2015 年实验室发表论文

序号	论文	署名单位	通讯作者	影响因子
1	Wang XX, Ren JS, Gao Q, Hu ZY, Sun Y, Li XM, Rowlands DJ, Yin WD, Wang JZ, Stuart DI, Rao ZH, Fry EE. Hepatitis A virus and the origins of picornaviruses. *Nature* 2015;517(7532):85-88.	1	饶子和	41.46
2	Shi JJ, Zhao Y, Wang K, Shi XY, Wang Y, Huang HW, Zhuang YH, Cai T, Wang FC, Shao F. Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death. *Nature* 2015;526(7575):660-665.	3	邵峰	41.46
3	Guo X, Wang L, Li J, Ding ZY, Xiao JX, Yin XT, He S, Shi P, Dong LP, Li GH, Tian CL, Wang JW, Cong Y, Xu YH. Structural insight into autoinhibition and histone H3-induced activation of DNMT3A. *Nature* 2015;517(7536):640-U281.	7	Xu YH	41.46
4	Zhang WQ, Li JY, Suzuki K, Qu J, Wang P, Zhou JZ, Liu XM, Ren RT, Xu XL, Ocampo A, Yuan TT, Yang JP, Li Y, Shi L, Guan D, Pan HZ, Duan SL, Ding ZC, Li M, Yi F, Bai RJ, Wang YY, Chen C, Yang FQ, Li XY, Wang ZM, Aizawa E, Goebl A, Soligalla RD, Reddy P, Esteban CR, Tang FC, Liu GH, Belmonte JCI. A Werner syndrome stem cell model unveils heterochromatin alterations as a driver of human aging. *Science* 2015;348(6239):1160-1168.	1	刘光慧	33.61
5	Zhang LM, Chen SB, Ruan JB, Wu JY, Tong AB, Yin Q, Li Y, David L, Lu A, Wang WL, Marks C, Ouyang Q, Zhang XZ, Mao YD, Wu H. Cryo-EM structure of the activated NAIP2-NLRC4 inflammasome reveals nucleated polymerization. *Science* 2015;350(6259):404-409.	7	Wu H	33.61
6	Ma DKK, Li ZJ, Lu AY, Sun F, Chen SD, Rothe M, Menzel R, Horvitz HR. Acyl-CoA Dehydrogenase Drives Heat Adaptation by Sequestering Fatty Acids. *Cell* 2015;161(5):1152-1163.	2	MA DKK	32.24
7	Reddy P, Ocampo A, Suzuki K, Luo J, Bacman SR, Williams SL, Sugawara A, Okamura D, Tsunekawa Y, Wu J, Lam D, Xiong X, Montserrat N, Esteban CR, Liu GH, Sancho-Martinez I, Manau D, Civico S, Cardellach F, O'Callaghan MD, Campistol J, Zhao H, Campistol JM, Moraes CT, Belmonte JCI. Selective Elimination of Mitochondrial Mutations in the Germline by Genome Editing. *Cell* 2015;161(3):459-469.	6	Belmonte JCI	32.24
8	Wu F, Watanabe Y, Guo XY, Qi X, Wang P, Zhao HY, Wang Z, Fujioka Y, Zhang H, Ren JQ, Fang TC, Shen YX, Feng W, Hu JJ,	1	张宏	14.02

	Noda NN. Structural Basis of the Differential Function of the Two C. elegans Atg8 Homologs, LGG-1 and LGG-2, in Autophagy. *Molecular Cell* 2015;60(6):914-929.			
