

Curriculum Vitae of Dr. Deyin Guo

Name: Deyin **Guo**
Gender: Male
Date of Birth: April 26, 1965
Place of Birth: Xiayi, Henan Province, PR China
Address: School of Medicine
Sun Yat-sen University, North Campus (Medical Campus),
Zhongshan Erlu 74, Yuexiu District, Guangzhou 510080, P.R. China
Phone: Work: +86-20-38882405; Mobile Phone: +86-13296609699
E-mail: E-mail: guodeyin@mail.sysu.edu.cn or dguo@whu.edu.cn

Education:

Feb. 1992- Aug 1995 PhD in natural sciences (Dr. rer. nat) (major in Microbiology)
Braunschweig University of Technology, Germany.
Sept 1985- Jul 1988 M.S. in Microbiology
Graduate School, Chinese Academy of Agricultural Sciences and the
Institute of Microbiology, Chinese Academy of Sciences, Beijing
Sept 1981 -July 1985 Bachelor Degree, Nanjing Agricultural University, Nanjing, China

Professional Experience:

Aug. 2016 – now Professor and dean of the School of Medicine, Sun Yat-sen University,
China;
Jan. 2011 – Oct. 2016 Professor and dean of the School of Basic Medical Sciences, Wuhan
University, China;
Jun 2002 – Oct 2016 Acting director / director of Modern Virology Research Center, Wuhan
University, China.
Apr 2005 – Oct 2016 Founding member and associate director of the National Key Laboratory
of Virology, Wuhan, China.
Jun 2002 – Jun 2011 Professor and Vice-Dean of the College of Life Sciences, Wuhan
University, China.
Jan. 1996 – Sept 2002 Postdoc fellow (1996-2001) and docent (2001) at the Institute of
Biotechnology, University of Helsinki, Finland. Working with Prof. Mart
Saarna.
Mar. 1992 – Oct 1995 Research scientist and PhD student (in Microbiology with Prof. HJ Aust)
at the Department of Microbiology, Braunschweig University of
Technology, Germany and the Institute of Biochemistry and Plant
Virology (with Prof. R Casper & Dr E Maiss), Federal Biological
Research Center for Agriculture and Forestry in Braunschweig, Germany.
Aug. 1988-Feb. 1992. Research assistant at the Plant Virus Laboratory, Chinese Academy of
Agricultural Sciences.
Aug. 1986-July. 1988. Research assistant in the Institute of Microbiology, Chinese Academy of
Sciences.

Honors & Awards:

2018 Awardee of China National Ten-Talents Program
2018 Awardee of the Leading Medical Talent Program of Guangdong Province (first group)
2017 Nomination as a leading talented scholar in the Zhujiang Talents Program of Guangdong Province
2013 Nomination as a leading medical scholar (first-tier) in Hubei Province
2010 Merieux Prize for Distinguished Virologist by Virology Division of Chinese Society for Microbiology.
2009 Awardee of the grant for distinguished young scholars by China National Natural Science Foundation.
2009 Nomination as a leading scientist in the China National Basic Research Program.
2006 Second prize of Scientific Achievement by Hubei Provincial Government.
2005 Nomination as Top Ten Distinguished Teachers in Wuhan University
1992-1994 holder of the Scholarship of Hans-Seidel Stiftung, Germany

Current Memberships in Professional Societies:

President of Virology Division of Chinese Society for Microbiology (equivalent to ASV/GfV)
Councilor of Chinese Society for Microbiology
Councilor of Medical Virology Branch of Chinese Society of Medicine
Councilor of Immune Cell Branch of Chinese Society for Cell Biology
Executive member of China Investigation & Approval Committee of High-Level Biosafety Pathogens
Executive member of China Laboratory Biosafety Committee of CNAS (China National Accreditation Service for Conformity Assessment)
Councilor of Hubei Society of Microbiology
Member of American Society of Microbiology

Editorial Board Membership:

Virology (since 2016)
Medical Microbiology and Immunology (since 2017)
Virologica Sinica (since 2015)

Review for Academic Journals:

Nature Microbiology, Nature Immunology, Journal of Virology, Journal of General Virology, Virus Research, Trends in Microbiology, Trends in Biochemical Sciences, FEBS Letters, Cellular & Molecular Immunology, etc.

