



张进

职 称：教授，博士生导师

邮 箱：jinzhang001@njau.edu.cn

联系电话：13851976925

办公地址：第三实验楼二期 224

研究方向：

昆虫化学生态学，主要包括：

- (1) 昆虫-微生物-植物的互作；
- (2) 人类生活对昆虫化学感受的影响；
- (3) 昆虫化学感受分子及神经机制。

教育经历：

2010.09 – 2015.06 南京农业大学植物保护学院，农学博士

2011.06 – 2015.04 中国农业科学院植物保护研究所，联合培养

2006.09 – 2010.06 东北林业大学林学院，农学学士

工作经历：

2022.02 – 今 南京农业大学植物保护学院，教授，博导

2017.04 – 2021.12 德国马普化学生态研究所，博士后

2016.01 – 2016.12 加州大学河滨分校，博士后

承担课题：

农业大学高层次人才引进科研启动项目，2022-2027，在研，主持

国家自然科学基金，重点项目，31230062，2013 - 17，主要参加人

国家自然科学基金，青年科学基金项目，31201578，2013 - 15，主要参加人

南京江苏省大学生创新研究项目，2014-15，主持人

国家自然科学基金，自由申请项目，2011 - 13，主要参加人

代表性科研成果：

1. Ian W. Keeseey[¥], **Jin Zhang**[¥], Ana Depetris-Chauvin, George F. Obiero, Abhishek Gupta, Nitin Gupta, Heiko Vogel, Markus Knaden, Bill S. Hansson. (2022): Functional olfactory evolution in *Drosophila suzukii* and the subgenus *Sophophora*. *iScience*. (Accepted for publication) (**¥Co-First Authors with Equal contributions**)
2. **Jin Zhang**, Syed Ali Komail Raza, Zhiqiang Wei, Ian W. Keeseey, Anna Parker, Felix Feistel, Jingyuan Chen, Sina Cassau, Richard A. Fandino, Ewald Grosse-Wilde, Shuanglin Dong, Joel Kingsolver, Jonathan Gershenzon, Markus Knaden, Bill S. Hansson. (2022): Competing beetles attract egg-laying in a hawkmoth. *Current Biology*. 32, 861–869.
3. Xiao-Long Liu[†], **Jin Zhang**[†], Qi Yan, Chun-Li Miao, Wei-Kang Han, Wen Hou, Ke Yang, Bill S. Hansson, Ying-Chuan Peng, Jin-Meng Guo, Hao Xu, Chen-Zhu Wang, Shuang-Lin Dong, Markus Knaden. (2020): The molecular basis of host selection in a Crucifer-specialized moth. *Current Biology*; 30(22), 4476-4482. (**†Co-First Authors with Equal contributions**).
4. **Jin Zhang**, Sonja Bisch-Knaden, Richard A Fandino, Shuwei Yan, George F. Obiero, Ewald Grosse-Wilde, Bill S Hansson, Markus Knaden. (2019): The olfactory coreceptor IR8a governs larval feces-mediated competition avoidance in a hawkmoth. *Proceedings of the National Academy of Sciences*; 116 (43). 21828-21833.
5. **Jin Zhang**[†], Bing Wang[†], Shuanglin Dong, Depan Cao, William B. Walker, Yang Liu, Guirong Wang. (2015): Antennal transcriptome analysis and comparison of chemosensory gene families in two closely related noctuidae moths, *Helicoverpa armigera* and *H. assulta*. *PLoS ONE* 10(2): e0117054. (**†Co-First Authors with Equal contributions**).
6. **Jin Zhang**, Shuwei Yan, Yang Liu, Emmanuelle Jacquin-Joly, Shuanglin Dong, Guirong Wang. (2015): Identification and functional characterization of sex

pheromone receptors in the common cutworm (*Spodoptera litura*). *Chemical Senses*, 2015 Jan; 40(1):7-16.

