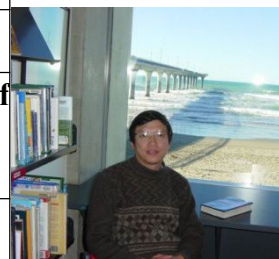


# CURRICULUM VITAE

Personal Information			
Name	<b>Hongyu Zhang</b>	Gender	Male
Position Title	<b>Professor, PhD</b>		
Working Department	<b>Department of Plant Protection, College of Plant Science and Technology, Huazhong Agricultural University</b>		
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Research Interest			
<ol style="list-style-type: none"> <li>1. Insect molecular biology and microbiology,</li> <li>2. Horticultural and Urban Entomology</li> <li>3. Insect Pest Management</li> </ol>			
Professional Memberships			
<p><b>Principal: Hongyu Zhang, Professor.</b>  <b>Memberships: Weiwei Zheng, Associate professor.</b>  <b>Shanqing Wang, Associate professor.</b>  <b>Zhenyu Zhang, Lecturer.</b></p>			
Other Roles			
Teaching Agricultural Entomology and Quarantine Entomology			
Education & Working Experience			
<p><b>Education Experience</b></p> <p><b>Ph.D.</b> College of Life Sciences and Technology, Huazhong Agricultural University, Wuhan, 430070 China in June, 1998. Major in Microbiology.</p> <p><b>Master of Science</b> Department of Plant Protection, Huazhong Agricultural University in June, 1991. Major in Entomology.</p> <p><b>Bachelor of Science</b> Department of Plant Protection, Hunan Agricultural University, Changsha, China. in June, 1986. Major in Plant Protection.</p> <p><b>Work experience</b></p>			



Aug. 2004 – Present: Department of Plant Protection, college of Plant Science and Technology, Huazhong Agricultural University.

Position: A professor and researcher in molecular Entomology and Insect Microbiology.

Aug. 2013 – Feb. 2014: University of Florida, **USA**.

Position: A Visiting Entomologist.

May. 2002 – Aug. 2005: Michigan State University, **USA**.

Position: A Senior Visiting Entomologist.

Sept. 2002 – Aug. 2004: AgResearch Lincoln, **New Zealand**.

Position: A Visiting Entomologist.

Jul. 2001 – Aug. 2002: Department of Biology, Konstanz University, **Germany**.

Position: A postdoctoral fellow in purification and characterization of proteinases of insect guts.

Mar.1999- Nov.1999: Agricultural Research Center, **Israel**.

Position: A Visiting Entomologist.

Jul.1998- Jun. 2001: Department of Plant Protection, Huazhong Agricultural University.

Position: An associate professor and researcher in Insect Microbiology.

Jul.,1991– Jul.1998:Department of Plant Protection, Huazhong Agricultural University.

Position: A lecturer and researcher in Insect Microbiology.

## Publications

Yao Z.C., Wang A.L., Li Y.S., Cai Z.H., Lemaitre B., **Zhang, H.Y.\***. 2015. The dual oxidase gene *BdDuox* regulates the intestinal bacterial community homeostasis of *Bactrocera dorsalis*. *ISME J.* doi:10.1038/ismej.2015.202 (SCI, IF 9.302)

Li, X.X., Dong, X.L., Zou, C., **Zhang, H.Y.\***. 2015. Endocytic pathway mediates refractoriness of insect *Bactrocera dorsalis* to RNA interference. *Scientific reports.* 5:8700(SCI, IF 5.578)

Tariq K., Peng W., Saccone G., **Zhang H.Y.\***. 2015. Identification, characterization and target gene analysis of testicular microRNAs in the oriental fruit fly *Bactrocera dorsalis*. *Insect Molecular Biology.*doi: 10.1111/imb.12196 (SCI, IF 2.589)

Peng W., Zheng W.P., Alfred M. Handler, **Zhang H.Y.\***. 2015. The role of the transformer gene in sex determination and reproduction in the tephritid fruit fly, *Bactrocera dorsalis* (Hendel).*Genetica.* 143:717–727 (SCI, IF 1.4)

Tariq K., Noor M. ,Saeed S., **Zhang H.Y.\***. 2015. The Effect of Ultraviolet-A Radiation Exposure on the Reproductive Ability, Longevity, and Development of the *Dialeurodes citri* (Homoptera: Aleyrodidae) F1 Generation. *Environ. Entomol.* 1–5 (2015); DOI: 10.1093/ee/nvv133(SCI, IF 1.295)

Zheng W.P., Liu Y.R., Zheng W.W., Xiao Y.L., **Zhang H.Y.\***. 2015. Influence of the silencing sex-peptide receptor on *Bactrocera dorsalis* adults and offspring by feeding with ds-spr.