Grant Review Committee Membership:

Section of Pathogens & Infectious Diseases, Medical Science Division, China National Natural Science Foundation (NSFC)
Section of Microbiology, Biology Division, NSFC.
China Basic Research Program, Ministry of Science & Technology (MOST)
China Major R & D Program, MOST.

Recent Publications

1. Jingwen Wang, Jianwen Chen, Mingcong Wei, Yang Liu, Xianhuang Zeng, Mingcong Wei, Shaoshuai Wu, Xianhuang Zeng, Qiushuang Xiong, Feifei Song, Xu Yuan, Yu Xiao, Yun Cao,

- Changyong Li, Lang Chen, Mingxiong Guo, Yun-Bo Shi, Guihong Sun* & **Deyin Guo*** (2018) Hepatitis B virus induces autophagy to promote its replication by the axis of miR-192-3p-XIAP via NF- κ B signaling. **Hepatology**. 2018 Sep 4. doi: 10.1002/hep.30248.
2. Jiang M, Österlund P, Westenius V, Guo D, Poranen MM, Bamford DH, Julkunen I. Efficient inhibition of avian and seasonal influenza A viruses by a virus-specific Dicer-substrate siRNA swarm in human monocyte-derived macrophages and dendritic cells. **Journal of Virology** 2018 Nov 21. pii: JVI.01916-18. doi: 10.1128/JVI.01916-18. [Epub ahead of print]
 3. Yuan Wang, Lei Cui, Guifang Yang, Jianbo Zhan, Liang Guo, Yu Chen, Chengpeng Fan, Dan Liu, **Deyin Guo** (2018) Hepatitis B e antigen inhibits NF- κ B activity by interrupting K63-linked ubiquitination of NEMO. **Journal of Virology** 2018 Nov 7. pii: JVI.00667-18. doi: 10.1128/JVI.00667-18.
 4. Tania Quirin, Yu Chen, Maija K. Pietilä, **Deyin Guo** and Tero Ahola (2018) The RNA capping enzyme domain in protein A is essential for Flock House virus replication. *Viruses*. 2018 Sep 9;10(9). pii: E483. doi: 10.3390/v10090483.
 5. Qiankun Wang, Shuliang Chen, Qiaoqiao Xiao, Zhepeng Liu, Shuai Liu, Panpan Hou, Li Zhou, Wei Hou, Wenzhe Ho, Chunmei Li, Li Wu and **Deyin Guo**. (2017). **Retrovirology**. 2017 Nov 15;14(1):51. doi: 10.1186/s12977-017-0375-0.
 6. Xiahou Z, Wang X, Shen J, Zhu X, Xu F, Hu R, **Guo D**, Li H, Tian Y, Liu Y, Liang H. NMI and IFP35 serve as proinflammatory DAMPs during cellular infection and injury. **Nat Commun**. 2017 Oct 16;8(1):950. doi: 10.1038/s41467-017-00930-9.
