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Fresh insight into parasite's reproductive strategy can prevent malaria spread

Published on March 17, 2011 at 12:48 AM · No Comments

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Fresh insight into the way the parasite that causes malaria reproduces could lead to new treatments to help curb the spread of the disease.

Scientists studying the disease have found that upsetting the parasite's reproductive strategy could prevent infections from transmitting from person to person.

Researchers at the Universities of Edinburgh and Oxford examined the parasite at a stage of its development in which it produces male and female forms in the bloodstream of its victims. These parasites then breed inside mosquitoes to produce fresh offspring that are transmitted when the insects feed on other people or animals.

The study showed that killing either the male or female forms was ineffective at stopping the spread of the disease, because the parasites replace those which are lost. However, the researchers were able to overcome this by damaging the male and female forms instead of killing them. This meant that although the parasites were able to reproduce, their offspring did not survive.

Malaria affects people and animals and is spread by the bite of the mosquito. The disease kills approximately one million people each year, mainly children in sub-Saharan Africa, and affects hundreds of millions more.

The study, published in PLoS Pathogens, was funded by the Portuguese Foundation for Science and Technology, the Royal Society, Balliol College Oxford and the Wellcome Trust.

Ricardo Ramiro, of the University of Edinburgh's School of Biological Sciences, who took part in the study, said: "Our studies show that inflicting just the right amount of damage could be the best way to interrupt the malaria parasite's development in the mosquito and help prevent the spread of disease."

Source: University of Edinburgh

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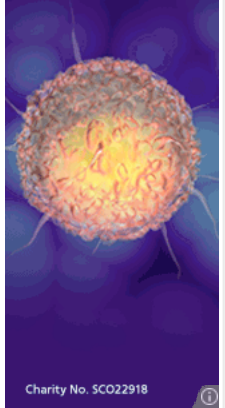
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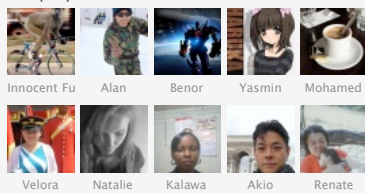
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