



学院首页

学院概况

党建园地

师资队伍

教学教务

科学研究

学科建设

下载中心

师资队伍



师资概况



教授风采



教授风采

当前位置: 首页 > 师资队伍 > 教授风采

朱道弘

发表时间: 2015-12-02 17:46:00 点击次数: 1571



朱道弘 教授、博导

昆虫行为与进化生态学, 动物学

Email: daohongzhu@yeah.net; dhzhu@csuft.edu.cn

学习与工作经历

1984年本科毕业于华中农业大学, 获学士学位。1984年7月起于中南林业科技大学从事相关教学、科研工作。1994-1995年日本弘前大学访问学者, 1995-1998年日本岩手大学博士研究生, 获博士学位。2000-2002年日本农业生物资源研究所博士后[日本科学技术振兴事业团特聘研究员(STA)]。

学术任职及奖励

教授, 博士生导师。曾任中南林业科技大学图书馆馆长、生命科学与技术学院院长。现任中南林业科技大学副校长, 湖南省昆虫学会副理事长, 湖南省动物学会副理事长。

科研、教学及学术活动

主要从事昆虫行为与进化生态学、昆虫生理学、森林昆虫学的教学与研究。研究方向为: 昆虫多型现象的调控机制与进化; 昆虫行为及其生态/进化效应; 昆虫生活史策略及其进化; 共生微生物对昆虫繁殖方式的调控; 森林有害生物管理。主持的代表性课题: 长颚斗蟋的翅二型: 地理变异、进化意义及内分泌控制机理(国家自然科学基金); 共生细菌 *Wolbachia* 在瘿蜂科昆虫中的PCR检测及其对宿主繁殖模式的调控(国家自然科学基金); 丽斗蟋雌性短翅化的适应意义及翅多型现象Roff假说的验证(国家自然科学基金); *Wolbachia* 在叶螨中的感染、对宿主“生殖操作”及其机理的研究(国家自然科学基金); 东亚地区飞蝗种群的演变规律、大发生机理及其控制对策(科技部国际合作与交流项目); 瘿蜂亚科种类和寄主的多样性及其细胞质共生菌 *Wolbachia* 的PCR检测(国家林业局重点项目); 飞蝗生活史季节调控机理及群居型体色的生态意义(教育部高等学校博士学科点专项科研基金); 我国生物多样性保护现状与对策的研究(国家林业局软科学课题)。指导培养博士和硕士研究生30余名。

代表性论著 (*为通讯作者)

- Zeng Y, **Zhu DH***, Zhao LQ (2014) Critical flight time for switch from flight to reproduction in wing dimorphic cricket species, *Velarifictorus asperses*. *Evolutionary Biology*, 41: 397-403. (SCI收录)
- Wu HJ, **Zhu DH***, Zeng Y, Zhao LQ, Sun GX (2014) Brachypterizing effect of high density and Its relationship with body injury in cricket species *Velarifictorus micado* (Orthoptera: Gryllidae). *Ann. Entomol. Soc. Am.*, 107(1): 113-118. (SCI收录)
- Zeng Y, **Zhu DH*** (2014) Latitudinal variation of body size, development time, and wing dimorphism in cricket *Velarifictorus micado* Saussure. *Ann. Entomol. Soc. Am.*, 107(6): 1066-1071. (SCI收录)
- Zhao LQ, **Zhu DH*** (2014) Effects of environmental factors and appendage injury on the wing variation of *Velarifictorus ornatus* (Orthoptera: Gryllidae). *Journal of Insect Science*, 14(117). (SCI收录)
- Zhu DH***, Cui SS, Fan YS, Liu Z (2013) Adaptive strategies of overwintering adults: Reproductive diapause and mating behavior in a grasshopper, *Stenocatantops splendens* (Orthoptera: Catantopidae). *Insect Science*, 20(2): 235-244. (SCI收录)

