

Research resources for development of malaria diagnostics, drugs and vaccines

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Technology description

This unique collection of high quality malaria research materials and reagents will help researchers understand malaria and develop new diagnostic and therapeutic approaches to tackling it.

The Challenge

Sequencing of malaria parasite genomes has enabled researchers to make rapid progress in understanding the basic biology of the parasite that causes the disease and to develop tools to elucidate the cellular mechanisms and immunological niches they exploit within the host. This work is accelerating the identification of suitable targets for vaccines and drug discovery. This scientific progress is being matched by collaborative funding initiatives and public private partnerships seeking to effectively translate these advances into new diagnostics therapeutics to tackle this deadly disease.

Technology

The University of Edinburgh has developed a unique collection of materials and reagents during forty years of malaria research. These valuable resources can be accessed to provide vaccine manufacturers, pharmaceutical companies or biotechnology companies with reagents and tools to understand the basic biology of the parasite, disease mechanisms, and new target for drug and vaccine discovery. Full details of available resources can be found on the European Malaria Reagent Repository website.

Exemplification Data

The high quality repository of malaria research reagents have been characterised and have appropriate quality control data to confirm performance.

Institution

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