



陶小荣 老师

### 个人简历:

陶小荣, 男, 博士, 植保系教授, 博士生导师。南京农业大学2010年高层次引进人才, 从事植物病毒学研究。1995.9-1999.6, 浙江大学生命科学院(原浙江农业大学), 获理学学士学位; 1999.9 - 2004.6, 浙江大学生物技术研究所, 获生物化学与分子生物学博士学位; 2004.7-2005.3, 在上海中科院生命科学院做研究助理; 2005.4-2007.4, 在美国俄亥俄州立大学植物分子与细胞系做博士后; 从事类病毒RNA在植物中移动的研究, 2008.5-2010.4, 俄亥俄州立大学生物化学系从事真核生物转录调控研究; 2010.5-至今, 南京农业大学植保学院教授。

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### 研究方向:

- (1) 病毒在细胞中的复制、移动和致病分子机制;
- (2) 病毒诱导的基因沉默;
- (3) 植物病毒病鉴定与防控;
- (4) 抗病毒基因工程

### 研究课题:

- (1) 植物病毒与寄主互作. 南京农业大学高层次人才引进计划(020-04083). 2010.1-2015.12 项目负责人
- (2) 黄瓜花叶病毒2a复制酶与豆科植物抗病蛋白RT4-4在过敏反应中的互作分子机制研究, 国家自然科学基金(30900936). 2010.1-2012.12 项目负责人
- (3) 利用黄瓜花叶病毒基因沉默载体研究植物基因组功能中央高校基本科研业务费专项基金(KYZ201001) 2010.12-2011.12 项目负责人
- (4) 灰飞虱传播的病毒病综合防控技术与示范, 公益性行业(农业)科研专项(201003031), 2010.1~2014.12. 项目组主要成员
- (5) 植物内源转运体系介导的黄瓜花叶病毒基因组RNAs长距离移动新机制, 国家自然科学基金面上项目(31171813), 2012.1~2015.12. 项目组主要负责人

### 研究成果:

发表学术论文:

- (1) Min Yao, Tianqi Zhang, Tong Zhou, Yijun Zhou, Xueping Zhou, **Xiaorong Tao\***. 2011. The 5' end of CMV/RSV chimeric mRNAs suggests a repetitive prime-and-realign-plus-direct extension mechanism involved in RSV transcription initiation. **Journal of General Virology**. (\*通讯作者, 已接收, SCI影响因子: 3.4)
- (2) Zhongze Hu, Zhike Feng, Zhijun Zhang, Yaobin Liu, **Xiaorong Tao\***. 2011. Complete genome sequence of a tomato spotted wilt virus isolate from China and comparison to other TSWV isolates of different geographic origin. **Archives of Virology**. (\*通讯作者, 已接收, 网络电子版已在线. SCI影响因子: 2.2)
- (3) Jianhe Cai, Bixia Qin, Xueping Wei, Jin Huang, Wenliang Zhou, Beisen Lin, Min Yao, Zhongze Hu, Zhike Feng, **Xiaorong Tao\***. 2011. Molecular Identification and Characterization of Tomato Zonate Spot Virus in Tobacco in Guangxi, China. **Plant Disease**. (\*通讯作者, 已接收, 网络电子版已在线. SCI影响因子: 2.4)
- (4) 姚 敏, 张天奇, 田志超, 王源超, **陶小荣\***. 2011. 农杆菌介导的CMV侵染性克隆及2b缺失突变体构建. **中国农业**

科学. 44: 3060-3068 (\*通讯作者)

(5) 翟保平, 周国辉, 陶小荣, 陈晓, 沈慧梅. 2011. 稻飞虱暴发与南方水稻黑条矮缩病流行的宏观规律和微观机制. 应用昆虫学报. 48: 480-487

(6) Lance M. Hellman, Chunxia Zhao, Manana Melikishvili, **Xiaorong Tao**, James E. Hopper, Sidney W. Whiteheart and Michael G. Fried. 2011. Histidine-tag-directed chromophores for tracer analyses in the analytical ultracentrifuge. **Methods**. 54(1):31-8. (SCI影响因子: 4.267, 电子文档已在线)

(7) Cuong Q. Diep, **Xiaorong Tao**, Vepkhia Pilaury, Mandy Losiewicz, T. Eric Blank, and James E. Hopper. 2008. Genetic evidence for sites of interaction between the Gal3 and Gal80 proteins of the *Saccharomyces cerevisiae* GAL gene switch. **Genetics**. 178: 725-736 (SCI影响因子: 4.2, 被引用次数: 2次)

