Curriculum Vitae

Rong-Xiang Fang Male Birth Date and Place: January 19, 1946, Shanghai
Institute of Microbiology (IM), Chinese Academy of Sciences (CAS)
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EDUCATION

Department of Chemistry, Fudan University, 1967

Professional Experiences

1968	Research Assistant	Institute of Microbiology, Chinese Academy of Sciences
1978	Research Associate	Institute of Microbiology, Chinese Academy of Sciences
1986	Associate Research Fellow	Institute of Microbiology, Chinese Academy of Sciences
1990	Research Fellow	Institute of Microbiology, Chinese Academy of Sciences
1992-1999	Deputy Director	Institute of Microbiology, Chinese Academy of Sciences
2003	Academician	Chinese Academy of Sciences
2000-2004	Director	Institute of Microbiology, Chinese Academy of Sciences
1991-2001	Deputy Director	CAS Key Laboratory of Plant Biotechnology
2001-2003	Director	CAS Key Laboratory of Plant Biotechnology
2004-2011	Director	State Key Laboratory of Plant Genomics
2006-2010	Director	College of Agriculture and Biotechnology, Zhejiang University
2006-2011	Visiting Professor	Centre for Plant Sciences, University of Leeds
2007	Fellow	the Academy of Sciences for the Developing World

RECENT RESEARCH FIELDS

1. Plant virology
2. Disease-resistant transgenic plants and plant bioreactors
3. Optimization of transgene expression in plants

International Experiences

1979-1981 Visiting Scholar in Laboratory of Molecular Biology,

The State University of Ghent, Belgium.

1985-1988 Visiting Scientist in Laboratory of Plant Molecular Biology,
The Rockefeller University, USA.

1989-1995 Rockefeller Foundation Biotechnology Career Fellowship.

MAJOR PUBLICATIONS

1. W. Min Jou, M. Verhoeyen, R. Devos, E. Saman, R-X. Fang, D. Huylebroeck, W. Fiers, G.Threlfall, C. Barber, N. Carey, S. Emtage.
   Complete structure of the hemagglutinin gene from the human influenza A/Victoria/3/75(H3N2) strain as determined from loned cDNA.
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2. M. Verhoeyen, R-X. Fang, W. Min Jou, R. Devos, D. Huylebroeck, E. Saman, W. Fiers.
   Antigenic drift between the hemagglutinin of the Hong Kong influenza strains A/Aichi/2/68 and A/Victoria/3/75.
   ***Nature* 286: 771-776, 1980.**

3. R-X. Fang, W. Min Jou, D. Huylebroeck, R.Devos, W. Fiers.
   Complete structure of A/duck/Ukraine/63 influenza hemagglutinin gene: animal virus as progenitor of human H3 Hong Kong 1968 influenza hemagglutinin.
   ***Cell* 25: 315-323, 1981.**

4. R.X. Fang, X.J. Wu, M. Bu, Y.C. Tian, F.X. Cai, K.Q. Mang
   Complete nucleotide sequence of cauliflower mosaic virus (Xinjiang isolate) genomic DNA
   ***Chinese J. Virology* 3: 247-256, 1985. (in Chinese)**

5. M. Cuozzo, K.M. O'Connell, W. Kaniewski, R-X. Fang, N-H. Chua, N.E. Tumer*.
   Viral protection in transgenic tobacco plants expressing the cucumber mosaic virus coat protein or its antisense RNA.
   ***Biotechnology* 6: 549-557, 1988.**

6. C. Hemenway, R-X. Fang, W. Kaniewski, N-H. Chua, N. Tumer.
   Analysis of the mechanism of protection in transgenic plants expressing the potato virus X coat protein or its antisense RNA.
   ***The EMBO J*. 7: 1273-1280, 1988.**

7. R-X. Fang, F. Nagy, S.Sivasubramaniam, N-H. Chua*.
   Multiple cis-regulatory elements for maximal expression of the cauliflower mosaic virus 35S promoter in transgenic plants.
   ***The Plant Cell* 1: 141-150, 1989.**

8. E. Lam, P. Benfey, P. Gilmartin, R-X. Fang, N-H. Chua.
   Site- specific mutations alter in vitro factor binding and change promoter expression pattern in transgenic plants.

