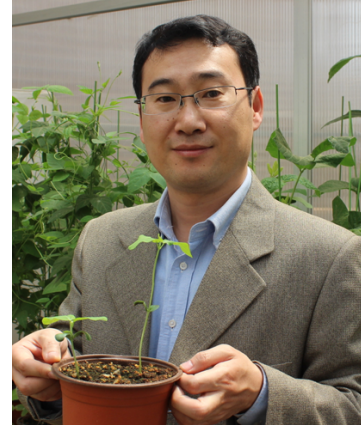


Curriculum vitae of Jianqiang Wu

CONTACT INFORMATION

Name: Jianqiang Wu
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RESEARCH INTEREST

Defense mechanisms of crop plants (maize, tomato, and soybean) against insects; plant-parasitic plant interactions

EDUCATION

09.2001- 11.2007	Ph.D. Plant Molecular Biology and Genetics Thesis: molecular study of the trypsin proteinase inhibitor defense mechanism and early herbivory-induced signaling in <i>Nicotiana</i> Awarded the Otto Hahn Medal for excellent Ph.D. work in the Max Planck Society, 2008	Department of Molecular Ecology, Max Planck Institute for Chemical Ecology, Jena, Germany; Supervisor: Prof. Ian T. Baldwin
09.1995 - 07.1998	M.S. Analytical Chemistry (Chromatography and Mass Spectrometry) Thesis: application of cyclodextrin-derivative stationary phases in separation of aromatic positional isomers in gas chromatography	Department of Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China; Supervisor: Prof. Daoqian Zhu
09.1991- 07.1995	B.S. Chemical Engineering	Department of Chemical Engineering, Dalian University of Technology, Dalian, China

ACADEMIC APPOINTMENTS

04.2012 – present: **Full Professor**, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China

01.2007 – 04.2012: **Group Leader**, Department of Molecular Ecology, Max Planck Institute for Chemical Ecology, Jena, Germany

10.1998 – 08.2001: **Research Associate**, Modern Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China

PUBLICATIONS (*corresponding authors; # co-first authors)

Review and Commentary Articles

1. **Wu, J.*** (2018) miRNAs as a secret weapon in the battlefield of haustoria, the interface between parasites and host plants. **Molecular Plant** **11**, 354–356
<https://www.ncbi.nlm.nih.gov/pubmed/29462721>
2. Hettenhausen, C., Schuman, M.C., **Wu, J.*** (2015) MAPK signaling – a key element in plant defense response to insects. **Insect Science** **22**, 157-164.
<http://www.ncbi.nlm.nih.gov/pubmed/24753304>
3. Wang, L., **Wu, J.*** (2013) The essential role of jasmonic acid in plant-herbivore interactions - using the wild tobacco *Nicotiana attenuata* as a model. **Journal of Genetics and Genomics** **40**, 597-606.
<http://www.ncbi.nlm.nih.gov/pubmed/24377866>
4. Heinrich, M., Baldwin, I.T., **Wu, J.*** (2012) Protein kinases in plant growth and defense. Protein kinases in plant growth and defense. **Journal of Endocytobiosis and Cell Research** **22**, 48-51.
5. Hettenhausen, C., Baldwin, I.T., **Wu, J.*** (2012) MAPK signaling regulates multiple stress responses in plants. **Journal of Endocytobiosis and Cell Research** **22**, 52-6.
6. Meldau, S., Baldwin, I.T., **Wu, J.*** (2011) For security and stability: SGT1 in plant defense and development. **Plant Signaling & Behavior** **6**, 1479-82.
<http://www.ncbi.nlm.nih.gov/pubmed/21897126>
7. Yang D.H., Hettenhausen C., Baldwin, I.T., **Wu, J.*** (2011) The multifaceted function of BAK1/SERK3: plant immunity to pathogens and responses to insect herbivores. **Plant Signaling & Behavior** **6**, 1322-4.
<http://www.ncbi.nlm.nih.gov/pubmed/21852758>
8. **Wu, J.***, Baldwin, I.T.* (2010) New insights into plant responses to the attack from insect herbivores. **Annual Review of Genetics** **44**, 1-24.

<http://www.ncbi.nlm.nih.gov/pubmed/20649414>

9. **Wu, J.**, Baldwin, I.T.* (2009) Herbivory-induced signaling in plants: perception and action. **Plant Cell & Environment** **32**, 1161-74.