7. **Jin Zhang**, Yang Liu, William B. Walker, Shuanglin Dong, Guirong Wang. (2015): Identification and localization of two sensory neuron membrane proteins from *Spodoptera litura* (Lepidoptera, Noctuidae). *Insect science*, 22 (3), pp.399-408.
8. Yanan Zhang#, **Jin Zhang**#, Shuwei Yan, Hetan Chang, Yang Liu, Guirong Wang, Shuanglin Dong. (2014): Functional characterization of sex pheromone receptors in the purple stem borer, *Sesamia inferens* (Walker). *Insect Molecular Biology*, 23(5):611-20. (#Co-First Authors with Equal contributions)
9. **Jin Zhang**, Chengcheng Liu, Shuwei Yan, Yang Liu, Mengbo Guo, Shuanglin Dong, Guirong Wang. (2013): An odorant receptor from the common cutworm (*Spodoptera litura*) exclusively tuned to the important plant volatile cis-3-Hexenyl acetate. *Insect Molecular Biology*, 22(4):424-32.
10. **Jin Zhang**, William B. Walker, Guirong Wang. (2015): Pheromone reception in moths: from molecules to behaviors. *Progress in Molecular Biology and Translational Science*; 130:109-28.

社会服务工作:

1. 担任国际化学生态学会会员及其社交媒体信息分享小组成员;
2. 2019-2021 年受邀作为共同专题编辑, 完成《Frontiers in Physiology》二期专题 “Insect Olfactory Proteins (From Gene Identification to Functional Characterization), Volume II”, 发表论文 19 篇;
3. 2021-至今 受邀作为共同专题编辑, 负责《Insects》杂志专题 “Chemosensory Genes in Insects” ;
4. 为 Frontiers in Physiology, Frontiers in Genetics, Frontiers in Insect science, Frontiers in Ecology and Evolution 等杂志审稿。

荣誉奖励:

洪堡学者 2017.02

Agreenskills postdoctoral fellowship 2015.09 (declined)

学术会议报告 (主报告人) :

Oral Presentations

1. **Jin Zhang** (2019). The olfactory co-receptor IR8a governs larval-feces mediated competition avoidance in a hawkmoth. Talk presented at 16th European Symposium for Insect Taste and Olfaction ESITO, 2019, Villasimius, Italy
2. **Jin Zhang** (2019). *Manduca sexta* senses repellent odors in feces from larvae via the dedicated Ionotropic receptor IR8a. Talk presented at Seminar, Nanjing Agricultural University, Nanjing, China (invited speaker)
3. **Jin Zhang** (2018). Fecal odors deter oviposition in *Manduca sexta*. Talk presented at Institute Symposium, MPI for chemical ecology, Jena, Germany
4. **Jin Zhang** (2017). Chemosensation in the ovipositor of *Manduca sexta*. Talk presented at 15th European Symposium for Insect Taste and Olfaction ESITO, Villasimius, Italy
5. **Jin Zhang** (2014). National conference on the 10th chemical ecology, Nanchang, China
6. **Jin Zhang** (2013). The 4th International Conference of Insect Physiology, Biochemistry and Molecular Biology, Nanjing, China

Poster Presentations

1. **Jin Zhang** (2018). Fecal odors deter oviposition in *Manduca sexta*. Poster presented at 34th ISCE Meeting, International Society of Chemical Ecology, Budapest, Hungary
2. **Jin Zhang** (2018). *Manduca sexta* caterpillar frass is repellent for female oviposition. Poster presented at Gordon Research Conference - Plant Volatiles: The Role of Plant Volatiles in Communication, Gordon Research Conferences, Barga, Italy
3. **Jin Zhang** (2018). *Manduca sexta* caterpillar frass is repellent for female oviposition. Poster presented at Gordon Research Seminar - Plant Volatiles: Plant Volatiles Across Multiple Scales: From Molecular Mechanisms to Ecological Functions, Gordon Research Conferences, Barga, Italy

语言情况:

英语 (流利) 、 德语 (A2)