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## PREDICT IDENTIFIED BOMBALI EBOLAVIRUS IN BATS IN GUINEA, SUGGESTING WIDER DISTRIBUTION THAN PREVIOUSLY THOUGHT

PREDICT scientists discovered the sixth ebolavirus, Bombali virus, in insect-eating bats in Guinea in 2019. In addition to findings reported by CDC researchers, the PREDICT-Guinea team detected the virus in Angolan free-tailed bats roosting inside people's houses in Guéckedou and Kissidougou.

PREDICT also first discovered the Bombali virus in Angolan and little free-tailed bats in Sierra Leone. Bombali virus was also found in an Angolan free-tailed bat in Kenya in May 2018. Research teams used similar methods to detect the virus and, collectively, results suggest Bombali virus has a wide distribution. Scientists are trying to determine if Bombali virus has spilled over into humans or if it can cause disease in humans or animals. Results to date show that Bombali virus can infect human cells, and studies are ongoing to understand more about the risk it may pose.

The discovery of Bombali virus first in insect-eating bats in Sierra Leone, and now in Guinea, mark the first time that scientists discovered a new ebolavirus species in a host before detection in an infected human or sick animal.

## **SAMPLING & DETECTION**

The detection in Guinea was made by scientists at the UC Davis One Health Institute working with the government of Guinea, the Viral Hemorrhagic Fever Laboratory of the University of Gamal Abdel Nasser of Conakry, and Metabiota as part of the PREDICT Ebola Host Project, funded by the United States Agency for International Development.

"The detection of Bombali virus first in Sierra Leone, and also in Kenya and Guinea, suggested that ebolaviruses seem to be more widely distributed than previously thought," said Tracey Goldstein, PREDICT Pathogen detection lead and lab director of the One Health Institute. The PREDICT team began work in Guinea in 2016, sampling more than 4,500 animals and performing laboratory tests to look for both known and unknown ebolaviruses. Bombali virus was found in two bats belonging to the same species of insectivorous bat found roosting inside people's houses.

## WORKING WITH COMMUNITIES

Team members engaged with local communities throughout the project. The government of Guinea, researchers and international partners met with local communities to share results, conveyed what was known about the new virus, answered questions and addressed how to reduce risk of exposure and live safely with bats.

"Since the start of the project in Guinea, our team engaged over 5,000 community members — most of them school-aged children — through training and risk reduction communication," said Corina Monagin, PREDICT global lead for Guinea and a project scientist with the UC Davis One Health Institute. The researchers emphasized that people should not attempt to kill or eradicate bats in response to this finding. Bats play important ecological and agricultural roles through pollination and insect pest consumption. Killing or disturbing bats in their natural habitat can actually increase the risk of virus transmission, not halt it.

"PREDICT integrated the concept of One Health in Guinea by working with the Prefectural-level Government officers of Health, Agriculture and Environment," said Professor Alpha Oumar Camara, PREDICT/Guinea country coordinator. "PREDICT created the platform where these officers could work together and take ownership of the project themselves. This finding is an invitation for all three health sectors to continue to work together for a One Health approach to disease prevention and detection."