- Journal of Asia-Pacific Entomology. 18: 477–481(SCI, IF 0.946)
- Dong X. L., Li Q.J., **Zhang H.Y.\***. 2015. The noa gene is functionally linked to the activation of the Toll/Imd signaling pathways in *Bactrocera dorsalis* (Hendel). *Developmental and Comparative Immunology*. DOI: 10.1016/j.dci.2015.09.009(SCI, IF2.815)
- Chen A.E., Zheng W.W., Zheng W.P., **Zhang H.Y.\***. 2015. The effects of RNA interference targeting *Bactrocera dorsalis* ds-Bdrpl19 on the gene expression of rpl19 in non-target insects. *Ecotoxicology*. 24:595–603(SCI, IF2.706)
- Sheng P., Li Y.S., Marshall Sean D.G. and **Zhang H.Y.\***. 2015. High Genetic Diversity of Microbial Cellulase and Hemicellulase Genes in the Hindgut of *Holotrichia parallela* Larvae. *Int. J. Mol. Sci*. 16: 16545-16559 (SCI, IF2.862)
- Marco S. mini\*, Kallare P. A., Javaregowda N., **Zhang H.Y.\***, Weiwei Zheng, Giuseppe Saccone. 2014. De Novo Assembly and Transcriptome Analysis of the Mediterranean Fruit Fly *Ceratitis capitata* Early Embryos. *PLOS ONE* 9(12):e114191.DOI:10.1371/journal.pone.0114191(SCI, IF3.733)
- Giuseppe S.\*, Christos L., **Zhang H.Y.\***. Valeria P., Manuela Di N. , Maria P., Marco S. mini. 2014. Male-specific phosphorylated SR proteins in adult flies of the Mediterranean Fruitfly *Ceratitis capitata*. *BMC Genetics*. 15(Suppl 2):S6 (SCI, IF2.356)
- Yao H. F., Zheng W. W., Tariq K., **Zhang H.Y.\***. 2014. Functional and Numerical Responses of Three Species of Predatory Phytoseiid Mites (Acari: Phytoseiidae) to Thrips *flavidulus* (Thysanoptera: Thripidae) *Neotrop Entomol*. 43:437–445(SCI, IF0.85)
- Wang A L, Yao Z C, Zheng W W, **Zhang H.Y.\***. 2014. Bacterial Communities in the Gut and Reproductive Organs of *Bactrocera minax* (Diptera: Tephritidae) Based on 454 Pyrosequencing. *PLoS ONE* 9(9): e106988. doi:10.1371/journal.pone.0106988 (SCI, IF3.733)
- Wang H.X., Jin L. Peng T., **Zhang H.Y.\***, Chen Q.L. and Hua Y.J. 2014. Identification of cultivable bacteria in the intestinal tract of *Bactrocera dorsalis* from three different populations and determination of their attractive potential. *Pest Manag Sci*, 70:80 - 87. (SCI, IF2.594) doi 10.1002/ps.3528
- Sheng P., Xu J., Saccone G., Li K.B., **Zhang H.Y.\***, 2014. Discovery and characterization of endo-xylanase and  $\beta$ -xylosidase from a highly xylanolytic bacterium in the hindgut of *Holotrichia parallela* larvae. *J Mol Catal B-Enzym*. 105, 33-40 (SCI, IF2.823)
- Zhang B., Zheng W.W., Zhao W.J., Xu X.N., Liu J. & **Zhang H.Y.\***. 2013. Intraguild predation among the predatory mites *Amblyseius eharai*, *Amblyseius cucumeris* and *Amblyseius barkeri*, *Biocontrol Science and Technology*, 24:1, 103-115, DOI:10.1080/09583157.2013.849658
- Chen H. L., **Zhang H.Y.\***, Throne J.E. and Zhu K.Y.. 2014. Transcript analysis and expression profiling of three heat shock protein 70 genes in the ectoparasitoid *Habrobracon hebetor* (Hymenoptera: Braconidae). *Insect Science*. 21, 415–428, doi:10.1111/1744-7917.12032(SCI, IF1.786)
- Zhao W. J., Zheng W. W. \*, Zhang B., Yu G. L., Hu S. Q., Xuenong Xu X. N., **Zhang H.Y.\***, 2014. Effect of different ground cover management on spider mites (Acari: Tetranychidae) and their phytoseiid (Acari: Phytoseiidae) enemies in citrus orchards. *Biocontrol Science and Technology*. 24, 6:705–709(SCI, IF0.712)
- Huang S.W., **Zhang H.Y.\***. 2013. Impact of Environmental Heterogeneity and Life stage on the Hindgut Microbiota of *Holotrichia parallela* larvae ( Coleoptera: Scarabaeidae). *PLoS ONE* 8(2): e57169. doi:10.1371/journal.pone.0057169(SCI, IF4.092)