 7. Yuanyuan Cao, Hongyun Wang, Liu Yang, Zhen Zhang, Chenlin Li, Xu Yuan, Lang Chen, Yu Chen, Chun-Mei Li and **Deyin Guo** (2017) PTEN-L promotes type I interferon responses and antiviral immunity. **Cellular & Molecular Immunology** 15(1):48-57.
 8. Yanxi Ji, Liu Cao, Lanyi Zeng, Zhen Zhang, Qiaoqiao Xiao, Penglin Guan, Shiyong Chen, Yu Chen, Min Wang, **Deyin Guo**. (2017) The N-terminal ubiquitin-associated domain of Cezanne is crucial for its function to suppress NF- κ B pathway. **Journal of Cellular Biochemistry** 2017 Aug 17
 9. Hou P, Wu C, Wang Y, Qi R, Bhavanasi D, Zuo Z, Dos Santos C, Chen S, Chen Y, Zheng H, Wang H, Perl AE, **Guo D**, Huang J. (2017) A genome-wide CRISPR screen identifies genes critical for resistance to FLT3 inhibitor AC220. **Cancer Res**. 2017 Aug 15;77(16):4402-4413.
 10. Yang R, Zhang H, Xiong Y, Gui X, Zhang Y, Deng L, Gao S, Luo M, Hou W, **Guo D**. (2017) Molecular diagnosis of central nervous system opportunistic infections and mortality in HIV-infected adults in Central China. **AIDS Res Ther**. 2017 May 2;14:24.
 11. Lang Chen & Deyin Guo (2017). The functions of tumor suppressor PTEN in innate and adaptive immunity. *Cellular & Molecular Immunology* (in press)
 12. Deyin Guo (2017). A novel strategy to generate virus vaccines with expanded genetic codes. *Sci China Life Sci*. 2017 Mar 13. doi: 10.1007
 13. Jianbo Zhan, Qin Wang, Jing Cheng, Bing Hu, Jing Li, Faxian Zhan, Yi Song, **Deyin Guo**. (2017) Current status of severe fever with thrombocytopenia syndrome in China. **Virol Sin**. 32, 51-62.
 14. Mengmeng Qu, Xu Yuan, Dan Liu, Yuhong Ma, Jun Zhu, Jun Cui, Changyong Li & **Deyin Guo** (2017) Bone marrow-derived mesenchymal stem cells attenuate immune-mediated liver injury and compromise virus control during acute HBV infection in mice. **Stem Cells and Development** (accepted)
 15. Shiyong Chen, Xiaodan Yang, Weijia Cheng, Yuhong Ma, Yafang Shang, Liu Cao, Shuliang Chen, Yu Chen, Min Wang, **Deyin Guo*** (2017) Immune regulator ABIN1 suppresses HIV-1

