

Curriculum vitae of Lei Wang

CONTACT INFORMATION

Name: Lei Wang
Address: Kunming Institute of Botany,
Chinese Academy of Sciences (CAS)
Lanhei Road 132
Kunming 650201, Yunnan, China
Phone: +86 871 5229552
E-mail: leiwang@mail.kib.ac.cn
ORCID: 0000-0003-0734-7026



EDUCATION AND WORK EXPERIENCE

Dec. 2011-present: **Associate Professor**, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China
Aug. 2005-Aug. 2007: **Postdoc**, Max Planck Institute for Chemical Ecology, Jena, Germany
Sep. 2001-Jun. 2005: **Ph. D**, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China
Sep. 1998-Jul. 2001: **M.S**, School of Life Sciences, Zhongshan University, Guangzhou, China
Sep. 1994-Jul. 1998: **B.S**, Department of Biology, Lanzhou University, Lanzhou, China

RESEARCH INTEREST

Maize-insect interaction
Thigmomorphogenesis

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

Yang, F.#, Tang, J.#, Yang, D.#, Yang, T., Liu, H., Luo, W., Wu, J., Wu, J., **Wang, L.*** (2020)
Jasmonoyl-L-isoleucine and allene oxide cyclase-derived jasmonates differently regulate gibberellin metabolism in herbivory-induced inhibition of plant growth. **Plant Sci** (in press)

Tang, J., Yang, D., Wu, J., Chen, S., and **Wang, L.*** (2020). Silencing JA hydroxylases in *Nicotiana attenuata* enhances jasmonic acid-isoleucine-mediated defenses against *Spodoptera litura*. **Plant Divers** 42, 111-119.

Zhang, C., Lei, Y., Lu, C., **Wang, L.***, and Wu, J.* (2020). MYC2, MYC3, and MYC4 function additively in wounding-induced jasmonic acid biosynthesis and catabolism. **J Integr Plant Biol** 62, 1159-1175.

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., and Wu, J. (2018). Large-scale gene losses underlie the genome evolution of parasitic plant *Cuscuta australis*. **Nat Commun** 9, 2683.

Hettenhausen, C., Li, J., Zhuang, H.F., Sun, H.H., Xu, Y.X., Qi, J.F., Zhang, J.X., Lei, Y.T., Qin, Y., Sun, G.L., **Wang, L.**, Baldwin, I.T., and Wu, J.Q. (2017). Stem parasitic plant *Cuscuta australis* (dodder) transfers herbivory-induced signals among plants. **P Natl Acad Sci USA** 114, E6703-E6709.

Luo, J., Wei, K., Wang, S.H., Zhao, W.Y., Ma, C.R., Hettenhausen, C., Wu, J.S., Cao, G.Y., Sun, G.L., Baldwin, I.T., Wu, J.Q.*, and **Wang, L.*** (2016). COI1-Regulated Hydroxylation of Jasmonoyl-L-isoleucine Impairs *Nicotiana attenuata*'s Resistance to the Generalist Herbivore *Spodoptera litura*. **J Agr Food Chem** 64, 2822-2831.

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

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

Sun, H.H., **Wang, L.**, Zhang, B.Q., Ma, J.H., Hettenhausen, C., Cao, G.Y., Sun, G.L., Wu, J.Q., and Wu, J.S. (2014). Scopoletin is a phytoalexin against *Alternaria alternata* in wild tobacco dependent on jasmonate signalling. **Journal of Experimental Botany** 65, 4305-4315.

Wang, L., and Wu, J.Q. (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.

Wang, L., Allmann, S., Wu, J.S., and Baldwin, I.T. (2008). Comparisons of LIPOXYGENASE3- and JASMONATE-RESISTANT4/6-silenced plants reveal that jasmonic acid and jasmonic acid-amino acid conjugates play different roles in herbivore resistance of *Nicotiana attenuata*. **Plant Physiol** 146, 904-915.

Wang, L., Halitschke, R., Kang, J.H., Berg, A., Harnisch, F., and Baldwin, I.T. (2007). Independently silencing two JAR family members impairs levels of trypsin proteinase inhibitors but not nicotine. **Planta** 226, 159-167.

Wu, J., **Wang, L.**, and Baldwin, I.T. (2008). Methyl jasmonate-elicited herbivore resistance: does MeJA function as a signal without being hydrolyzed to JA? **Planta** 227, 1161-1168.

Kang, J.H.; **Wang, L.**; Giri, A.; Baldwin, I.T. (2006): Silencing threonine deaminase and JAR4 in *Nicotiana attenuata* impairs jasmonic acid-isoleucine-mediated defenses against *Manduca sexta*. **The Plant Cell** 18, 3303-3320

Dong, L.; **Wang, L.**; Zhang, Y.; Zhang, Y.; Deng, X.; Xue, Y. (2006): An auxin-inducible F-box protein CEGENDUO negatively regulates auxin-mediated lateral root formation in *Arabidopsis*. **Plant Mol. Biol.** 60:599-616

Li, H.G.; **Wang, L.**; Zhang, Y.S.; Lin, X.D.; Liao, B.; Yan, Y.S.; Huang, S.Z. (2005): Cloning and sequencing of the gene *Ahy-β* encoding a subunit of peanut conarachin. **Plant Science** 168:1387-1392

Wang, L.; Yan, Y.S.; Liao, B.; Lin, X.D.; Huang, S.Z. (2005): The cDNA cloning of *Conarachin* gene and its expression in developing peanut seeds. **Journal of Plant Physiology and Molecular Biology** 31:107-110. (In Chinese)

Wang, L.; Dong, L.; Zhang, Y.E.; Zhang, Y.; Wu, W.; Deng, X.W.; Xue, Y. (2004): Genome-wide analysis of S-locus F-box -like genes in *Arabidopsis thaliana*. **Plant Mol. Biol.** 56:929-945