

## West African states in joint fight against root crop 'Ebola'

July 8 2018, by Christophe Koffi



Manioc, also called cassava, is a staple food across West Africa—the brown root vegetable is peeled, pulped and cooked, providing starchy ballast to a meal

Researchers from half a dozen states in West Africa have joined together in a battle against what one expert calls a root crop "Ebola"—a



viral disease that could wreck the region's staple food and condemn millions to hunger.

Their enemy: cassava brown streak disease (CBSD), a virus that strikes cassava, also called manioc, which in some of the region's countries is consumed by as many as 80 percent of the population.

The root-rotting disease was first discovered in Tanzania eight decades ago and is steadily moving westward.

"In outbreaks in central Africa, it has wiped out between 90 and 100 percent of cassava production—it's now heading towards West Africa," Justin Pita, in charge of the research programme, told AFP.

"It is a very big threat. It has to be taken very seriously."

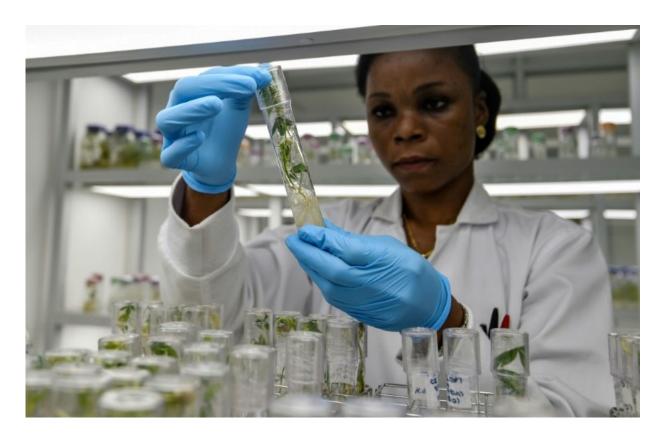
In Uganda, 3,000 people died of hunger in the 1990s after the dreaded disease showed up, striking small farmers in particular.

"You can call it the Ebola of cassava," said Pita.

The West African Virus Epidemiology (WAVE) project, a multi-million-dollar scheme funded by the Bill and Melinda Gates Foundation, aims to shield the region from the advancing peril.

Headquartered at Bingerville, on the edges of the Ivorian economic capital Abidjan, it gathers six countries from West Africa—Benin, Burkina Faso, Ghana, Ivory Coast, Nigeria and Togo—as well as the Democratic Republic of Congo.





Delicate work: A technician at the WAVE laboratory checks cultures of cassava

Much is already known about CBSD—the virus is generally believed to be propagated by an insect called the silverleaf whitefly, and also through cuttings taken from infected plants.

But there remain gaps in knowledge about West Africa's specific vulnerabilities to the disease.

They include understanding the susceptibility of local strains of cassava to the virus, and identifying points in the cassava trade that can help a localised outbreak of CBSD swell into an epidemic.

The scheme will also look at initiatives to help boost yield—a key



challenge in a region with surging population growth.

"The current average yield from cassava (in West Africa) is 10 to 12 tonnes per hectare (four to 4.8 tonnes per acre), but it has the potential to reach 40 tonnes a hectare," said Odile Attanasso, Benin's minister of higher education and scientific research.

"In Asia, they have yields of 22 tonnes per hectare."

## 'Attieke is our husband'

The WAVE project hopes to go beyond the lab and test fields, though.



Mania for manioc: No meal in Ivory Coast is complete without a side dish of



cassava semolina, called attieke

It also wants to harness the clout of community leaders and chiefs to spread CBSD awareness and promote better farming practices, such as confining and destroying crops in infested areas and banning transport of manioc cuttings.

"We kings and traditional chiefs are the interface between the population and the government," said Amon Tanoe, the ceremonial monarch of the coastal Grand-Bassam region in Ivory Coast.

Ivory Coast is a huge consumer of cassava—the starchy root is typically pulped and fermented and served in a side dish called attieke.

In Affery, a big cassava-growing region about 100 kilometres (60 miles) east of the economic capital Abidjan, makers of attieke said they were deeply worried about the threat of CBSD.

"Attieke is our husband," said Nathalie Monet Apo, head of the association of attieke producers, emphasising how the cassava dish is intertwined with Ivorian life.

"If the disease shows up, it would be dramatic for our families and our community."

"They have to find a cure for this <u>disease</u>—it's thanks to growing <u>cassava</u> that I am able to provide an education for my four children," said Blandine Yapo Sopi, eyeing a mound of harvested manioc that she hoped would bring in 450,000 CFA francs (nearly 700 euros, around \$800).

© 2018 AFP



Citation: West African states in joint fight against root crop 'Ebola' (2018, July 8) retrieved 5 May 2024 from <a href="https://phys.org/news/2018-07-west-african-states-joint-root.html">https://phys.org/news/2018-07-west-african-states-joint-root.html</a>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.