- transcription by negatively regulating the ubiquitination of Tat. **Retrovirology** 2017 Feb 13;14(1):12.
16. Li Z, Mohd Khan M, Kuja-Panula J, Wang H, Chen Y, **Guo D**, Jane Chen Z, Lahesmaa R, Rauvala H, Tian L. (2017) AMIGO2 modulates T cell functions and its deficiency in mice ameliorates experimental autoimmune encephalomyelitis. **Brain Behav Immun.** 2017 Jan 11
 17. Jianbo Zhan, Jing Cheng, Bing Hu, Jing Li, Ruangang Pan, Zhaohui Yang, Wenjing Zou, Faxian Zhan, **Deyin Guo***. (2017) Pathogens and epidemiologic features of severe fever with thrombocytopenia syndrome in Hubei Province, China. **Virus Res.** 2017 Jan 12.
 18. Jing He, Ruidong Hao, Dan Liu, Xing Liu, Shaoshuai Wu, Shuting Guo, Yuan Wang, Po Tien, **Deyin Guo**. (2016) Inhibition of hepatitis B virus replication by activation of the cGAS-STING pathway. **J Gen Virol.** 2016 Dec;97(12):3368-3378.
 19. Ma TC, Zhou RH, Wang X, Li JL, Sang M, Zhou L, Zhuang K, Hou W, **Guo DY**, Ho WZ. (2016) Soybean-derived Bowman-Birk Inhibitor (BBI) Inhibits HIV Replication in Macrophages. **Sci Rep.** 2016 Oct 13;6:34752.
 20. Xiang N, He M, Ishaq M, Gao Y, Song F, Guo L, Ma L, Sun G, Liu D, **Guo D**, Chen Y. (2016) The DEAD-box RNA helicase DDX3 interacts with NF- κ B subunit p65 and suppresses p65-mediated transcription. **PLoS One.** 2016 Oct 13;11(10):e0164471.
 21. Liu J, Xiao Q, Zhou R, Wang Y, Xian Q, Ma T, Zhuang K, Zhou L, **Guo D**, Wang X, Ho WZ, Li J. (2016) Comparative Analysis of Immune Activation Markers of CD8+ T Cells in Lymph Nodes of Different Origins in SIV-Infected Chinese Rhesus Macaques. **Front Immunol.** 2016 Sep 21;7:371.
 22. Liu Z, Song F, Ma ZL, Xiong Q, Wang J, **Guo D**, Sun G.(2016) Bivalent Copper Ions Promote Fibrillar Aggregation of KCTD1 and Induce Cytotoxicity. **Sci Rep.** 2016 Sep 6;6:32658.
 23. Cong Zeng, Andong Wu, Yi Wang, Shan Xu, Yingke Tang, Xu Jin, Shilei Wang, Lei Qin, Ying Sun, Chengpeng Fan, Eric J. Snijder, Benjamin W. Neuman, Yu Chen, Tero Ahola and Deyin Guo (2016) Identification and Characterization of a Ribose 2'-O-Methyltransferase Encoded by the Ronivirus Branch of *Nidovirales*. **Journal of Virology** 90(15):6675-85.
 24. Dan Liu, Lei Cui, Yuan Wang, Guifang Yang, Ruidong Hao, Jing He, Chengpeng Fan, Mengmeng Qu, Zhepeng Liu, Min Wang, Lang Chen, Hui Li and Deyin Guo (2016) HBV e antigen and its precursors promote the progress of hepatocellular carcinoma by interacting with NUMB and decreasing p53 stability and activity. **Hepatology** 64, 390-404.
 25. Han X, Sun N, Wu H, Guo D, Tien P, Dong C, Wu S, Zhou HB. (2016) Identification and Structure-Activity Relationships of Diarylhydrazides as Novel Potent and Selective Human Enterovirus Inhibitors. **J Med Chem.** 2016 Feb 25. [Epub ahead of print]
 26. Kong W, Wang Y, Zhu H, Lin X, Yu B, Hu Q, Yang X, Guo D, Peng J, Zhou D. (2016) Circulation of human metapneumovirus among children with influenza-like illness in Wuhan, China. **J Med Virol.** 88(5):774-81.
 27. Yu Chen and **Deyin Guo** (2016) Molecular mechanisms of coronavirus RNA capping and methylation. **Virol Sin.** 31 (1). 3-11.
 28. Jun Chen, Xiaoyun Wu, Shiyong Chen, Shuliang Chen, Nian Xiang, Yu Chen, **Deyin Guo** (2016) Ubiquitin ligase Fbw7 restricts the replication of hepatitis C virus by targeting NS5B for ubiquitination and degradation. **Biochem Biophys Res Commun.** 470, 697-703.
 29. Shun Li, Mingzhu Zhu, Ruangang Pan, Ting Fang, Yuan-Yuan Cao, Shuliang Chen, Xiaolu Zhao, Cao-Qi Lei, Lin Guo, Yu Chen, Chunmei Li, Eija Jokitalo, Yuxin Yin, Hong-Bing Shu, **Deyin Guo*** (2016) The tumor suppressor PTEN has a critical role in antiviral innate immunity. **Nature Immunology** 17, 241-249. (With expert comment in the News & Views section of the same issue)