- Wang P.P., Song X.H., **Zhang H.Y.\***. 2013. Isolation and characterization of *Aschersonia placenta* from citrus orchards and its pathogenicity towards *Dialeurodes citri*(Ashmead). *Journal of Invertebrate Pathology*. 112:122–128(SCI, IF2.064)
- Chen H.L., **Zhang H.Y.\***, Zhu k.y., Throne J.\*. 2013. Performance of diapausing parasitoid wasps, *Habrobracon hebetor*, after cold storage. *Biological Control*. 64: 86–194(SCI, IF2.003)
- Huang, S.W., Sheng, P., **Zhang, H.Y.\***, 2012. Isolation and identification of cellulolytic bacteria from the gut of *Holotrichia parallela* larvae (Coleoptera: Scarabaeidae). *International Journal of Molecular Sciences*, 13: 2563-2577 (SCI, IF 2.279).
- Shi Z. H., Wang L. L., **Zhang H. Y.\***, 2012. Low Diversity Bacterial Community and the Trapping Activity of Metabolites from Cultivable Bacteria Species in the Female Reproductive System of the Oriental Fruit Fly, *Bactrocera dorsalis* Hendel (Diptera: Tephritidae). *International Journal of Molecular Sciences*, 13, 6266-6278(SCI, IF 2.279).
- Zheng, W.W., Peng, T., He W., **Zhang H.Y.\***, 2012. High-Throughput Sequencing to Reveal Genes Involved in Reproduction and Development in *Bactrocera dorsalis* (Diptera: Tephritidae). *PLoS ONE* 7(5): e36463. doi:10.1371/journal.pone.0036463(SCI, IF 4.411)
- Zheng W. W., Zhu Ch P., Peng T., **Zhang H.Y.\***.2012. Odorant receptor co-receptor *Orcois* upregulated by methyl eugenol in male *Bactrocera dorsalis* (Diptera: Tephritidae). *Journal of Insect Physiology* 58:1122–1127(SCI, IF2.236)
- Chen, H.L., **Zhang H.Y.\***, Zhu, K.Y. and Throne J.E.. 2012. Induction of reproductive diapause in *Habrobracon hebetor* (Hymenoptera: Braconidae) when reared at different photoperiods at low temperatures. *Environmental Entomology*, 41: 697-705. (SCI, IF1.561)
- Boyer S., **Zhang H.Y.\*** and Lempérière G. 2012 A review of control methods and resistance mechanisms in stored-product insects. *Bulletin of Entomological Research*, 102 : 213-229 (SCI, IF 1.909)
- Sheng P.,Huang S.W.,Wang Q.,Wang A.L., **Zhang H.Y.\***, 2012. Isolation, screening and optimization of the fermentation conditions of high cellulolytic bacteria from the hindgut of *Holotrichia parallela* larvae (Coleoptera: Scarabaeidae). *Applied Biochemistry and Biotechnology*, 167(2):270-284(SCI, IF1.879)
- Zheng, W.W., Zhao, Y.S., **Zhang, H.Y.\***, 2012. Morphology and ultrastructure of the hindgut fermentation chamber of a melolonthine beetle *Holotrichia parallela* (Coleoptera: Scarabaeidae) during larval development. *Micron*, 43:638–642 (SCI, IF 1.649).
- Guo X.J., Rao Q., Zhang F., Luo Ch., **Zhang H.Y.\***, and Gao X.W. 2012. Diversity and Genetic Differentiation of the Whitefly *Bemisia tabaci* Species Complex in China Based on mtCOI and cDNA-AFLP Analysis. *Journal of Integrative Agriculture*, 11(2): 206-214.
- Rao Q., Xu Y.H., Luo C., **Zhang H.Y.\***, Christopher M J., Greg J D., Kevin G. , Ian D.,2012. Characterisation of Neonicotinoid and Pymetrozine Resistance in Strains of *Bemisia tabaci* (Hemiptera: Aleyrodidae) from China.*Journal of Integrative Agriculture* , 11 (2): 321-326.
- Li X.X., Zhang M.Y., **Zhang H.Y.\***, 2011, RNA interference of four genes in adult *Bactrocera dorsalis* by feeding their dsRNAs. *PLoS One*, 6(3):e17788 , doi: 10.1371/journal.pone.0017788 (SCI, IF 4.351)
- Wang H.X., Jin L., **Zhang H.Y.\***, 2011, Comparison of the diversity of the bacterial communities in the intestinal tract of adult *Bactrocera dorsalis* from three different populations. *Journal of Applied Microbiology*, 110(6): 1390-1401 (SCI, IF 2.098)
- Chen H. L., Opit G. P., Sheng P. and **Zhang H.Y.\***.2011. Maternal and Progeny Quality of *Habrobracon hebetor* Say (Hymenoptera: Braconidae) After Cold Storage. *Biological*