Proc. Natl. Acad. Sci. USA **86: 7890-7894, 1989.**

9. R.X. Fang, Y.C. Tian, G.L. Wang, X.F. Qin, M.Z. Yang, T.Y. Li, B.Y. Xu, K.Q. Mang, Z.C. Zhang, Q. Wu, R.H. Zhou, F.L. Wang, G. Zhao and X.D. Han.
   Transgenic tobacco plants resistant to infection of both tobacco mosaic virus and cucumber mosaic virus.
   Chinese Science Bulletin **36: 524-525, 1990.**

10. Ling-Jie Kong, Rong-Xiang Fang*, Zheng-Hua Chen and Ke-Qiang Mang.
    Molecular cloning and nucleotide sequence of coat protein gene of turnip mosaic virus.
    Nucleic Acids Research **18: 5555, 1990.**

11. Xue-Rong Zhou, Rong-Xiang Fang*, Cheng-Qiu Wang and Ke-Qiang Mang.
    cDNA sequence of the 3'-coding region of PVY genome (the Chinese isolate).
    Nucleic Acids Research **18: 5554, 1990.**

12. Rong-Xiang Fang, Zhen Pang, Dong-Ming Gao, Ke-Qiang Mang and Nam-Hai Chua*.
    cDNA sequence of a virus-inducible, glycine-rich protein gene from rice.
    Plant Molecular Biology **17: 1255-1257, 1991.**

13. R.X. Fang, Y.C. Tian, G.L. Wang, B.Y. Xu, T.Y. Li, K.Q. Mang, Z.C. Zhang, Q. Wu, R.H. Ru, F.L. Wang, W.H. Shi, X.D. Han
    Homozygous transgenic tobacco plants resistant to infection of both TMV and CMV and their field performance
    Science in China (Series B) **23: 481-488, 1993**. **(in Chinese)**

14. Rong-Xiang Fang*, Qun Wang, Bing-Yin Xu, Zhen Pang, Hai-Tao Zhu, Ke-Qiang Mang, Dong-Ming Gao and Nam-Hai Chua.
    Structure of the nucleocapsid protein gene of rice yellow stunt rhabdovirus.
    Virology **204: 367-375, 1994.**

15. H.H. Yang, R.X. Fang, S.R. Jia
    cDNA sequence encoding barley leaf thionin
    Chinese Science Bulletin **39: 1610-1613, 1994. (in Chinese)**

16. Q. Wang and R.X. Fang*.
    Structure and expression of a rice hsp70 gene.
    Science in China (Series C) 39: 291-299, 1996

17. N.H. Cheng, R.X. Fang*, Z.Q. Pu and Z.D. Fang.
    Complete nucleotide sequence of a new satellite RNA associated with cucumber mosaic virus inducing tomato necrosis.
    Science in China (Series C) **40: 443-448, 1997.**

18. X.R. Zhou, R.W. Peng, R.X. Fang, Z.H. Chen, K.Q. Mang
    Obtaining male sterile oilseed rape by specific expression of RNase gene
    Acta Genetica Sinica **24: 531-536, 1997. (in Chinese)**

19. R.W. Peng, X.R. Zhou, J.L. Wang, R.X. Fang, Z.H. Chen, K.Q. Mang

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Acta Genetica Sinica **25: 74-79, 1998. (in Chinese)**

20. Zongli Luo, Xiaoying Chen, Dongming Gao, Rongxiang Fang*.
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21. Z.L.Luo and R.X.Fang*.
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Arch.Virol. **143: 2453-2459, 1998.**

22. Qun Wang, Xiaoying Chen, Zongli Luo and Rongxiang Fang *.
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Science in China (C) **42: 50-56, 1999.**

23. Xinguo Wang, Guohua Zhang, Chuanxuan Liu, Yanhong Zhang, Chengzu Xiao, Rongxiang Fang*.
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Biotechnology and Bioengineering **72: 490-494, 2001.**

24. Wangli Lei, Rongxiang Fang*, Guohua Zhang, Xiaoying Chen, Xiaoqin Zhang.
ecombination with coat protein transgene in a complementation system based on *Cucumber mosaic virus* (CMV).
Science in China (Series C) **44: 263-273, 2001.**

25. T.X. Guo, R.X. Fang*, G.H. Li, Y. Qian.
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Chinese J. of Biotech. **17: 621-625, 2001. (in Chinese)**

26. W.Q. Cai, R.X. Fang*, H.S. Shang, X. Wang, F.L. Zhang, Y.R. Li, J.C. Zhang, X.Y. Cheng, G.L. Wang, K.Q. Mang.
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27. Z.Z. Liu, J.L. Wang, X. Huang, W.H. Xu, Z.M. Liu, R.X. Fang*.
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28. Z.Z. Liu, J.L. Wang, Q. Wang, X. Huang, W.H. Xu, L.H. Zhu, P. He and R.X. Fang*.
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Science in China **46: 584-594, 2003.**

29. K.X. Mi, J. Li, Z.S. Zhang, R.X. Fang*.
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***Genome Research* 15: 757-767, 2005.**

38. Qihong Sun, Jun Hu, Guixiu Huang, Chao Ge, Rongxiang Fang and Chaozu He*.
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Xanthomonas oryzae pv. *oryzae*.