30. Panpan Hou, Shuliang Chen, Shilei Wang, Xiao Yu, Yu Chen, Meng Jiang, Ke Zhuang, Wenzhe Ho, Wei Hou, Jian Huang and **Deyin Guo*** (2015). Genome editing of CXCR4 by CRISPR/cas9 confers cells resistance to HIV-1 infection. **Scientific Reports** 2015 Oct 20;5:15577.
31. Chen T, Hu Y, Lin X, Huang X, Liu B, Leung P, Chan SO, Guo D, Jin G.(2015) Dopamine signaling regulates the projection patterns in the mouse chiasm. *Brain Res.* 1625:324-36.
32. Mengmeng Qu, Jun Cui, Jun Zhu, Yuhong Ma, Xu Yuan, Jinming Shi, **Deyin Guo**, Changyong Li (2015) Bone marrow-derived mesenchymal stem cells suppress NK cell recruitment and activation in polyI:C-induced liver injury. **Biochem Biophys Res Commun.** 466, 173-9.
33. Lei Cui, Haiying Wang, Yanxi Ji, Jie Yang, Shan Xu, Xingyu Huang, Zidao Wang, Lei Qin, Po Tien, Xi Zhou, **Deyin Guo***, Yu Chen* (2015) The Nucleocapsid protein of coronaviruses acts as a viral suppressor of RNA silencing in mammalian cells. **Journal of Virology** 89, 9029-43.
34. Yi Wang, Ying Sun, Andong Wu, Shan Xu, Ruangang Pan, Cong Zeng, Xu Jin, Xingyi Ge, Zhengli Shi, Tero Ahola, Yu Chen*, **Deyin Guo*** (2015) Coronavirus nsp10/nsp16 methyltransferase can be targeted by nsp10-derived peptide in vitro and in vivo to reduce replication and pathogenesis. **Journal of Virology** 89, 8416-27.
35. Andong Wu, Yi Wang, Cong Zeng, Xingyu Huang, Shan Xu, Ceyang Su, Min Wang, Yu Chen*, **Deyin Guo*** (2015) Prediction and biochemical analysis of putative cleavage sites of the 3C-like protease of Middle East respiratory syndrome coronavirus. **Virus Research** 208, 56-65.
36. Mingzhu Zhu, Ting Fang, Shun Li, Kun Meng, **Deyin Guo*** (2015) Bipartite nuclear localization signal controls nuclear import and DNA binding activity of interferon regulatory factor 3. **Journal of Immunology** 195, 289-97.
37. Xing Liu, Ruidong Hao, Shuliang Chen, **Deyin Guo**, Yu Chen (2015) Inhibition of Hepatitis B Virus by CRISPR/Cas9 System via Targeting the Conserved Regions of Viral Genome. **J Gen Virol.** 96, 2252-61.
38. Xiao Yu, Shuliang Chen, Panpan Hou, Min Wang, Yu Chen, **Deyin Guo*** (2015) VHL negatively regulates SARS coronavirus replication by modulating nsp16 ubiquitination and stability. **Biochem Biophys Res Commun.** 459, 270-6.
39. Ruidong Hao, Jing He, Xing Liu, Guozhen Gao, Dan Liu, Lei Cui, Guojun Yu, Wenhui Yu, Yu Chen, **Deyin Guo*** (2015) Inhibition of hepatitis B virus gene expression and replication by hepatocyte nuclear factor 6. **Journal of Virology** 89, 4345-55.
40. Pan W, Wu Z, Wu S, **Guo D**, Gong X, Po T. (2015) Human immunodeficiency virus coinfection with hepatitis B virus leads to a decrease in extracellular and intracellular hepatitis B antigen. **AIDS Res Hum Retroviruses** 31, 461-9.
41. Ye Liu, Jieqiong Zhou, Ji-An Pan, Prudence Mabiala, **Deyin Guo** (2014) A novel approach to block HIV-1 coreceptor CXCR4 in non-toxic manner. **Molecular Biotechnology** 56, 890-902.
42. Dan Liu, Andong Wu, Lei Cui, Ruidong Hao, Yuan Wang, Jing He, **Deyin Guo** (2014) Hepatitis B virus polymerase suppresses NF- κ B signaling by inhibiting the activity of IKKs via interaction with Hsp90 β . **PLoS One** 9(3): e91658.
43. Ying Sun, Zidao Wang, Jiali Tao, Yi Wang, Andong Wu, Ziwen Yang, Kaimei Wang, Liqiao Shi, Yu Chen*, **Deyin Guo*** (2014) Yeast-based assays for the high-throughput screening of inhibitors of coronavirus RNA cap guanine-N7-methyltransferase. **Antiviral Research** 104, 156-64.
44. Xu Jin, Yu Chen, Ying Sun, Cong Zeng, Yi Wang, Jiali Tao, Andong Wu, Xiao Yu, Zhou Zhang, Jie Tian, **Deyin Guo*** (2013) Characterization of the guanine-N7 methyltransferase activity of coronavirus nsp14 on nucleotide GTP. **Virus Research** 176, 45-52.

