

公示附件

上海市自然科学奖

项目名称：蚊虫与生物互作的机理及疟疾传播阻断策略研究

代表性论文目录

- 1) **Wang SB***, Dos-Santos A, Huang W, Liu K, Oshaghi M, Wei G, Agre P and Jacobs-Lorena M* (2017). Driving mosquito refractoriness to *Plasmodium falciparum* with engineered symbiotic bacteria. *Science* 357(6358):1399-1402. doi: 10.1126/science.aan5478.
- 2) Wang GD[#], Vega-Rodríguez J[#], Diabate A[#], Liu JL[#], Cui CL, Nignan C, Dong L, Li F, Ouedrago CO, Bandaogo AM, Sawadogo PS, Maiga H, Alves E Silva TL, Pascini TV, **Wang SB^{†*}**(Lead Contact), Jacobs-Lorena M^{†*} (2021). Clock genes and environmental cues coordinate *Anopheles* pheromone synthesis, swarming, and mating. *Science* 371(6527):411-415. doi: 10.1126/science.abd4359.
- 3) Lai YL[#], Cao X[#], Chen JJ, Wang LL, Wei G*, **Wang SB*** (2020). Coordinated regulation of infection-related morphogenesis by the KMT2-Cre1-Hyd4 regulatory pathway to facilitate fungal infection. *Science Advances* 25;6(13):eaaz1659. doi: 10.1126/sciadv.aaz1659.
- 4) Gao H[#], Bai L[#], Jiang YM, Huang W, Wang LL, Li SG, Zhu GD, Wang DQ, Huang ZH, Li XS, Cao J, Jiang LB, Jacobs-Lorena M, Zhan S, **Wang SB*** (2021). A natural symbiotic bacterium drives mosquito refractoriness to *Plasmodium* infection via secretion of an antimalarial lipase. *Nature Microbiology* 6: 806-817. doi: 10.1038/s41564-021-00899-8.
- 5) Cui CL[#], Wang Y[#], Liu JN, Zhao J, Sun PL, **Wang SB*** (2019). A fungal pathogen deploys a small RNA to attenuate mosquito immunity and facilitate infection. *Nature Communications* 10(1):4298. doi: 10.1038/s41467-019-12323-1.

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提名等级：一等奖