- Control, 58, 255-261. (SCI, IF2.164)
- Song X.H., Ro A., Wang P.P., **Zhang H.Y.\***, 2011, Genetic Diversity among different Geographical Populations of *Rhyzopertha dominica* (Coleoptera: Bostrichidae) in China as revealed by AFLP, Entomol Gener, 33(1/2): 49-62(SCI)
- Rao Q., Luo C., **Zhang H.Y.\***, Guo X. and Devine G. J., 2011. Distribution and dynamics of *Bemisia tabaci* invasive biotypes in central China. Bulletin of Entomological Research, 101, 81-88 (SCI, IF 1.580)
- Chen H.L., Akinkulolere R.O. and **Zhang H.Y.\***, Fumigant activity of plant essential oil from *Armoracia rusticana* (L.) on *Plodia interpunctella* (Lepidoptera: Pyralidae) and *Sitophilus zeamais* (Coleoptera: Curculionidae), African Journal of Biotechnology, 2011, 10(7), 1200-1205 (SCI, IF 0.565)
- Huang S.W., **Zhang H.Y.\***, Marshall S. and Jackson T.A., The scarab gut: A potential bioreactor for bio-fuel production. Insect Science, 2010, 17(3): 175-183(SCI, IF 1.118)
- Akinkulolere R.O., Boyer S., Chen H.L., **Zhang H.Y.\***, Parasitism and host-location preference in *Habrobracon hebetor* (Hymenoptera: Braconidae): Role of refuge, choice, and host instar. Journal of Economic Entomology, 2009, 102(2): 610-615(SCI, IF 1.296)
- Akinkulolere R.O., Rao Q., Wang X.Q., **Zhang H.Y.\***, Effect of *Bacillus thuringiensis* on *Habrobracon hebetor* during combined biological control of *Plodia interpunctella*. Insect Science, 2009, 16(5): 409-416 (SCI, IF 1.118)
- Yang X.L., Akinkulolere R.O., **Zhang H.Y.\***, Screening of highly toxic *Bacillus thuringiensis* and its effects on the growth and development of *Spodoptera exigua* (Lepidoptera: Noctuidae). Entomologia Generalis, 2008, 31(1): 95 -104(SCI, IF 0.618)
- Zhang H.Y.\***, and Jackson T. , Microbial diversity in the alimentary tract of *Costelytra zealandica* (Coleoptera: Scarabaeidae) larvae by PCR-DGGE of 16S rRNA gene fragments. Journal of Applied microbiology, 2008,105(5): 1277-1285(SCI, IF 2.098)
- Akinkulolere R.O., **Zhang H.Y.\***, Rao Q., Response of *Plodia interpunctella* (Lepidoptera: Pyralidae) to Treatments with different Strains of *Bacillus thuringiensis*. Entomologia Generalis , 2007, 30 (4): 263-271(SCI, IF 0.618)
- Zhang H.Y.\***, and Brune A., Characterization and partial purification of proteinases from the highly alkaline midgut of the humivorous larvae of *Pachnoda ephippiata* (Coleoptera: Scarabaeidae). Soil Biology & Biochemistry, 2004, 36: 435–442(SCI, IF 2.978)
- Zhang H.Y.\***, Yang C.J., Huang J.Y. Lü L., Susceptibility of field populations of *Anopheles sinensis* Wiedemann (Diptera: Culicidae) to *Bacillus thuringiensis* subsp. israelensis. Biocontrol Science and Technology, 2004,14(3): 321-325(SCI, IF 0.684)
- Zhang H.Y.\***, Zeng X.H., Yu Z.N. and Deng W.X., Characterization and toxicity of *Bacillus thuringiensis* isolates from warehouses to *Spodoptera exigua* (Lep., Noctuidae). Journal of Applied Entomology, 2001, 125: 211-214(SCI, IF 1.436)
- Zhang H.Y.\***, Yu Z.N., Deng W.X., Composition and Ecological Distribution of Cry Proteins and their Genotypes of *Bacillus thuringiensis* Isolates from Warehouses in China. Journal of Invertebrate Pathology, 2000, 76(3): 191-197(SCI, IF 1.807).