9	Chang SH, Sun DP, Liang HH, Wang J, Li J, Guo L, Wang XL, Guan CC, Boruah BM, Yuan LM, Feng F, Yang MR, Wang LL, Wang Y, Wojdyla J, Li LJ, Wang JW, Wang MT, Cheng GH, Wang HW, Liu YF. Cryo-EM Structure of Influenza Virus RNA Polymerase Complex at 4.3 angstrom Resolution. *Molecular Cell* 2015;57(5):925-935.	1	刘迎芳	14.02
10	Fan MR, Li M, Liu ZF, Cao P, Pan XW, Zhang HM, Zhao XL, Zhang JP, Chang WR. Crystal structures of the PsbS protein essential for photoprotection in plants. *Nature Structural & Molecular Biology* 2015;22(9):729-U115.	1	常文瑞，李梅	13.31
11	Yang XY, Wang S, Sheng Y, Zhang MS, Zou WJ, Wu LJ, Kang LJ, Rizo J, Zhang RG, Xu T, Ma C. Syntaxin opening by the MUN domain underlies the function of Munc13 in synaptic-vesicle priming. *Nature Structural & Molecular Biology* 2015;22(7):547-54.	2	徐涛	13.31
12	Kong RR, Yi FS, Wen PS, Liu JH, Chen XP, Ren JQ, Li XF, Shang YL, Nie YZ, Wu KC, Fan DM, Zhu L, Feng W, Wu JY. Myo9b is a key player in SLIT/ROBO-mediated lung tumor suppression. *Journal of Clinical Investigation* 2015;125(12):4407-4420.	2	吴瑛，冯巍	13.26
13	Zhou XM, Shimanovich U, Herling TW, Wu S, Dobson CM, Knowles TPJ, Perrett S. Enzymatically Active Microgels from Self-Assembling Protein Nanofibrils for Microflow Chemistry. *Acs Nano* 2015;9(6):5772-5781.	1	柯 莎，Knowles TPJ	12.88
14	Men D, Zhang TT, Hou LW, Zhou J, Zhang ZP, Shi YY, Zhang JL, Cui ZQ, Deng JY, Wang DB, Zhang XE. Self-Assembly of Ferritin Nanoparticles into an Enzyme Nanocomposite with Tunable Size for Ultrasensitive Immunoassay. *Acs Nano* 2015;9(11):10852-10860.	2	张先恩	12.88
15	Li CY, Li F, Zhang YJ, Zhang WJ, Zhang XE, Wang QB. Real-Time Monitoring Surface Chemistry-Dependent In Vivo Behaviors of Protein Nanocages via Encapsulating an NIR-II Ag2S Quantum Dot. *Acs Nano* 2015;9(12):12255-12263.	3	Li F	12.88
16	Heng J, Zhao Y, Liu M, Liu Y, Fan JP, Wang XP, Zhao YF, Zhang XJC. Substrate-bound structure of the E. coli multidrug resistance transporter MdfA. *Cell Research* 2015;25(9):1060-1073.	1	张凯	12.41
17	Wang LX, Wu J, Fang WW, Liu GH, Belmonte JCI. Regenerative medicine: targeted genome editing in vivo. *Cell Research* 2015;25(3):271-272.	1	刘光慧，Belmonte JCI	11.90
18	Zhao YG, Sun L, Miao GY, Ji CC, Zhao HY, Sun HY, Miao L,	1	张宏	11.75

	Yoshii SR, Mizushima N, Wang XQ, Zhang H. The autophagy gene Wdr45/Wipi4 regulates learning and memory function and axonal homeostasis. *Autophagy* 2015;11(6):881-890.			
19	Zhang H, Chang JT, Guo B, Hansen M, Jia KL, Kovacs AL, Kumsta C, Lapierre LR, Legouis R, Lin L, Lu Q, Melendez A, O'Rourke EJ, Sato K, Sato M, Wang XC, Wu F. Guidelines for monitoring autophagy in Caenorhabditis elegans. *Autophagy* 2015;11(1):9-27.	1	张宏	11.75
20	Zhang H, Chang JT, Guo B, Hansen M, Jia KL, Kovacs AL, Kumsta C, Lapierre LR, Legouis R, Lin L, Lu Q, Melendez A, O'Rourke EJ, Sato K, Sato M, Wang XC, Wu F. Guidelines for monitoring autophagy in Caenorhabditis elegans. *Autophagy* 2015;11(1):9-27.	1	张宏	11.75
21	Xing MT, Yang MR, Huo W, Feng F, Wei LZ, Jiang WX, Ning SK, Yan ZX, Li W, Wang QS, Hou M, Dong CX, Guo R, Gao G, Ji JG, Zha S, Lan L, Liang HH, Xu DY. Interactome analysis identifies a new paralogue of XRCC4 in non-homologous end joining DNA repair pathway. *Nature Communications* 2015;6.	2	Xu DY	11.47