<http://www.ncbi.nlm.nih.gov/pubmed/19183291>

Research Papers

First Author Papers

1. **Wu, J.**, Hettenhausen, C., Schuman, M.C., and Baldwin, I.T.* (2008) A comparison of two *Nicotiana attenuata* accessions reveals large differences in *Manduca sexta*-induced signaling events. **Plant Physiology** **146**, 927-39.

<http://www.ncbi.nlm.nih.gov/pubmed/18218965>

2. **Wu, J.**, Hettenhausen, C., Meldau, S., and Baldwin, I.T.* (2007). Herbivory rapidly activates MAPK signaling in attacked and unattacked leaf regions but not between leaves of *Nicotiana attenuata*. **Plant Cell** **19**, 1096-1122.

<http://www.ncbi.nlm.nih.gov/pubmed/17400894>

3. **Wu, J.**, Kang, J.H., Hettenhausen, C., and Baldwin, I.T.* (2007). Nonsense-mediated mRNA decay (NMD) silences the accumulation of aberrant trypsin proteinase inhibitor mRNA in *Nicotiana attenuata*. **Plant Journal** **51**, 693-706.

<http://www.ncbi.nlm.nih.gov/pubmed/17587303>

4. **Wu, J.**, Hettenhausen, C., Baldwin, I.T.* (2006). Evolution of proteinase inhibitor defenses in North American allopolyploid species of *Nicotiana*. **Planta** **224**, 750-760.

<http://www.ncbi.nlm.nih.gov/pubmed/16534618>

Correspondence Author Papers

2019

1. Malook, S., Qi, J., Hettenhausen, C., Xu, Y., Zhang, C., Zhang, J., Lu, C., Li, J., Wang, L., **Wu, J.*** (2019) The oriental armyworm (*Mythimna separata*) feeding induces systemic defense responses within and between maize leaves. **Philosophical Transactions of the Royal Society B** **374**: 20180307

2018

2. Qi, J., Malook, S., Shen, G., Gao, L., Zhang, C., Li, J., Zhang, J., Wang, L., **Wu, J.*** (2018) Current understanding of maize and rice defense against insect herbivores. **Plant Diversity** **40**: 189-195.

<https://www.sciencedirect.com/science/article/pii/S2468265918300696>

3. Sun, G. #, Xu, Y. #, Liu, H. #, Sun, T., Zhang, J., Hettenhausen, C., Shen, G., Qi, J., Qin, Y., Li, J., Wang, L., Chang, W., Guo, Z., Baldwin, I.T., **Wu, J.*** (2018) Large-scale gene losses underlie the genome evolution of parasitic plant *Cuscuta australis*. **Nature Communications** 9:2683.
<https://www.ncbi.nlm.nih.gov/pubmed/29992948>
4. Zhuang, H., Li, J., Song, J., Hettenhausen, C., Schuman, M., Sun, G., Zhang, C., Li, J., Song, D., **Wu, J.*** (2018) Aphid (*Myzus persicae*) feeding on the parasitic plant dodder (*Cuscuta australis*) activates defense responses in both the parasite and soybean host. **New Phytologist** 218: 1586-1596.
<https://www.ncbi.nlm.nih.gov/pubmed/29575001>
5. Lei, Y., Xu, Y., Hettenhausen, C., Lu, C., Shen, G., Zhang, C., Li, J., Song, J., Lin, H. *, **Wu, J.*** (2018). Comparative analysis of alfalfa (*Medicago sativa* L.) leaf transcriptomes reveals genotype-specific salt tolerance mechanisms. **BMC Plant Biology** 18:35
<https://www.ncbi.nlm.nih.gov/pubmed/29448940>
6. Lu, C., Qi, J., Hettenhausen, C., Lei, Y., Zhang, J., Zhang, M., Zhang C., Song J., Li, J., Cao, G., Malook, S.U., **Wu, J.*** (2018) Elevated CO₂ differentially affects tobacco and rice defense against lepidopteran larvae via the jasmonic acid signaling pathway. **Journal of Integrative Plant Biology** 60: 412-431
<https://www.ncbi.nlm.nih.gov/pubmed/29319235>
7. Qi, J., Zhang, M., Lu, C., Hettenhausen, C., Tan, Q., Cao, G., Zhu, X., Wu, G., **Wu, J.*** (2018) Ultraviolet-B enhances the resistance of multiple plant species to lepidopteran insect herbivory through the jasmonic acid pathway. **Scientific Reports** 8:277
<https://www.ncbi.nlm.nih.gov/pubmed/29321619>