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39. Hongge Jia, Yongqin Pang, Xiaoying Chen*, Rongxiang Fang.
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40. Ke Zhang, Jiahe Wu, Xiaoying Chen, Kuide Yin, Rongxiang Fang, Yingchuan Tian*.
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Journal of Agricultural Biotechnology **14: 555-558, 2006. (in Chinese)**

41. Shang Gao, Lei Su, Hongge Jia, Hongnian Guo, Yingchuan Tian, Rongxiang Fang, Xiaoying Chen*
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Chinese Journal of Biotechnology **23: 157-160, 2007. (in Chinese)**

42. Yanmei Li, Lihua Wang, Shunlin Li, Xiaoying Chen, Yuemao Shen, Zhongkai Zhang, Hongping He, Wenbo Xu, Yuelong Shu, Guodong Liang, Rongxiang Fang*, and Xiaojiang Hao*.
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44. Jing Qu, Jian Ye and Rongxiang Fang*.
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Journal of Virology **81: 6690-6699, 2007.**

45. Lei Su, Shang Gao, Yanwei Huang, Chaoqun Ji, Dickson Wang, Yun Ma, Rongxiang Fang and Xiaoying Chen*.
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46. Jian Ye, Lixin Liu, Yuan Xue, Jing Qu, Guangxia Gao* and Rongxiang Fang*.
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47. Yanmei Li, Yantao Jia, Zhongkai Zhang, Xiaoying Chen, Hongping He, Rongxiang Fang* and Xiaojiang Hao*.
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48. Quansheng Du, Chengguo Duan, Zhong-Hui Zhang, Yuanyuan Fang, Rongxiang Fang, Qi Xie, and Huishan Guo*.
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49. Yun Xu, Jian Ye#, Huajie Liu, Enjun Cheng, Yang Yang, Wenxing Wang, Manchun Zhao, Dejian Zhou, Dongsheng Liu* and Rongxiang Fang.
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50. Kun Yang, Yaping Fu, Yuman Zhang, Yongsheng Yan, Zhiqiang Zhao, Rongxiang Fang, Zongxiu Sun* and Xiaoying Chen*
    Analysis of rice *OsPLD3* and *OsPLD4* genes and promoters.
    Chinese Journal of Biotechnology **24: 368-375, 2008. (in Chinese)**

51. ChengGuo Duan, ChunHan Wang, RongXiang Fang, HuiShan Guo*.
    Artificial MicroRNAs Highly Accessible to Targets Confer Efficient Virus resistance in Plants.
    Journal of Virology **82: 11084-11095, 2008.**

52. Yanmei Li, Zhongkai Zhang, Yantao Jia, Yuemao Shen, Hongping He, Rongxiang Fang, Xiaoying Chen* and Xiaojiang Hao*.
    3-acetonyl-3-hydroxyoxindole: a new inducer of systemic acquired resistance in plants.
    Plant Biotechnology Journal **6: 301-308, 2008.**

53. Zhiqiang Zhao, Yaping Fu, Kun Yang, Yuman Zhang, Yongsheng Yan, Rongxiang Fang, Zongxiu Sun* and Xiaoying Chen*.
    Cloning and function analysis of the rice small GTP-binding protein gene *OsPra2*
    Chinese Journal of Biotechnology **24: 2027-2033, 2008. (in Chinese)**

54. JianYe, Jing Qu, Jianfeng Zhang, Yunfeng Geng and Rongxiang Fang*.
    A critical domain of the *Cucumber mosaic virus* 2b protein for RNA silencing suppressor activity.
    FEBS Letters **583: 101-106, 2009.**

55. Junli Zhang, Kun Yang, Yuman Zhang, Yongsheng Yan, Zhiqiang Zhao, Rongxiang Fang, Zongxiong Sun, Yaping Fu* and Xiaoying Chen*.
    Identification and characterization of rice OsCIPK10 gene
    Chinese Journal of Biotechnology **25: 1394-1401, 2009. (in Chinese)**

56. Fujie Zhang, Hongyan Guo, Huajun Zheng, Tong Zhou, Yijun Zhou, Shengyue Wang, Rongxiang Fang,

Wei Qian*, Xiaoying Chen*

Massively parallel pyrosequencing-based transcriptome analyses of small brown planthopper (Laodelphax striatellus), a vector insect transmitting rice stripe virus (RSV)