22	Liu B, Ouyang SY, Makarova KS, Xia Q, Zhu YP, Li ZM, Guo L, Koonin EV, Liu ZJ, Huang L. A primase subunit essential for efficient primer synthesis by an archaeal eukaryotic-type primase. *Nature Communications* 2015;6.	2	刘志杰	11.47
23	Zhu L, Wang XX, Ren J, Porta C, Wenham H, Ekstrom JO, Panjwani A, Knowles NJ, Kotecha A, Siebert CA, Lindberg AM, Fry EE, Rao Z, Tuthill TJ, Stuart DI. Structure of Ljungan virus provides insight into genome packaging of this picornavirus. *Nature Communications* 2015;6.	3	饶子和	11.47
24	Fang JN, Liu YT, Wei Y, Deng WQ, Yu ZL, Huang L, Teng Y, Yao T, You QL, Ruan HH, Chen P, Xu RM, Li GH. Structural transitions of centromeric chromatin regulate the cell cycle-dependent recruitment of CENP-N. *Genes & Development* 2015;29(10):1058-1073.	1	李国红	10.80
25	Cao DF, Wang MZ, Qiu XY, Liu DX, Jiang HL, Yang N, Xu RM. Structural basis for allosteric, substrate-dependent stimulation of SIRT1 activity by resveratrol. *Genes & Development* 2015;29(12):1316-1325.	1	许瑞明，杨娜	10.80
26	Liu N, Zhang ZQ, Wu H, Jiang YH, Meng LJ, Xiong J, Zhao ZD, Zhou XH, Li J, Li H, Zheng Y, Chen S, Cai T, Gao SR, Zhu B. Recognition of H3K9 methylation by GLP is required for efficient establishment of H3K9 methylation, rapid target gene repression, and mouse viability. *Genes & Development* 2015;29(4):379-393.	3	朱冰	10.80
27	Duan S, Yuan G, Liu X, Ren R, Li J, Zhang W, Wu J, Xu X, Fu L, Li Y, Yang J, Zhang W, Bai R, Yi F, Suzuki K, Gao H, Esteban CR, Zhang C, Belmonte JC, Chen Z, Wang X, Jiang T,	1	刘光慧，汤富酬	10.74

	Qu J, Tang F, Liu GH. PTEN deficiency reprograms human neuralstem cells towards a glioblastoma stem cell-like phenotype. Nat Commun. 2015. 6:10068			
28	Yan LM, Sun S, Wang W, Shi JM, Hu XY, Wang SY, Su D, Rao ZH, Hu JJ, Lou ZY. Structures of the yeast dynamin-like GTPase Sey1p provide insight into homotypic ER fusion. *Journal of Cell Biology* 2015;210(6):961-972.	4	胡俊杰	9.83
29	Yu ZL, Zhou X, Wang WJ, Deng WQ, Fang JN, Hu H, Wang ZC, Li SZ, Cui L, Shen J, Zhai LH, Peng SY, Wong JM, Dong S, Yuan ZQ, Ou GS, Zhang XD, Xu P, Lou JZ, Yang N, Chen P, Xu RM, Li GH. Dynamic Phosphorylation of CENP-A at Ser68 Orchestrates Its Cell-Cycle-Dependent Deposition at Centromeres. *Developmental Cell* 2015;32(1):68-81.	1	李国红	9.71
30	Liang X, Dong XT, Moerman DG, Shen K, Wang XM. Sarcomeres Pattern Proprioceptive Sensory Dendritic Endings through UNC-52/Perlecan in C. elegans. *Developmental Cell* 2015;33(4):388-400.	1	沈康	9.71
31	Yuan TY, Liu L, Zhang YD, Wei LS, Zhao SQ, Zheng XL, Huang XS, Boulanger J, Gueudry C, Lu JZ, Xie LH, Du W, Zong WJ, Yang L, Salamero J, Liu YM, Chen LY. Diacylglycerol Guides the Hopping of Clathrin-Coated Pits along Microtubules for Exo-Endocytosis Coupling. *Developmental Cell* 2015;35(1):120-130.	3	Liuym	9.71
32	Yang N, Yu ZY, Hu ML, Wang MZ, Lehmann R, Xu RM. Structure of Drosophila Oskar reveals a novel RNA binding protein. *Proceedings of the National Academy of Sciences of the United States of America* 2015;112(37):11541-11546.	1	Ruth Lehmann nc, 杨娜，许瑞明	9.67
33	Li J, Guo JL, Ou XM, Zhang MF, Li YZ, Liu ZF. Mechanical coupling of the multiple structural elements of the large-conductance mechanosensitive channel during expansion. *Proceedings of the National Academy of Sciences of the United States of America* 2015;112(34):10726-10731.	1	柳振峰	9.67