- Zhu DH***, Zhao Q, Tanaka S (2013) Influence of Male Presence on Reproductive Parameters of *Locusta migratoria* (Orthoptera: Acrididae) Females. *Ann. Entomol. Soc. Am.*, 106(1): 66–71. (SCI收录)
- Yang XH, **Zhu DH***, Liu Z, Zhao L, Su CY (2013) High Levels of Multiple Infections, Recombination and Horizontal Transmission of *Wolbachia* in the *Andricus mukaigawae* (Hymenoptera; Cynipidae) Communities. *PLoS ONE*, 8(11): e78970. (SCI收录)
- Zhao LQ, **Zhu DH*** (2013) Effects of application of juvenile hormone and precocene on physiological trade-offs between flight muscle and reproductive development in the wing-dimorphic cricket *Velarifictorus ornatus* (Orthoptera: Gryllidae). *Acta Entomologica Sinica*, 56(6): 622–629.
- Zhu DH***, Zhu J, Peng ZP, Wan FH (2012) Effects of photoperiod and temperature on reproductive diapause in *Ophraella communa* (Coleoptera: Chrysomelidae), a potential biocontrol agent against *Ambrosia artemisiifolia*. *Insect Science*, 19(3): 286–294. (SCI收录)
- Zeng Y, **Zhu DH*** (2012) Trade-off between flight capability and reproduction in male *Velarifictorus asperses* crickets. *Ecological Entomology*, 37(3): 244–251. (SCI收录)
- Liu Z, Yang XH, **Zhu DH** (2012) A New Species of *Saphonecrus* (Hymenoptera, Cynipoidea) Associated with Plant Galls on *Castanopsis* (Fagaceae) in China. *Ann. Entomol. Soc. Am.*, 105(4): 555–561. (SCI收录)
- Zhao LQ, **Zhu DH*** (2011) Effect of mating status on the fecundity of a cricket, *Teleogryllus emma*. *Insect Science*, 18, 320–324. (SCI收录)
- Zhao LQ, **Zhu DH***, Zeng Y (2010) Physiological trade-offs between flight muscle and reproductive development in the wing-dimorphic cricket *Velarifictorus ornatus*. *Entomologia Experimentalis et Applicata*, 135: 288–294. (SCI收录)
- Tokuda M, Tanaka S, **Zhu DH** (2010) Multiple origins of *Locusta migratoria* (Orthoptera: Acrididae) in the Japanese Archipelago and presence of two major clades in the world: evidence from a molecular approach. *Biological Journal of the Linnean Society*, 99: 570–581. (SCI收录)
- Zhao LQ, **Zhu DH***, Liu Z (2010) Geographical variation in diapause intensity and threshold temperature in the eggs of a cricket, *Teleogryllus emma* (Orthoptera: Gryllidae). *Entomological News*, 121: 236–242. (SCI收录)
- Zhu DH***, Yang YP (2009) Reversible change in embryonic diapause intensity by mild temperature in the Chinese rice grasshopper, *Oxya chinensis* Thunberg (Orthoptera: Catantopidae). *Entomologia Experimentalis et Applicata*, 133: 1–8. (SCI收录)
- Tanaka S, **Zhu DH**. (2008) Geographic variation of embryonic diapause and life cycles in the migratory locust, *Locusta migratoria*, in China. *Entomological Science*, 11: 327–339. (SCI收录)
- Zhu DH***, He YY, et al. (2007) Negative evidence of parthenogenesis induction by *Wolbachia* in a gallwasp species, *Dryoconus kuriphilus* (Hymenoptera: Cynipidae). *Entomologia Experimentalis et Applicata*, 124: 279–284. (SCI收录)
- Zhu DH***, Tanaka S (2007) Different photoperiodic responses in two geographic populations of a subtropical cockroach, *Periplaneta japonica* Asahina. *Acta Ecologica Sinica*, 27: 3687–3693.
- Tanaka S, **Zhu DH** (2005) Outbreaks of the migratory locust, *Locusta migratoria* (Orthoptera: Acrididae) and control in China. *Applied Entomology and Zoology*, 40: 257–263. (SCI收录)
- Zhu DH**, Tanaka S (2004) Photoperiod and temperature affect the life cycle of a subtropical cockroach, *Opisoplatia orientalis*: seasonal pattern shaped by winter mortality. *Physiological Entomology*, 29: 16–25. (SCI收录)
- Zhu DH**, Tanaka S (2004) Summer diapause and nymphal growth in a subtropical cockroach: response to changing photoperiod. *Physiological Entomology*, 29: 78–83. (SCI收录)
- Tanaka S, **Zhu DH** (2003) Phase-related difference in mating strategy of a locust. *Ann. Entomol. Soc. Am.*, 96: 498–502. (SCI收录)
- Tanaka S, **Zhu DH** (2003) Presence of three diapauses in a subtropical cockroach: control mechanisms and adaptive significance. *Physiological Entomology*, 28: 323–330. (SCI收录)
- Zhu DH**, Tanaka S (2002) Prolonged precopulatory mounting increases the length of copulation and sperm precedence in *Locusta migratoria* (Orthoptera: Acrididae). *Ann. Entomol. Soc. Am.*, 95: 370–373. (SCI收录)
- Tanaka S, **Zhu DH**, Simpson SJ, Loof AD and Michael B. (2002) The dark-color inducing neuropeptide, [His7]-c orazonin, causes a shift in morphometric characteristics towards the gregarious phase in isolated-reared (solitary) *Locusta migratoria*. *Journal Insect Physiology*, 48: 1065–1074. (SCI收录)