2017

8. Song, J., Liu, H., Zhuang, H., Zhao, C., Xu, Y., Wu, S., Qi, J., Li, J., Hettenhausen, C. *, **Wu, J.*** (2017) Transcriptomics and alternative splicing analyses reveal large differences between maize lines B73 and Mo17 in response to aphid *Rhopalosiphum padi* Infestation. **Frontiers in Plant Science** 8:1738.
<https://www.ncbi.nlm.nih.gov/pubmed/29067035>
9. Hettenhausen, C. #, Li, J. #, Zhuang, H., Sun, H., Xu, Y., Qi, J., Zhang, J., Lei, Y., Qin, Y., Sun, G., Wang, L., Baldwin, I.T., **Wu, J.*** (2017) The stem parasitic plant *Cuscuta*

australis (dodder) transfers herbivory-induced signals among plants. **Proceedings of National Academy of Sciences of the USA** 114: E6703-E6709.

<https://www.ncbi.nlm.nih.gov/pubmed/28739895>

10. Lei, Y., Liu, Q., Hettenhausen, C., Cao, G., Tan, Q., Zhao, W., Lin, H.*, **Wu, J.*** (2017) Salt-tolerant and -sensitive alfalfa (*Medicago sativa*) cultivars have large variations in defense responses to the lepidopteran insect *Spodoptera litura* under normal and salt stress condition. **PLoS One** 12: e0181589.

<https://www.ncbi.nlm.nih.gov/pubmed/28719628>

2016

11. Sun, T., Renner, S., Xu, Y., Qin, Y., **Wu, J.***, Sun, G.* (2016) Two *hAT* transposon genes were transferred from Brassicaceae to broomrapes and are actively expressed in some recipients. **Scientific Reports** 6:30192.

<https://www.ncbi.nlm.nih.gov/pubmed/27452947>

12. Luo, J., Wei, K., Wang, S., Zhao, W., Ma, C., Hettenhausen, C., Wu, J., Cao, G., Sun, G., Baldwin, I. T., **Wu, J.***, Wang, L*. (2016) COI1-regulated hydroxylation of jasmonoyl-L-iso-leucine impairs *Nicotiana attenuata*'s resistance to the generalist herbivore *Spodoptera litura*. **Journal of Agricultural and Food Chemistry** 64, 2822-2831

<http://www.ncbi.nlm.nih.gov/pubmed/26985773>

13. Qi, J. #, Sun, G. #, Wang, L. #, Zhao, C. #, Hettenhausen, C., Schuman, M.C., Baldwin, I.T., Li, J., Song, J., Liu, Z., Xu, G., Lu, X., **Wu, J.*** (2016) Oral secretions from *Mythimna separata* insects specifically induce defense responses in maize as revealed by high-dimensional biological data. **Plant Cell & Environment** 39, 1749-1766

<http://www.ncbi.nlm.nih.gov/pubmed/26991784>

14. Hettenhausen, C#, Sun, G. #, He, Y., Zhuang, H., Sun, T., Qi, J., **Wu, J.*** (2016) Genome-wide identification of calcium-dependent protein kinases in soybean and analyses of their transcriptional responses to insect herbivory and drought stress. **Scientific Reports**, 6: 18973.

<http://www.ncbi.nlm.nih.gov/pubmed/26733237>

2015

15. Li, J., Hettenhausen, C., Sun, G., Zhuang, H., Li, J. H.*, **Wu, J.*** (2015) The parasitic plant *Cuscuta australis* is highly insensitive to abscisic acid-induced suppression of hypocotyl elongation and seed germination. **PLoS One**, 10: e0135197.

<http://www.ncbi.nlm.nih.gov/pubmed/26258814>

2014

16. Hettenhausen, C., Heinrich, M., Baldwin, I.T., **Wu, J.*** (2014) Fatty acid-amino acid conjugates are essential for systemic activation of salicylic acid-induced protein kinase and accumulation of jasmonic acid in *Nicotiana attenuata*. **BMC Plant Biology**, 14, 326.
<http://www.ncbi.nlm.nih.gov/pubmed/25430398>
17. Zhang, D., Qi, J., Yue, J., Huang, J., Sun, T., Li, S., Wen, J., Hettenhausen, C., Wu, J., Wang, L., Zhuang, H., **Wu, J.*** and Sun, G.* (2014), Root parasitic plant *Orobanchae aegyptiaca* and shoot parasitic plant *Cuscuta australis* obtained Brassicaceae-specific strictosidine synthase-like genes by horizontal gene transfer. **BMC Plant Biology** 14, 19.
<http://www.ncbi.nlm.nih.gov/pubmed/24411025>