45. Shuliang Chen, Xiao Yu, Quan Lei, Lixin Ma, and **Deyin Guo*** (2013) The SUMOylation of zinc-fingers and homeoboxes 1 by Ubc9 regulates its stability and transcriptional repression activity. **Journal of Cellular Biochemistry** 114, 2323-33.
46. Lei Lin, Ying Sun, Baojun Luo, Yi Yang, Xiang He, Wenli Su, Zouan Sun, **Deyin Guo**, Qingyu Zhu, Jingmei Liu, Guohui Chang (2013) Attenuation of mouse hepatitis virus by deletion of the LLRKxGxKG region of nsp1. **PLoS ONE** 8(4):e61166. doi:10.1371/journal.pone.0061166.
47. Guozhen Gao, Xiaoyun Wu, Jieqiong Zhou, Mingfeng He, Johnny J. He* and **Deyin Guo*** (2013) Inhibition of HIV-1 transcription and replication by a newly identified cyclin T1 splice variant. **Journal of Biological Chemistry** 288, 14297-14309.
48. Yu Chen, Jiali Tao, Ying Sun, Andong Wu, Ceyang Su, Guozhen Gao, Hui Cai, Su Qiu, Yingliang Wu, Tero Ahola, **Deyin Guo*** (2013) Structure-function analysis of SARS coronavirus RNA cap guanine-N7 methyltransferase. **Journal of Virology** 87, 6296-305.
49. Ouyang W, An T, **Guo D**, Wu S, Tien P. (2013) The Potent Human Immunodeficiency Virus Type 1 (HIV-1) Entry Inhibitor HR212 Blocks Formation of the Envelope Glycoprotein gp41 Six-Helix Bundle. **AIDS Res Hum Retroviruses** 29, 613-620.
50. Kang X, Chen X, He Y, **Guo D**, Guo L, Zhong J, Shu HB. (2012) DDB1 is a cellular substrate of NS3/4A protease and required for hepatitis C virus replication. **Virology** 435, 385-394.
51. Min Ke, Yu Chen, Andong Wu, Ying Sun, Ceyang Su, Hao Wu, Xu Jin, Jiali Tao, Yi Wang, Xiao Ma, Ji-An Pan, **Deyin Guo*** (2012) Short peptides derived from the interaction domain of SARS coronavirus nonstructural protein nsp10 can suppress the 2'-O-methyltransferase activity of nsp10/nsp16 complex. **Virus Research** 167, 322-328.
52. Chen J, Wang Y, **Guo D**, Shen B. (2012) A systems biology perspective on rational design of peptide vaccine against virus infections. **Curr Top Med Chem** 12, 1310-9.
53. Zhongfan Deng, Huijuan Yan, Jiajie Hu, Shengwei Zhang, Peng Peng, Qingzhen Liu, **Deyin Guo*** (2012) Hepatitis C virus replicon sensitizes host cells to TRAIL induced apoptosis by up-regulating DR4 and DR5 via a MEK1-dependent pathway. **PLoS ONE** 7(5): e37700. doi:10.1371/journal.pone.0037700.
54. An T, Ouyang W, Pan W, **Guo D**, Li J, Li L, Chen G, Yang J, Wu S, Tien P. (2012) Amino acid derivatives of the (-) enantiomer of gossypol are effective fusion inhibitors of human immunodeficiency virus type 1. **Antiviral Res.** 94, 276-87.
55. Yang Z, Wu R, Li RW, Li L, Xiong Z, Zhao H, **Guo D**, Pan Z. (2012) Chimeric classical swine fever (CSF)-Japanese encephalitis (JE) viral replicon as a non-transmissible vaccine candidate against CSF and JE infections. **Virus Res.** 165, 61-70.
56. Chen Y, Cao L, Zhong M, Zhang Y, Han C, Li Q, Yang J, Zhou D, Shi W, He B, Liu F, Yu J, Sun Y, Cao Y, Li Y, Li W, **Guo D**, Cao Z, Yan H. (2012) Anti-HIV-1 Activity of a New Scorpion Venom Peptide Derivative Kn2-7. **PLoS One** 7, e34947.
57. Peng J, Kong W, **Guo D**, Liu M, Wang Y, Zhu H, Pang B, Miao X, Yu B, Luo T, Hu Q, Zhou D. (2012) The epidemiology and etiology of influenza-like illness in Chinese children from 2008 to 2010. **J Med Virol.** 84, 672-8.
58. Yu Chen, Ceyang Su, Min Ke, Xu Jin, Lirong Xu, Zhou Zhang, Andong Wu, Ying Sun, Zhouning Yang, Po Tien, Tero Ahola, Yi Liang, Xinqi Liu, **Deyin Guo*** (2011) Biochemical and structural insights into the mechanisms of SARS coronavirus RNA ribose 2'-O-methylation by nsp16/nsp10 protein complex. **PLoS Pathogens** 7(10): e1002294. doi:10.1371/journal.ppat.1002294.
59. Liang Y, Zhang Z, Wei H, Hu Q, Deng J, **Guo D**, Cui Z, Zhang XE. (2011) Aptamer beacons for visualization of endogenous protein HIV-1 reverse transcriptase in living cells. **Biosens Bioelectron.** 28, 270-6.