- Hoste B, Simpson SJ, Tanaka S, **Zhu DH**, Loof AD, Breuer, M (2002) Effects of [His]-coraconin on the phase state of isolated-reared (solitarious) desert locusts, *Schistocerca gregaria*. *Journal Insect Physiology*, 48: 981-9907. (SCI收录)
- Zhu DH**, Ando Y (1998) Parthenogenesis in three species of genus, *Oxya*. *Jpn. J. Appl. Entomol. Zool.*, 42: 65-69. (SCI收录)
- [吴红军](#), 赵吕权, 曾杨, **朱道弘*** (2014) 食物胁迫对翅二型丽斗蟋飞行肌和繁殖发育的影响. *生态学报*, 34(11): 2963-2970.
- 工娟, **朱道弘***, 曾杨(2014) 遗传和环境因素对曲脉姬蟋*Modicogryllus confirmatus* Walker 亚热带种群翅型分化的影响. *生态学报*, 34(22): 6606-6612.
- 朱道弘***, 陈艳艳, 赵琴 (2013) 黄脊雷鳷越冬卵的滞育发育特性. *生态学报*, 33(10): 3039-3046.
- 赵玲, **朱道弘***, 刘志伟, 杨筱慧 (2013) 四种北美瘿蜂体内*Wolbachia*感染的PCR检测及感染株系的wsp基因序列分析. *应用昆虫学报*, 50(4): 998-1005.
- 赵吕权, **朱道弘***, 曾杨 (2012) 丽斗蟋翅二型雌虫飞行肌和卵巢发育间的资源分配差异. *昆虫学报*, 55: 1037-1045.
- 杨筱慧, **朱道弘***, 刘志伟, 赵玲 (2012) 湖南三地区麦氏安瘿蜂体内*Wolbachia*的感染及其wsp基因序列分析. *昆虫学报*, 55(2): 247-254
- 曾杨, **朱道弘***, 赵吕权 (2012) 长颚斗蟋长翅和短翅型雌成虫飞行肌发育与生殖的比较. *昆虫学报*, 55(2): 241-246.
- 陆鹏飞, **朱道弘***, 杨筱慧, Liu Z (2012) 基于mtDNACO I基因的系统分析表明栗属植物上隐藏瘿蜂种的存在. *应用昆虫学报*, 49(1): 161—167.
- 朱道弘***, 张超, 谭荣鹤 (2011) 中华稻蝗长沙种群的生活史及其卵滞育的进化意义. *生态学报*, 31(15): 4365-4371.
- 崔双双, **朱道弘** (2011) 中华稻蝗的胚胎发育及卵滞育发生的胚胎发育阶段. *应用昆虫学报*, 48(4): 845—853.
- 曾杨, **朱道弘***, 赵吕权 (2010) 环境因素对长颚斗蟋翅型分化的影响. *生态学报*, 30(21): 6001—6008.
- 赵琴, **朱道弘***, 阳艳萍, 谭荣鹤 (2009) 中华稻蝗5种群卵滞育强度及生活史模式的地理变异. *昆虫学报*, 52: 183-190.
- 朱道弘*** (2009) 昆虫翅型分化的调控及翅多型性的进化. *昆虫知识*, 46: 11-16.
- 赵吕权, **朱道弘*** (2008) 变化光周期对丽斗蟋若虫发育的影响. *生态学报*, 28: 253-259
- 谭荣鹤, **朱道弘***, 阳艳萍 (2008) 中华稻蝗不同地理种群杂交了代的滞育率. *昆虫知识*, 45: 394-397.
- 朱道弘***, 贺一原, 赵吕权 (2007) 栗瘿蜂体内*Wolbachia*的感染及其wsp基因序列分析. *林业科学*, 43: 133-137.
- 朱道弘*** (2007) 飞蝗抱对行为的进化意义及两型间相异的交配策略. *昆虫知识*, 44: 472-476.
- 朱道弘***, 刘世大 (2006) 光周期与温度对林地中德国小蠊生长发育与繁殖的影响. *生态学报*, 26: 2125-2132.
- 田中诚二, **朱道弘** (2004) 三つの休眠をもった亚热带昆虫の謎《休眠の昆虫学——季节适应の謎》. 日本: 东海大学出版社
- 朱道弘***, Ando Y (2004) 稻蝗属3近缘种间的生殖隔离机制及其进化意义. *昆虫学报*, 47: 67-72.
- 朱道弘*** (2004) 小翅稻蝗的精子竞争及交配行为的适应意义. *生态学报*, 24: 84-88.
- 朱道弘*** (2004) 飞蝗的多型现象: 体色多型及变型的内分泌控制机理. *动物学研究*, 25: 460-464.
- 朱道弘*** (2001) 小翅稻蝗 (*Oxya yezoensis* Shiraki) 翅多型现象浅释. *生态学报*, 21: 624-628.
- 朱道弘***, 安藤喜一, 城田安幸 (2001) 利用RAPD对稻蝗属昆虫亲缘关系的研究. *昆虫学报*, 44: 316-320.