BMC Genomics **11:303, 2010**

57. Xiaobao Ying, Li Dong, Hui Zhu, Chengguo Duan, Quansheng Du, Dianqiu Lv, Yuanyuan Fang, Juan Antonio Garcia, Rongxiang Fang and Huishan Guo*

    RNA-Dependent RNA Polymerase 1 from *Nicotiana tabacum* Suppresses RNA Silencing and Enhances Viral Infection in *Nicotiana benthamiana*

    The Plant Cell **22: 1358-1372, 2010.**

58. Li Wang, Lili Zhang, Yunfeng Geng, Wei Xi, Rongxiang Fang*, Yantao Jia*

    XerR, a negative regulator of XccR in *Xanthomonas campestris* pv. *campestris*, relieves its repressor function *in planta*

    Cell Research **21:1131-1142, 2011.**

59. Yongsheng Yan, Yuman Zhang, Kun Yang, Zongxiu Sun, Yaping Fu, Xiaoying Chen* and Rongxiang Fang*.

    Small RNAs from MITE-derived stem-loop precursors regulate ABA signaling and abiotic stress responses in rice.

    The Plant Journal **65: 820-828, 2011**

60. Yongsheng Yan, Xiaoying Chen, Kun Yang, Zongxiu Sun, Yaping Fu, Yuman Zhang*, Rongxiang Fang*.

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61. Yanmei Yang, Xia Li, Hui Yang, Yuan Qian, You Zhang, Rongxiang Fang* and Xiaoying Chen*.

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    Science in China (Series C) **54: 82-89, 2011**

62. Mo Li, Yantao Jia, Rongxiang Fang*.

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    Chinese Journal of Biotechnology **27: 212-218, 2011 (in Chinese)**

63. Yanmei Yang, Xia Li, Hui Yang, Yuan Qian, You Zhang, Yan Huo, Rongxiang Fang*, Xiaoying Chen*.

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    Progress in Biochemistry and Biophysics **38: 60-66, 2011 (in Chinese)**

64. Hong Liang, Ying-Tao Zhao, Jie-Qiong Zhang, Xiu-Jie Wang, Rong-Xiang Fang*, Yan-Tao Jia*

    Identification and functional characterization of small non-coding RNAs in Xanthomonas oryzae pathovar oryzae

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65. Weina Hou[#], Chengguo Duan[#], Rongxiang Fang, Xiaoyang Zhou[*], Huishan Guo[*]
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66. Hui Zhu, Chengguo Duan, Weina Hou, Quansheng Du, Dianqiu Lv, Rongxiang Fang and Huishan Guo*
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67. Yuman Zhang, Yumei Zheng, Na Xiao, Lina Wang, Yao Zhang, Rongxiang Fang, Xiaoying Chen*.
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68. Yuman Zhang, Yongsheng Yan, Lina Wang, Kun Yang, Na Xiao, Yunfeng Liu, Yaping Fu, Zongxiu Sun, Rongxiang Fang and Xiaoying Chen*.
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69. Sadia Hamera, Xiaoguang Song, Lei Su, Xiaoying Chen*, Rongxiang Fang*.
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70. Lina Wang#,Yunfeng Liu#, Yuman Zhang*, Rongxiang Fang, Qinglin Liu*.
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71. Zhang Jingxi, Kan Jinhong, Zhang Jieqiong, Guo Ping, Chen Xiaoying, Fang Rongxiang*, and Jia Yantao*.
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68. Yuman Zhang, Lijuan Lian, Qing Liu, Na Xiao, Rongxiang Fang, Qinglin Liu* and Xiaoying Chen*. Altered expression of CmNRRa changes flowering time of *Chrysanthemum morifolium*. ***Plant Biotechnology Journal*** **online 11: 373-379, 2013**

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70. Hongyan Guo, Xiaoguang Song, Chuanmiao Xie, Yan Huo, Fujie Zhang, Xiaoying Chen, Yunfeng Geng*, and Rongxiang Fang*.
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73. Yongsheng Yan, Huacai Wang, Sadia Hamera, Xiaoying Chen*, Rongxiang Fang*.
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***PLANT J* 78:44-45, 2014**

74. Yan Huo#, Wenwen Liu#, Fujie Zhang, Xiaoying Chen, Li Li, Qifei Liu,Yijun Zhou, Taiyun Wei*, Rongxiang Fang* and Xifeng Wang*.
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75. Hongyan Guo#, Xiaoguang Song#, Guiling Wang, Kun Yang, Yu Wang, Libo Niu, Xiaoying Chen* and Rongxiang Fang*.
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76. Ping Guo, Yao Wu, Jia Li, Rongxiang Fang and Yantao Jia*
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77. Xiaoying Chen and Rongxiang Fang*
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