaultia gracilis* prevent obesity and related metabolic impairments in diet-induced obese mice. *Food Funct*. DOI: 10.1039/C8FO01264D.
12. SJ Yue (2018).Berberine alleviates insulin resistance by reducing peripheral branched-chain amino acids.*Am J Physiol Endocrinol Metab*. 2018 Nov 13. doi: 10.1152/ajpendo.00256.2018.
13. Shah, A. P., Johnson, M. D., Fu, X., Boersma, G. J., Shah, M., Wolfgang, M. J., ... & Baraban, J. M. (2019). Deletion of translin (Tsn) induces robust adiposity and hepatic steatosis without impairing glucose tolerance. *International Journal of Obesity*.doi.org/10.1038/s41366-018-0315-7.
14. Li M et al(2019). TNF- $\alpha$  Upregulates IKK $\epsilon$  Expression via the Lin28B/let-7a Pathway to Induce Catecholamine Resistance in Adipocytes.*Obesity (Silver Spring)*. Doi: 10.1002/oby.22434.
15. Jahandideh, F., de Campos Zani, S. C., Son, M., Proctor, S. D., Davidge, S. T., Chan, C. B., & Wu, J. (2019). Egg



white hydrolysate enhances insulin sensitivity in high fat diet induced insulin resistant rats via AKT activation. *British Journal of Nutrition*, 1-25. DOI10.1017/S0007114519000837.

16. Zhang, F., Li, D., Wu, Q., Sun, J., Guan, W., Hou, Y., ... & Wang, J. (2019). Prepartum body conditions affect insulin signaling pathways in postpartum adipose tissues in transition dairy cows. *Journal of Animal Science and Biotechnology*, 10(1), 38. doi.org/10.1186/s40104-019-0347-4
17. Wang, N., Ma, Y., Liu, Z., Liu, L., Yang, K., Wei, Y., ... & Wen, D. (2019). Hydroxytyrosol prevents PM2. 5-induced adiposity and insulin resistance by restraining oxidative stress related NF-κB pathway and modulation of gut microbiota in a murine model. *Free Radical Biology and Medicine*, 141, 393-407. Zani, S. (2019).
18. Campos Zani, S. C (2019) .Exploratory study of egg white hydrolysate mechanisms of action in insulin sensitive tissues of high fat diet-induced insulin resistant rats. doi.org/10.7939/r3-vpcv-w240

### **Minute™ Adipose Tissue Fractionation Kit (AF-023)**

1. Markan, K. R., Naber, M. C., Small, S. M., Peltekian, L., Kessler, R. L., & Potthoff, M. J. (2017). FGF21 resistance is not mediated by downregulation of beta-klotho expression in white adipose tissue. *Molecular Metabolism*. doi.org/10.1016/j.molmet.2017.03.009
2. Liu, X., Tong, W., Zhao, X., Zhang, H., Tang, Y., & Deng, X. Chinese herb extract improves liver steatosis by promoting the expression of high molecular weight adiponectin in NAFLD rats. *Molecular Medicine Reports*.
3. Subbaramaiah K et al (2018). Prostaglandin E2 down-regulates sirtuin 1 (SIRT1) leading to elevated levels of aromatase, providing insights into the obesity-breast cancer connection. *J Biol Chem*. 2018 Nov 8. pii: jbc.RA118.005866. doi: 10.1074/jbc.RA118.005866.

### **Minute™ Detergent-Free Nuclei Isolation Kit (NI-024)**

1. Boerhan, R., Sun, W., Tian, N., Wang, Y., Lu, J., Li, C., ... & Zhou, Q. X. (2019). Fluorination on non-photolabile dppz ligand improving Ru (II) complex-based photoactivated chemotherapy. *Dalton Transactions*

### **Minute™ Hi-Efficiency Exosome Precipitation Reagent( EI-027)**

1. Haihong Bai, Yiting Pan, Lu Qi, Long Liu, Xinyuan Zhao, Hangyan Dong, Xiaoqiang Cheng, Weijie Qin, Xinghe Wang (2018). Development a hydrazide-functionalized thermosensitive polymer based homogeneous system for highly efficient N-glycoprotein/glycopeptide enrichment from human plasma exosome. *Talanta* 186 (2018) 513-520. https://doi.org/10.1016/j.talanta.2018.04.098.
2. fangyuan gao et al (2018). A novel strategy for facile serum exosome isolation based on specific interactions between phospholipid bilayers and TiO2. *Chem. Sci.*, DOI: 10.1039/C8SC04197K.
3. Tan, Y., Nie, W., Chen, C., He, X., Xu, Y., Ma, X., ... & Wang, W. (2019). Mesenchymal stem cells alleviate hypoxia-induced oxidative stress and enhance the pro-survival pathways in porcine islets. *Experimental Biology and Medicine*, 1535370219844472. DOI: 10.1177/1535370219844472