2013

18. Hettenhausen, C., Baldwin, I.T., **Wu, J.*** (2013) *Nicotiana attenuata* MPK4 suppresses a novel JA signaling-independent defense pathway against the specialist insect *Manduca sexta* but is not required for the resistance to the generalist *Spodoptera littoralis*. **New Phytologist** 199, 787-99.
<http://www.ncbi.nlm.nih.gov/pubmed/23672856>
19. Yang, D.H., Baldwin, I.T., **Wu, J.*** (2013) Silencing brassinosteroid receptor *BRI1* impairs herbivory-elicited accumulation of jasmonic acid-isoleucine and diterpene glycosides, but not jasmonic acid and trypsin proteinase inhibitors in *Nicotiana attenuata*. **Journal of Integrative Plant Biology** 55, 514-526.
<http://www.ncbi.nlm.nih.gov/pubmed/23347255>
20. Heinrich, M., Hettenhausen, C., Lange, T., Wünsche, H., Fang, J., Baldwin, I.T., **Wu, J.*** (2013) High levels of jasmonic acid antagonize the biosynthesis of gibberellins and inhibit the growth of *Nicotiana attenuata* stems. **Plant Journal** 73, 591-606.
<http://www.ncbi.nlm.nih.gov/pubmed/23190261>
21. Hettenhausen, C., Yang, D.H., Baldwin, I.T., **Wu, J.*** (2013) Calcium-dependent protein kinases, CDPK4 and CDPK5, affect early steps of jasmonic acid biosynthesis in *Nicotiana attenuata*. **Plant Signaling & Behavior** 8, e22784
<http://www.ncbi.nlm.nih.gov/pubmed/23221744>

2012

22. Yang, D.H., Hettenhausen, C., Baldwin, I.T., **Wu, J.*** (2012) Silencing *Nicotiana attenuata* calcium-dependent protein kinases, CDPK4 and CDPK5, strongly upregulates wound- and herbivory-induced jasmonic acid accumulations. **Plant Physiology** **159**, 1591-607
<http://www.ncbi.nlm.nih.gov/pubmed/22715110>
23. Hettenhausen, C., Baldwin, I.T., **Wu, J.*** (2012) Silencing *MPK4* in *Nicotiana attenuata* enhances photosynthesis and seed production but compromises abscisic acid-induced stomatal closure and guard cell-mediated resistance to *Pseudomonas syringae* pv. *tomato* DC3000. **Plant Physiology** **158**, 759-76
<http://www.ncbi.nlm.nih.gov/pubmed/22147519>
24. Shi, C., Baldwin, I.T., **Wu, J.*** (2012) Arabidopsis nonsense-mediated mRNA decay factors, UPF1, UPF2, and UPF3, are involved in plant development and wounding- and pathogen-induced responses. **Journal of Integrative Plant Biology** **54**, 99-114.
<http://www.ncbi.nlm.nih.gov/pubmed/22353561>
25. Heinrich, M., Baldwin, I.T., **Wu, J.*** (2012) Three MAPK kinases, MEK1, SIPKK and NPK2, are not involved in activation of SIPK after wounding and herbivore feeding but important for accumulation of trypsin proteinase inhibitors. **Plant Molecular Biology Reporter** **30**, 731-40.
<http://www.springerlink.com/content/ph4hq3w1318k5503/>
- 2011**
26. Heinrich, M., Baldwin, I.T., **Wu, J.*** (2011) Two mitogen-activated protein kinase kinases, MKK1 and MEK2, are involved in wounding- and specialist lepidopteran herbivore *Manduca sexta*-induced responses in *Nicotiana attenuata*. **Journal of Experimental Botany** **62**, 4355-65.
<http://www.ncbi.nlm.nih.gov/pubmed/21610019>
27. Wünsche, H., Baldwin, I.T., **Wu, J.*** (2011) S-Nitrosoglutathione reductase (GSNOR) mediates resistance of *Nicotiana attenuata* to the specialist insect herbivore *Manduca sexta*. **Journal of Experimental Botany** **62**, 4605-16.
<http://www.ncbi.nlm.nih.gov/pubmed/21622839>
28. Wünsche, H., Baldwin, I.T., **Wu, J.*** (2011) Silencing *NOA1* elevates herbivory-induced JA accumulation and compromises most of carbon-based defense metabolites in *Nicotiana attenuata*. **Journal of Integrative Plant Biology** **53**, 619-31.
<http://www.ncbi.nlm.nih.gov/pubmed/21457460>

