Guoding Zhu

“This work provided essential methodological cross-validation of expression results and highlighted genes differing in expression between resistant field and susceptible lab colonies, some of which were also present in comparisons of field resistant and susceptible populations.”

Guoding Zhu, Jiangsu Institute of Parasitic Diseases, China

**Molecular linkage mapping construction and quantitative trait loci analysis of pyrethroid resistance in Anopheles sinensis, the major vector in China**

**Guoding Zhu** is Assistant Professor in the Department of Malaria Control at the Jiangsu Institute of Parasitic Diseases. He is currently completing his PhD at Soochow University.

Guoding Zhu completed his APMEN Fellowship at the Liverpool School of Tropical Medicine under the supervision of Dr David Weetman.

During the three-month fellowship, Guoding Zhu undertook research activities focused on insecticide resistance mechanisms in *Anopheles sinensis*, the major malaria vector in China:

1. Candidate gene expression verification
2. The detection of G119S (resistance-linked mutation) in Ace-1
3. Cloning and sequencing of the most promising candidate gene, Cyp6Zs
4. Introduction to the 16 genomes annotation pipeline

“**This APMEN fellowship will help provide new tools to monitor insecticide resistance and help delay its emergence and spread in China.**”

China is implementing a national malaria elimination strategy to achieve elimination by 2020.