60. Miao Jiang, Pamela Österlund, Peter Sarin, Minna Poranen, Dennis Bamford, **Deyin Guo*** and Ilkka Julkunen* (2011) Innate immune responses in human monocyte-derived dendritic cells are highly dependent on the size and the 5'-phosphorylation of RNA molecules. **Journal of Immunology** 187, 1713-21.
61. Xiaolu Lu, Ji'an Pan, Jiali Tao, **Deyin Guo*** (2010) SARS-CoV nucleocapsid protein antagonizes IFN- β response by targeting initial step of IFN- β induction pathway, and its C-terminal region is critical for the antagonism. **Virus Genes** 42, 37-45.
62. Tao Hu, Ping Chen, Qiong Fu, Junwei Li, Musarat Ishaq, Li Ma, **Deyin Guo*** (2010) Comparative studies of various artificial microRNA expression vectors for RNAi in mammalian cells. **Molecular Biotechnology** 46, 34-40.
63. Ying Wu, Changzhen Liu, Meiyi Sun, Hexiao Shen, **Deyin Guo*** and Bin Gao* (2010) A novel specific CTL epitope presentation system for anti-tumor immunity. **International Journal of Cancer** 126, 2373-86.
64. Xiaoyun Wu, Musarat Ishaq, Guozheng Gao, Tao Hu, **Deyin Guo*** (2010) M2 pyruvate kinase enhances HIV-1 transcription from its long terminal repeat. **Frontiers in Biology** 5, 59-66.
65. Yu Chen, Hui Cai, Ji'an Pan, Nian Xiang, Po Tien, Tero Ahola, **Deyin Guo*** (2009) Functional screen reveals SARS coronavirus nonstructural protein nsp14 as a novel cap N7 methyltransferase. **Proceedings of the National Academy of Sciences of the United States of America** 106, 3484-9.