29. Yang, D.H., Hettenhausen, C., Baldwin, I.T., **Wu, J.*** (2011) BAK1 regulates the accumulation of jasmonic acid and the levels of trypsin proteinase inhibitors in *Nicotiana attenuata*'s responses to herbivory. **Journal of Experimental Botany** **62**, 641-52.
<http://www.ncbi.nlm.nih.gov/pubmed/20937731>
30. Meldau, S., Baldwin, I.T., **Wu, J.*** (2011) SGT1 regulates wounding- and herbivory-induced jasmonic acid accumulation and *Nicotiana attenuata*'s resistance to the specialist lepidopteran herbivore *Manduca sexta*. **New Phytologist** **189**, 1143-56.
<http://www.ncbi.nlm.nih.gov/pubmed/21118264>

Other Papers

1. Sun, T., Xu, Y., Zhang, D., Zhuang, H., **Wu, J.**, Sun, G. (2016) An acyltransferase gene that putatively functions in anthocyanin modification was horizontally transferred from Fabaceae into the genus *Cuscuta*. **Plant Diversity** **38**, 149-155.
2. Sun, H., Wang, L., Zhang, B., Ma, J., Hettenhausen, C., Cao, G., Sun, G., **Wu, J.**, Wu, J*. (2014) Scopoletin is a phytoalexin against *Alternaria alternata* in wild tobacco dependent on jasmonate signalling. **Journal of Experimental Botany** **65**, 4305-15.
<http://www.ncbi.nlm.nih.gov/pubmed/24821958>
3. Zhang, N., Han Z., Sun, G., Hoffman, A., Wilson, I.W., Yang, Y., Gao, Q., **Wu, J.**, Xie, D., Dai, J., Qiu, D. (2014) Molecular cloning and characterization of a cytochrome P450 taxoid 9alpha-hydroxylase in *Ginkgo biloba* cells. **Biochemical and Biophysical Research Communications** **443**, 938-43.
<http://www.ncbi.nlm.nih.gov/pubmed/24380857>
4. Sun, H., Hu, X., Ma, C., Hettenhausen, C., Wang, L., Sun, G., **Wu, J.**, Wu, J*. (2014) Requirement of ABA signalling-mediated stomatal closure for resistance of wild tobacco to *Alternaria alternata*. **Plant Pathology** **63**, 1070-7.
<http://onlinelibrary.wiley.com/doi/10.1111/ppa.12181/abstract>
5. Sun, G., Yang, Y., Xie, F., Wen, J.F., **Wu J.**, Wilson, I.W., Tang, Q., Liu, H., Qiu, D. (2013) Deep sequencing reveals transcriptome re-programming of *Taxus × media* cells to the elicitation with methyl jasmonate. **PLoS One** **8**, e62865.
<http://www.plosone.org/article/info:doi/10.1371/journal.pone.0062865>
6. Yu, S., Cao, L., Zhou, C.M., Zhang, T.Q., Lian, H., Sun, Y., **Wu, J.**, Wang, G., Wang, J.W., (2013) Sugar is an endogenous cue for juvenile-to-adult phase transition in plants. **eLife** **2**, e00269.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3610343/>