### **Minute™ Nuclei and Cytosol Isolation Kit for Adipose Tissues(AN-029)**

1. Rajbhandari, P., Arneson, D., Feng, A. C., Ahn, I. S., Diamante, G., Zaghari, N., ... & Smale, S. T. (2019). Single Cell Analysis Reveals Immune Cell-Adipocyte Crosstalk Regulating the Transcription of Thermogenic Adipocytes. bioRxiv, 669853.doi.org/10.1101/669853

### **Minute™ Hi-Efficiency Saliva Exosome Isolation Kit( SE-030)**

1. Kyung-A Hyun , Hogyong Gwak, Jaehun Lee, Bongseop Kwak , OrcID and Hyo-Il Jung(2018). Salivary Exosome and Cell-Free DNA for Cancer Detection.Micromachines 2018, 9(7), 340; doi.org/10.3390/mi9070340.
2. Jia, Y., Wang, C., Sun, H., & Ni, Z. (2019). Microfluidic Approaches Toward the Isolation and Detection of Exosome Nanovesicles. IEEE Access.DOI: 10.1109/ACCESS.2019.2907123

### **Minute™ Endosome Isolation and Cell Fractionation Kit(ED-028)**

1. Xiaoqing Xu, Jia Xu, Jiacheng Wu, Ye Hu, Yanmei Han, Yan Gu, Kai Zhao, Qian Zhang, Xingguang Liu, Juan Liu, Bing Liu, and Xuetao Cao (2018).Phosphorylation-Mediated IFN- $\gamma$ R2 Membrane Translocation Is Required to Activate Macrophage Innate Response.cell.doi.org/10.1016/j.cell.2018.09.011.
2. Drelich A et al (2018).Exchange Protein Directly Activated by cAMP Modulates Ebola Virus Uptake into Vascular Endothelial Cells. Viruses. doi: 10.3390/v10100563.

### **Minute™ Denaturing Protein Solubilization Reagent (WA-009)**

1. Xiaoqing Xu, Jia Xu, Jiacheng Wu, Ye Hu, Yanmei Han, Yan Gu, Kai Zhao, Qian Zhang, Xingguang Liu, Juan Liu, Bing Liu, and Xuetao Cao (2018).Phosphorylation-Mediated IFN- $\gamma$ R2 Membrane Translocation Is Required to Activate Macrophage Innate Response.cell.doi.org/10.1016/j.cell.2018.09.011.
2. Peng, W., Tong, C., Li, L., Huang, C., Ran, Y., Chen, X., ... & Luo, X. (2019). Trophoblastic proliferation and invasion regulated by ACTN4 is impaired in early onset preeclampsia. The FASEB Journal, fj-201802058RR.Doi: 10.1096/fj.201802058RR
3. Ghosh, M., Lo, R., Ivic, I., Aguilera, B., Qendro, V., Devarakonda, C., & Shapiro, L. H. (2019). CD13 tethers the IQGAP1-ARF6-EFA6 complex to the plasma membrane to promote ARF6 activation,  $\beta$ 1 integrin recycling, and cell migration. Signal., 12(579), eaav5938.DOI: 10.1126/scisignal.aav5938

### **Minute™ Native Protein Solubilization Reagent (WA-010)**

1. Zhao JL, Zhang LQ, Liu N,et al (2019).Mutual regulation of receptor-like kinase SIT1 and B'κ-PP2A shapes the early response of rice to salt stress.Plant Cell. 2019 Sep;31(9):2131-2151. doi: 10.1105/tpc.18.00706.

### **Minute™ Protein/Nucleic Acid Extraction Kit from Gels( PN-019)**

1. Chowdhury, M. K., Jahan, M. S., Akhtar, S., Islam, M. A., Islam, M. A., Sikdar, B., & Hasan, M. F. Characterization of fungal pathogens causing diseases in bitter melon and establishment of their eco-friendly control measure.

更多信息和活动请扫描  
二维码关注官方公众号



英文特生物技术（北京）有限公司. [www.inventchina.cn](http://www.inventchina.cn) TEL: 4006468368 [support@inventbiotech.com](mailto:support@inventbiotech.com)