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Radboudumc, iMM Lisboa, PATH team up to test new malaria vaccine concept

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The Radboud University Medical Center (Radboudumc) in the Netherlands, the Instituto de Medicina Molecular Lisboa (iMM Lisboa) in Portugal, and PATH in Seattle, Washington announced today that they will collaborate to test a new approach to malaria vaccine development in humans for the first time.

The concept being tested is similar to that used by Edward Jenner to develop a vaccine against smallpox, the only disease affecting humans that has ever been eradicated. Jenner used cowpox--a similar but much less dangerous bovine version of the disease--to inoculate people against smallpox. In this clinical trial, based on data from earlier animal studies conducted by iMM Lisboa, the researchers will use a rodent version of the malaria-causing parasite (known as *Plasmodium berghei*) to determine if it can induce protection against infection by *Plasmodium falciparum*, the deadliest version of the parasite that infects humans.

In the study, a specific gene from *P. falciparum* known as the circumsporozoite protein (CS), will be inserted into the rodent parasite, resulting in a genetically modified version known as Pb(PfCS@UIS4). By inserting the gene for CS, the researchers hope to improve the potential of the modified rodent parasite to induce a protective response in healthy human volunteers.

"Bringing together the concept underlying the first vaccine ever developed, when Edward Jenner used the cowpox virus to immunize people against smallpox, with modern genetic manipulation tools, has resulted in a truly innovative approach to malaria vaccination," said Miguel Prudêncio, who is leading the research team at iMM Lisboa.

The trial will be conducted in two phases at Radboudumc in the Netherlands. In the first phase, 18 healthy adult volunteers will be recruited into three groups and exposed to varying, but carefully controlled number of bites from mosquitoes infected with the genetically modified *P. berghei* parasite. The researchers will closely monitor volunteers for signs of infection to make sure they are treated if they become ill. If all goes well in the Phase 1 study, volunteers from the highest dose group will enter the second phase of the

Instituto de Medicina Molecular