7. Deng, W.W., Zhang, M., **Wu J.**, Li, Y.Y., Wei, C.L.* , Jiang, C.J., Wan, X.C. (2013) Molecular cloning, functional analysis of three *cinnamyl alcohol dehydrogenase* (CAD) genes in the leaves of tea plant, *Camellia sinensis*. **Journal of Plant Physiology** **170**, 272-282
<http://www.ncbi.nlm.nih.gov/pubmed/23228629>
8. Meldau, S., **Wu, J.**, Baldwin, I.T.* (2009) Silencing two herbivory-activated MAP kinases, SIPK and WIPK, does not increase *Nicotiana attenuata*'s susceptibility to herbivores in the glasshouse and in nature. **New Phytologist** **181**, 161-73.
<http://www.ncbi.nlm.nih.gov/pubmed/19076722>
9. Rayapuram, C., **Wu, J.**, Hase, C., and Baldwin, I.T.* (2008) PR-13/Thionin not PR-1 mediates bacterial resistance in *Nicotiana attenuata* in nature and neither influences herbivore resistance. **Molecular Plant-Microbe Interactions** **21**, 988-1000.
<http://www.ncbi.nlm.nih.gov/pubmed/18533839>
10. Horn, M., Patankar, A.G., Zavala, J.A., **Wu, J.**, Doleckova-Maresova, L., Vujtechova, M., Mares, M., Baldwin, I.T.* (2005). Differential elicitation of two processing proteases controls the processing pattern of the trypsin proteinase inhibitor precursor in *Nicotiana attenuata*. **Plant Physiology** **139**, 375-388.
<http://www.ncbi.nlm.nih.gov/pubmed/16113221>

Book Chapters

1. Hettenhausen C, Baldwin, I.T., **Wu J.** (2014) Virus-induced gene silencing in plant MAPK research. **Methods in Molecular Biology – Plant MAP Kinases: Methods and Protocols**. Eds. G. Komis, J. Samaj, Humana Press Inc. 1171:79-89
<http://www.ncbi.nlm.nih.gov/pubmed/24908121>
2. Galis I., Schuman M.C., Gase K., Hettenhausen C., Hartl M., Dinh S.T., **Wu J.**, Bonaventure G., Baldwin I.T. (2013) The use of VIGS technology to study plant-herbivore interactions. **Methods in Molecular Biology - Virus-induced gene silencing: Methods and protocols**. Eds. A. Becker, Humana Press Inc. 975:109-37
<http://www.ncbi.nlm.nih.gov/pubmed/23386299>
3. Tretyakov, A., Mrotzek, G., **Wu, J.**, Baldwin, I.T., Saluz, H.P.* (2006). Rapid heatblock thermocycling of small samples: a path to fast, low-cost plant genotyping. **Floriculture, Ornamental and Plant Biotechnology**. Vol. 4. Global Science Books, Isleworth, 226 - 230.

TALKS

1. **The 5th International Conference on Biotic Plant Interactions**, Aug. 17-21, 2017
2. **17th Plant Genomics Conference in China**, Fuzhou, China, Aug. 19-21, 2016
3. **11th National Congress of Chemical Ecology**, Wuhan, China, July 22-24, 2016
4. **National Congress of Plant Biology**, Changchun, China, Oct. 9-12, 2015
5. **International Symposium on “From Ecosystems to Modern Agriculture”**, Lanzhou, China, June 26–27, 2015
6. **13th Congress on Parasitic Plants**, Kunming, China, 5-10 July 2015
7. **3rd International Conference on Plant Metabolism**, Xiamen, China, July 2-5, 2014
8. **10th Solanaceae Conference (SOL 2013)**, Beijing, China, Oct. 13-17, 2013
9. The important roles of MAPKs in plant defense against herbivores. **Invited talk, Institute of Zoology, Chinese Academy of Sciences**, Beijing, China, Jun 4, 2013
10. Herbivory-induced signaling in plants – MAPKs go ahead. **Invited talk, Institute of Botany, Chinese Academy of Sciences**, Beijing, China, Nov. 12, 2012
11. Herbivory-induced signaling in plants – MAPKs go ahead. Invited talk, **Institute of Genetics and Developmental Biology, Chinese Academy of Sciences**, Beijing, China, Nov. 14, 2012
12. MPK4 in stress signaling. **Invited talk, Huazhong Agricultural University**, Wuhan, China, Jul. 18, 2012
13. Functions of MAPK signaling in plant resistance to herbivores. **Invited lecture, Chinese Academy of Forestry**, Beijing, China, Dec. 27, 2011
14. MPK4 in *Nicotiana attenuata*: a multifaceted MAPK involved in biotic and abiotic resistance. **2nd International Symposium on Integrative Plant Biology, Invited lecture**, Lanzhou, China, Aug. 26-28, 2011
15. Herbivory-Induced Signaling in Plants: Perception and Action. **Invited lecture, Anhui Agricultural University**, Feb 21, 2011
16. When an herbivore takes a bite, does the plant know? **Invited plenary lecture, International Conference on Plant Vascular Biology and Agriculture**, Chongqing, China, June 21-24, 2009
17. NaCDPK1 mediates heat resistance in *Nicotiana attenuata*. **Max Planck Institute for Chemical Ecology**, Jena, Germany, Sept. 25-26, 2008