34	Ma YY, Wu LJ, Shaw N, Gao Y, Wang J, Sun YN, Lou ZY, Yan LM, Zhang RG, Rao ZH. Structural basis and functional analysis of the SARS coronavirus nsp14-nsp10 complex. *Proceedings of the National Academy of Sciences of the United States of America* 2015;112(30):9436-9441.	3	张荣光	9.67
35	Liu TY, Bian X, Romano FB, Shemesh T, Rapoport TA, Hu JJ. Cis and trans interactions between atlastin molecules during membrane fusion. *Proceedings of the National Academy of Sciences of the United States of America* 2015;112(15):E1851-E1860.	5	Rapoport TA	9.67
36	Wei XP, Guo JT, Li M, Liu ZF. Structural Mechanism	1	柳振峰	9.34

	Underlying the Specific Recognition between the Arabidopsis State-Transition Phosphatase TAP38/PPH1 and Phosphorylated Light-Harvesting Complex Protein Lhcb1. *Plant Cell* 2015;27(4):1113-1127.			
37	Chen MH, Li W, Zhang ZP, Liu SY, Zhang XW, Zhang XE, Cui ZQ. Novel near-infrared BiFC systems from a bacterial phytochrome for imaging protein interactions and drug evaluation under physiological conditions. *Biomaterials* 2015;48:97-107.	2	张先恩	8.56
38	Wang XY, Wang DB, Zhang ZP, Bi LJ, Zhang JB, Ding W, Zhang XE. A S-Layer Protein of Bacillus anthracis as a Building Block for Functional Protein Arrays by In Vitro Self-Assembly. *Small* 2015;11(43):5826-5832.	1	张先恩	8.37
39	Liu W, Chen YT, Jiang X, Xia M, Yang Y, Tan M, Li XM, Rao ZH. A Unique Human Norovirus Lineage with a Distinct HBGA Binding Interface. *Plos Pathogens* 2015;11(7).	2	饶子和	7.56
40	De Colibus L, Wang XX, Tijsma A, Neyts J, Spyrou JAB, Ren JS, Grimes JM, Puerstinger G, Leyssen P, Fry EE, Rao ZH, Stuart DI. Structure Elucidation of Coxsackievirus A16 in Complex with GPP3 Informs a Systematic Review of Highly Potent Capsid Binders to Enteroviruses. *PLoS Pathogens* 2015;11(10).	2	饶子和	7.56
41	Crooks ET, Tong T, Chakrabarti B, Narayan K, Georgiev IS, Menis S, Huang XX, Kulp D, Osawa K, Muranaka J, Stewart-Jones G, Destefano J, O'Dell S, LaBranche C, Robinson JE, Montefiori DC, McKee K, Du SX, Doria-Rose N, Kwong PD, Mascola JR, Zhu P, Schief WR, Wyatt RT, Whalen RG, Binley JM. Vaccine-Elicited Tier 2 HIV-1 Neutralizing Antibodies Bind to Quaternary Epitopes Involving Glycan-Deficient Patches Proximal to the CD4 Binding Site. *Plos Pathogens* 2015;11(5).	5	Binley, James	7.56
42	Yang JL, Zhao Y, Shao F. Non-canonical activation of inflammatory caspases by cytosolic LPS in innate immunity. *Current Opinion in Immunology* 2015;32:78-83.	1	邵峰	7.48
43	Du YP, Cai TX, Li TT, Xue P, Zhou B, He XL, Wei P, Liu PS, Yang FQ, Wei TT. Lysine Malonylation Is Elevated in Type 2 Diabetic Mouse Models and Enriched in Metabolic Associated Proteins. *Molecular & Cellular Proteomics* 2015;14(1):227-236.	1	卫涛涛，杨福全	6.56
44	Rees JS, Li XW, Perrett S, Lilley KS, Jackson AP. Protein Neighbors and Proximity Proteomics. *Molecular & Cellular Proteomics* 2015;14(11):2848-2856.	2	柯 莎，Lilley KS, Jackson AP	6.56
45	Rees JS, Li XW, Perrett S, Lilley KS, Jackson AP. Protein Neighbors and Proximity Proteomics. *Molecular & Cellular Proteomics* 2015;14(11):2848-2856.	3	柯莎	6.56
46	Wang DB, Tian B, Zhang ZP, Wang XY, Fleming J, Bi LJ, Yang	1	张先恩	6.41

	RF, Zhang XE. Detection of Bacillus anthracis spores by super-paramagnetic lateral-flow immunoassays based on "Road Closure". *Biosensors & Bioelectronics* 2015;67:608-614.			
