

Special Issue

Genomics and Biotechnology in Insects of Agricultural and Medical Importance

Message from the Guest Editors

Food shortages caused by pests and the spread of human diseases carried and transmitted by insects still present urgent problems worldwide. In the process of long-term evolution, insects have formed a complex ability to adapt to their host, which is reflected in the insect genome and mediates the stable and recurrent damage to crops and human. In recent decades, with advances in high-throughput sequencing technology and the further reduction in its cost, the genomes of many important agricultural and medical insects have been revealed, and detailed bioinformatics information has been analyzed. However, the mechanism underlying insects' adaptability to their hosts and population prosperity is still not fully understood. Furthermore, due to the lack of such information, biotechnology, including pest control and natural enemy utilization, is also difficult to design and effectively carry out. This Special Issue welcomes recent discoveries regarding genomics and biotechnology in characterizing insects of agricultural and medical importance.

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