18. MAP kinases regulate *Nicotiana attenuata*'s defense responses to herbivory.
Department of Life Sciences, **Nanjing University**, Nanjing, China, June 6, 2008
19. Genetic modifications of *Nicotiana attenuata* reveal functions of plant secondary metabolites in resistance to herbivory; **Invited plenary lecture, International Conference on Plant Secondary Metabolism**, Kunming, China, June 8-10, 2008
20. MAP kinases regulate defense responses to herbivory in *Nicotiana attenuata*; **Max Planck Institute for Chemical Ecology**, Jena, Germany, Sept. 2007
21. The evolution of proteinase inhibitor defense mechanisms during polyploidy speciation in *Nicotiana* native to North America, **Workshop DFG-SPP 1152 "Evolution of metabolic diversity"**, Halle, Germany, Oct. 2004
22. The evolution of herbivory-specific expression of proteinase inhibitors during polyploidy speciation in *Nicotiana* native to North America; **Botanikertagung 2004/Deutsche Botanische Gesellschaft, Vereinigung für Angewandte Botanik, Braunschweig**, Germany, Sept. 2004

TEACHING

1. "Plant Molecular Biology", Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, June 2013
2. "Transfection of Arabidopsis Protoplasts", Max Planck International Research School, basic lecture, Max Planck Institute for Chemical Ecology, Jena, Feb. 6-8, 2012
3. "Advanced Molecular Cloning and Application of Arabidopsis Protoplasts", Max Planck International Research School, basic lecture, Max Planck Institute for Chemical Ecology, Jena, November 7-11, 2011
4. "Application of quantitative real-time PCR in ecological studies", Ecology Workshop, Friedrich Schiller University, Jena, July 2010
5. "Basic Knowledge of Molecular Cloning", Max Planck International Research School, basic lecture, Max Planck Institute for Chemical Ecology, Jena, June 2009
6. "Molecular Cloning of PCR Products", Ecology Workshop, Friedrich Schiller University, Jena, July 2008

EDITORIAL SERVICE

- Co-editor of Journal of Integrative Plant Biology (2010-present)
- Review Editor of Frontiers in Ecology and Evolution (2014-present)

- Editor of Plant Diversity (2015-present)

AWARDS RECEIVED

Jun. 2008, Otto Hahn medal, Max Planck Society.

GRANTS

1. Aug. 2017, Key International Collaborative Program, Chinese Academy of Sciences (2018-2020)
2. Jan. 2016, National Science Foundation of China-Yunnan Joint Grant (2016-2019)
3. Jan. 2015, National Science Foundation of China (2015-2018)
4. May 2014, the Strategic Priority Research Program of the Chinese Academy of Sciences (2014-2019)
5. Oct. 2013, “Max Planck Partner Group” grant, from the Max Planck Society (2013-2018).
6. Oct. 2012, “Top talents program of Yunnan Province” (No. 2012HA016), from Yunnan Global Talents Affairs Leading Group (2012-2015)
7. Jan. 2012, awarded the “Thousand Young Talent Program” from China (2012-2015)
8. Startup grant from the Kunming Institute of Botany, Chinese Academy of Sciences (2012-2015)
9. Dec. 2011, awarded Marie Curie International Outgoing Fellowship (scored 96.1/100) from the European Union (hosts: Prof. Detlef Weigel, Max Planck Institute for Developmental Biology and Prof. Lynne E. Maquat, University of Rochester)

SUPERVISION

Postdocs and Visiting Scientists

1. Juan Song (Dec. 2018-present), postdoc, Ph.D. from Kunming Institute of Botany, CAS
2. Yunting Lei (Jan. 2018-present), Ph.D. from Sichuan University
3. Sen Li (Dec. 2017-present), postdoc, Ph.D. from Zhejiang University
4. Hui Liu (Apr. 2016-present), postdoc, Ph.D. from Kunming Institute of Zoology, CAS
5. Yan Qin (Jul. 2014-Dec. 2017), postdoc, Ph.D. from Kunming Institute of Zoology, CAS
6. Dale Zhang (Oct. 2014.10-Jan. 2015), visiting scientist, Professor at Henan University

7. Christian Hettenhausen (Apr. 2012-Apr. 2018), postdoc, Ph.D. from the Max Planck Institute for Chemical Ecology, Germany, funded by the “Fellowship for Young International Scientists” program from CAS.
8. Jinfeng Qi (Jun. 2012-Dec. 2016), postdoc, Ph.D. from Zhejiang University, China.
9. Maria Heinrich (Oct. 2012-Dec. 2012), visiting scientist, from the Max Planck Institute for Chemical Ecology, Germany.