47	Zhang B, Wang J, Huang Z, Wei P, Liu Y, Hao JF, Zhao LJ, Zhang FL, Tu YP, Wei TT. Aberrantly upregulated TRAP1 is required for tumorigenesis of breast cancer. *Oncotarget* 2015;6(42):44495-44508.	1	卫涛涛	6.36
48	Hu S, Sun Y, Meng YC, Wang XZ, Yang WL, Fu WY, Guo HZ, Qian WZ, Hou S, Li BH, Rao ZH, Lou ZY, Guo YJ. Molecular architecture of the ErbB2 extracellular domain homodimer. *Oncotarget* 2015;6(3):1695-1706.	3	饶子和	6.36
49	Cao P, Xie Y, Li M, Pan XW, Zhang HM, Zhao XL, Su XD, Cheng T, Chang WR. Crystal Structure Analysis of Extrinsic PsbP Protein of Photosystem II Reveals a Manganese-Induced Conformational Change. *Molecular Plant* 2015;8(4):664-666.	1	常文瑞，李梅	6.34
50	Cao D, Lin XP,Zhang ZP, Li W, Men D, Zhang XE, Cui ZQ. Intracellular cargo delivery by virus capsid protein-based vehicles: From nano to micro.Nanomedicine: Nanotechnology, Biology, and Medicine 2016, 12(2):365-376	4	崔宗强	6.16
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52	Zhang B, Chu W, Wei P, Liu Y, Wei TT. Xanthohumol induces generation of reactive oxygen species and triggers apoptosis through inhibition of mitochondrial electron transfer chain complex I. *Free Radical Biology and Medicine* 2015;89:486-497.	1	卫涛涛	5.74
53	Wang L, Wang X, Wang CC. Protein disulfide-isomerase, a folding catalyst and a redox-regulated chaperone. *Free Radical Biology and Medicine* 2015;83:305-313.	1	王志珍	5.74
54	Yin RY, Fang L, Li YJ, Xue P, Li YZ, Guan YF, Chang YS, Chen C, Wang NP. Pro-inflammatory Macrophages suppress PPAR gamma activity in Adipocytes via S-nitrosylation. *Free Radical Biology and Medicine* 2015;89:895-905.	2	陈畅	5.74
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56	Dong Y, Liang C, Zhang B, Ma JJ, He XX, Chen SY, Zhang XN, Chen W. Bortezomib enhances the therapeutic efficacy of dasatinib by promoting c-KIT internalization-induced apoptosis in gastrointestinal stromal tumor cells. *Cancer Letters* 2015;361(1):137-146.	3	Chen W	5.62
57	Wang XY, Hou YJ, Deng K, Zhang Y, Wang DC, Ding JJ. Structural Insights into the Molecular Recognition between	1	丁璟珒，王大成	5.62

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58	Tang YL, Wang HW, Wei B, Guo YT, Gu L, Yang ZG, Zhang Q, Wu YY, Yuan Q, Zhao G, Ji GJ. CUG-BP1 regulates RyR1 ASI alternative splicing in skeletal muscle atrophy. *Scientific Reports* 2015;5.	1	姬广聚	5.58
59	Qi C, Li DF, Feng L, Hou YJ, Sun H, Wang DC, Liu W. Biochemical and structural characterization of a novel ubiquitin-conjugating enzyme E2 from Agrocybe aegeria reveals Ube2w family-specific properties. *Scientific Reports* 2015;(3)5:16056-16062	1	王大成	5.58
60	Liu B, Xue YH, Zhao W, Chen Y, Fan CY, Gu LS, Zhang YD, Zhang X, Sun L, Huang XJ, Ding W, Sun F, Ji W, Xu T. Three-dimensional super-resolution protein localization correlated with vitrified cellular context. *Scientific Reports* 2015;5.13017-13028.	1	徐涛	5.58
