Purpose
Malaria is a blood disease that kills nearly 1 million people each year. New medicines are needed since the parasites that cause disease are becoming increasingly resistant to current antimalarial therapies. The Center for Rare and Neglected Diseases at the University of Notre Dame forged a partnership with Eli Lilly and Company and with Medicines for Malaria Venture to find new antimalarial medicines.

Developing antimalarial drug leads
Our aim is to mirror the industrial discovery phase but at a smaller, academic scale. CRND is setting up a high throughput screening facility on-campus with a Hamilton StarLet Liquid Handling Station integrated with a high-content Acumen microscope. Scientists in CRND are working with Lilly scientists to ensure that biological tests meet the highest quality standards.

Center for Rare and Neglected Diseases
107 Galvin Life Sciences
Notre Dame, IN 46556
nd.edu/~crnd
Through a public-private partnership, we have screened a select Lilly chemical library to develop potential new medicines. Eli Lilly and Company has not only provided its library, which links chemical structures to biological information, it has also provided valuable drug discovery expertise. Medicines for Malaria Venture, a global pharmaceutical cooperative committed to the eradication of malaria, links academic scientists with resources to accelerate antimalarial drug discovery. 110,000 compounds were tested and narrowed down to 300 promising compounds. These compounds were put through confirmatory assays and narrowed down to 12 series of compound. With this added knowledge, we at CRND aim to identify the best candidates to put into pre-clinical development.