Ph.D. Theses

1. Yohannes Besufekad (Jan. 2019-present), Kunming Institute of Botany, CAS
2. Canrong Ma (Sept. 2018-present), Kunming Institute of Botany, CAS
3. Na Xue (Sept. 2018-present), Kunming Institute of Botany, CAS
4. Nian Liu (Sept. 2015-present), Kunming Institute of Botany, CAS
5. Saif Ul Malook (Oct. 2015-present), Kunming Institute of Botany, CAS
6. Jingxiong Zhang (Sept. 2014-present), Kunming Institute of Botany, CAS
7. Yuxing Xu (Sept. 2014-present), Kunming Institute of Botany, CAS
8. Cuiping Zhang (Sept. 2013-present), Kunming Institute of Botany, CAS
9. Chengkai Lu (Sept. 2014-July 2018), Kunming Institute of Botany, CAS
10. Yunting Lei (Apr. 2014-Nov. 2017), The interaction among abscisic acid, jasmonic acid, and strigolactones for regulating plant salt-tolerance and herbivore-resistance. Sichuan University
11. Juan Song (Sept. 2013- July 2018), Kunming Institute of Botany, CAS
12. Huifu Zhuang (Sept. 2013-July 2018), Kunming Institute of Botany, CAS
13. Juan Li (Jan. 2013- Jan. 2016), Studies on the response of the parasitic plant *Cuscuta* to phytohormones and herbivory-induced inter-plant signaling mediated by *Cuscuta*. Huazhong Agricultural University
14. Dahai Yang (Apr. 2007-Mar. 2011), Functions of protein kinases, calcium-dependent protein kinases (CDPKs) and BRI1-associated kinase 1 (BAK1), in wild tobacco (*Nicotiana attenuata*) immunity to herbivore and pathogen. Max Planck Institute for Chemical Ecology.
15. Hendrik Wünsche (Jul. 2008-Jun. 2011), Involvement of two nitric oxide-associated genes, NOA1 and GSNOR, in *Nicotiana attenuata*'s resistance to the specialist insect herbivore *Manduca sexta*. Max Planck Institute for Chemical Ecology.

16. Christian Hettenhausen (Feb. 2007-Dec. 2011), Mitogen-activated protein kinase 4 (MPK4) functions in development and resistance to biotic and abiotic stresses in *Nicotiana attenuata*. Max Planck Institute for Chemical Ecology.
17. Stefan Meldau (Jan. 2007-Mar. 2012), Early herbivory-induced responses in plants. Max Planck Institute for Chemical Ecology.
18. Maria Heinrich (Jan. 2009-Jul. 2012), Functions of MAPKKs in plant resistance to herbivore in *Nicotiana attenuata*. Max Planck Institute for Chemical Ecology.

Master Theses

1. Che Zhan (Sept. 2017-present), Kunming Institute of Botany, CAS
2. Lei Gao (Sept. 2016-present), Yunnan University
3. Jiaxin Wen (Sept. 2016-present), Yunnan University
4. Menghua Mu (Sept. 2015-July 2018), Kunming Institute of Botany, CAS
5. Lingdan Zhang (Sept. 2013-July 2016), A study on the application of a PEG-mediated transient gene expression system in maize mesophyll protoplasts, Anhui Agricultural University.
6. Chuan Shi (May 2010-Jun. 2011), Die Bedeutung der nonsense-mediated mRNA decay Proteine UPF1, UPF2 und UPF3 im Hinblick auf die Pflanzenentwicklung und der abiotischen und biotischen Stressantwort.

Diploma Theses

1. Christian Hettenhausen (10.2004-07.2006), Characterization of a trypsin protease inhibitor-deficient ecotype of *Nicotiana attenuata* collected from Arizona.
2. Stefan Meldau (Jan. 2005–Dec. 2006), MAP kinase signaling mediates plant defense against herbivores.

Bachelor Theses

1. Yvonn Stampnik (11.2008-05.2009), BAK1 regulates herbivore feeding-induced jasmonic acid accumulation and secondary metabolite contents in *Nicotiana attenuata*