61	Wan M, Zhang WH, Tian YL, Xu CJ, Xu T, Liu JF, Zhang RY. Unraveling a molecular determinant for clathrinin-dependent internalization of the M2 muscarinic acetylcholine receptor. *Scientific Reports* 2015;5.11408.	2	刘剑锋，张蓉颖	5.58
62	Ma HH, Ma YM, Liu XH, Dyer DH, Xu PY, Liu KY, Lan Q, Hong HZ, Peng JX, Peng R. NMR structure and function of Helicoverpa armigera sterol carrier protein-2, an important insecticidal target from the cotton bollworm. *Scientific Reports* 2015;5.	2	Peng JX	5.58
63	Wang WY, Wei SN, Li LH, Su XY, Du CK, Li FJ, Geng B, Liu PS, Xu GH. Proteomic analysis of murine testes lipid droplets. *Scientific Reports* 2015;5.	2	刘平生	5.58
64	Jiang PF, Zhou N, Chen XY, Zhao X, Li DY, Wang F, Bi LJ, Zhang DL. Integrative analysis of differentially expressed microRNAs of pulmonary alveolar macrophages from piglets during H1N1 swine influenza A virus infection. *Scientific Reports* 2015;5.	3	毕利军	5.58
65	Zhao LN, Li J, Ma YL, Wang JT, Pan W, Gao K, Zhang ZR, Lu TL, Ruan YY, Yue WH, Zhao ST, Wang LF, Zhang D. Ezh2 is involved in radial neuronal migration through regulating Reelin expression in cerebral cortex. *Scientific Reports* 2015;5.	4	Wang LF	5.58
66	Zhu XJ, Zhu Y, Ye S, Wang Q, Xu W, Su S, Sun ZW, Yu F, Liu Q, Wang C, Zhang TH, Zhang ZQ, Zhang XY, Xu JQ, Du LY, Liu KL, Lu L, Zhang RG, Jiang SB. Improved Pharmacological and Structural Properties of HIV Fusion Inhibitor AP3 over Enfuvirtide: Highlighting Advantages of Artificial Peptide Strategy. *Scientific Reports* 2015;5.	4	张荣光	5.58
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68	Zhai YY, Zhao XS, Cui ZJ, Wang M, Wang YX, Li LF, Sun Q, Yang X, Zeng DB, Liu Y, Sun YN, Lou ZY, Shang LQ, Yin Z. Cyanohydrin as an Anchoring Group for Potent and Selective Inhibitors of Enterovirus 71 3C Protease. *Journal of Medicinal Chemistry* 2015;58(23):9414-9420.	9	Shang LQ	5.45
69	Zhang, X.L., Li, D.F., Fleming, J., Wang, L.W., Zhou, Y., Wang, D.C., Zhang, XE*, and Bi, LJ* (2015). Core component EccB1 of the Mycobacterium tuberculosis type VII secretion system is a periplasmic ATPase. FASEB journal: official publication of the Federation of American Societies for Experimental Biology 29, 4804-4814.	2	张先恩，毕利军	5.04
70	Yu JH, Zhang SY, Cui LJ, Wang WY, Na HM, Zhu XT, Li LH, Xu GH, Yang FQ, Christian M, Liu PS. Lipid droplet remodeling and interaction with mitochondria in mouse brown adipose tissue during cold treatment. *Biochimica Et Biophysica Acta-Molecular Cell Research* 2015;1853(5):918-928.	1	刘平生	5.02
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74	Kong LY, Shaw N, Yan LM, Lou ZY, Rao ZH. Structural View and Substrate Specificity of Papain-like Protease from Avian Infectious Bronchitis Virus. *Journal of Biological Chemistry* 2015;290(11):7160-7168.	2	饶子和	4.57
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76	Yang QZ, Jie Q, Shaw N, Li L, Rao ZH, Yin Z, Lou ZY. Studies on Inhibition of Proliferation of Enterovirus-71 by Compound	1	饶子和	4.51

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