#### **Books edited**

- Zhang H.Y.** (Chief editor) (2009) Urban Entomology. Beijing: Chinese Agricultural Press.
- Yang C.J. and **Zhang H.Y.** (Chief editor) (2009) Plant Pest Quarantine. Beijing: Science Press.
- Zhang H.Y.** and Li H.Y. (Chief editor) (2009) Photographic Guide to Key Control Techniques of Citrus Pests and Diseases. Beijing: Chinese Agricultural Press.

## Additional Information

### Honour and prize

- (1). An advisor of *International Foundation for Science* in Sweden.
- (2). Editorial Board Member of *Asian Journal of Plant Sciences*
- (3). One of conveners of *8th International Conference on Controlled Atmosphere and Fumigation in Stored Products* in 2008 in Chengdu
- (4). One of conveners of *The 11th International Citrus Congress* in 2008 in Wuhan
- (5). A member of organizing committee of *Proceedings of International Forum for Sustainable Management of Disease Vectors*, Beijing, 2006.
- (6). One of conveners of *XVth International Plant Protection Congress* in 2004 in Beijing
- (7). One of conveners of *7th International Working Conference on Stored-product protection (IWCSPP)* and member of editorial board of the proceedings of 7<sup>th</sup> IWCSPP in 1998 in Beijing..
- (8). The excellent prize for teaching in Huazhong Agricultural University in 1992; the excellent prize of science and technology in Hubei province in 1995; the first prize of natural science on excellent thesis in Hubei province in 1994.

### Research Projects processing now

Fitness Improvement of Mass-Reared Sterile Males of *Bactrocera dorsalis* and *Bactrocera minax* Through their Symbionts unded by IAEA Co-ordinated Research Contract No. 18805/R0 , 2015-2016, Chief Scientific Investigator.

Functions of the IMD negative regulative genes in regulate intestinal microbiota homeostasis of *Bactrocera dorsalis* funded by Natural Science Foundation of China (NO. 31272378) from 2015 to 2019. A principal investigator.

Metagenomic and cellulolytic function of intestinal microbiota of the *Holotrichia parallela* funded by Natural Science Foundation of China (NO. 31272378) from 2013 to 2016. A principal investigator.

The citrus Pests IPM funded by The earmarked fund for China Agricultural Research System (CARS-27) from 2007- , A principal investigator.