(8) **Xiaorong Tao** & Xueping Zhou. 2008. Pathogenicity of a naturally occurring recombinant DNA satellite associated with tomo to yellow leaf curl China virus. **Journal of General Virology**. 89: 306-311. (SCI影响因子: 3.4, 被引用次数: 6次)

(9) Xuehua Zhong\*, **Xiaorong Tao\***, Jesse Stombaugh, Neocles Leontis, Biao Ding. 2007. Tertiary structure and function of an RNA motif required for vascular entry to initiate systemic trafficking. **EMBO J**. 26 (16): 3836-3846. (Xuehua Zhong\* 与 **Xiaorong Tao\*** 并列第一, SCI影响因子: 8.26 被引用次数: 21次)

(10) **Xiaorong Tao**, Yajuan Qian, Xueping Zhou. 2006. Modification of a viral satellite DNA-based gene silencing vector and its application to Leaf or flower color change in *Petunia hybrida*. **Chinese Science Bulletin**. 51: 2208-2213. (SCI影响因子: 0.77. 被引用次数: 2次)

(11) Xiaofeng Cui\*, **Xiaorong Tao\***, Yan Xie, Claude M Fauquet, Xueping Zhou. 2004. A DNA beta associated with Tomato Yellow Leaf Curl China Virus is required for symptom induction. **Journal of Virology**. 78:13966-74 (Xiaofeng Cui\* 与 **Xiaorong Tao\*** 并且第一. SCI影响因子: 5.33. 被引用次数: 72次)

(12) **Xiaorong Tao**, Xueping Zhou. 2004. A modified viral satellite DNA that suppresses gene expression in plants. **Plant Journal** 38:850-60 (SCI影响因子: 6.75 被引用次数: 40次)

(13) **Xiaorong Tao**, Ling Qing, Xueping Zhou. 2004. Function of A-Rich region in DNA beta associated with Tomato yellow leaf curl China virus. **Chinese Science Bulletin** 49:1490-3 (SCI影响因子: 0.77 被引用次数: 4次)

(14) **Xiaorong Tao**, Xueping Zhou, Xiaofeng Cui, Yajuan Qian. 2004. Virus induced gene silencing and its application for analysis of genomic function in plants. **Progress in Biochemistry and Biophysics** 31:777-83 (SCI影响因子: 0.215)

(15) Yan Xie, Peijun Wu, **Xiaorong Tao**, Xueping Zhou. 2004. Identification of a nanovirus-like DNA molecule associated with Tobacco curly shoot virus isolates containing satellite DNA. **Progress in Natural Science** 14:689-93 (SCI影响因子: 0.444, 被引用次数: 1次)

(16) **Xiaorong Tao**, Xueping Zhou, Guixin Li, Jialin Yu. 2003. Two amino acids on 2a polymerase of Cucumber mosaic virus co-determine hypersensitive response on legumes. **Science in China Series C-Life Sciences** 46:40-8 (SCI影响因子: 0.635.)

(17) Xueping Zhou, Yan Xie\*, **Xiaorong Tao\***, Zhongkai Zhang, Zhenghe Li, Claude M Fauquet. 2003. Characterization of DNA beta associated with begomoviruses in China and evidence for co-evolution with their cognate viral DNA-A. **Journal of General Virology** 84:237-47 (Yan Xie\* 与 **Xiaorong Tao\*** 对此工作具有相同贡献, SCI, 影响因子: 3.4, 被引用次数: 101次)

(18) Chaoyang Xue, **Xiaorong Tao**, Xueping Zhou. 2002. Coat protein gene and 3' non-coding region of tobacco mosaic virus and tomato mosaic virus are associated with viral pathogenesis in *Nicotiana tabacum*. **Progress in Natural Science** 12:679-83 (SCI影响因子: 0.444)

(19) **Xiaorong Tao**, Xueping Zhou, Guixin Li, Jialin Yu. 2002. The pathogenicity on legumes of Cucumber mosaic virus was determined by 243 nucleotides on 2a polymerase gene of viral RNA2. **Chinese Science Bulletin** 47:748-750 (SCI影响因子: 0.77)

## 实验室成员:

姚 敏 (博士: 2010级)

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