AFP | Gagilano Del Capo, Italy

orking in an arid Itallions of olive trees and could is doomed. threaten the entire Mediterranean basin.

Xylella fastidiosa, which has no known cure, has devastated ancient olive trees in Italy's southern Apulia region and be- diseased trees, but farmers must yond, causing 1.2 billion euros seek special permission and say the illness, we will contami- the entire Mediterranean basin, (\$1.3 billion) of damage to the the authorities are not always world's second olive oil exporter forthcoming.

groves, leaving thousands of struction, agronomist Pierfeder- the disease and so is immune," HEAM) in Bari, Apulia's capital,

and little hope for farmers.

ian field of crumbly ria -- carried by tiny sap-sucking Xylella arrived, and he is seeking soil, agronomists are insects known as spittlebugs -- an even better solution: immune behind it "a ghostly landscape". battling a rampant bacterium take hold, blocking the tree's varieties of olive tree. that has already infected mil- ability to absorb water, the plant

Bureaucracy and 'mafia'

spread of the disease, known as "olive tree leprosy", is to destroy least one immune variety.

Since 2013, the disease has ories that the mafia are killing this indigenous variety that we Center for Advanced Meditertorn through Apulia's olive trees to make way for hotel con- could cultivate, doesn't catch ranean Agronomic Studies (CI-

skeleton-like trees in its wake, agronomist and olive oil produc- 21 million trees, and is "spread-

ery for olive cultivation now lies Iran. Both Greece and Portugal dormant, he has built an impro- are bracing for its likely arrival. vised greenhouse, filled with among which he hopes to find at

transmit the illness so we have diet and vital to the economy. Doubtful of conspiracy the-scientific proof that this plant,

er Giovanni Melcarne has lost ing inexorably north at a speed Once Xylella fastidiosa bacte- 90 percent of his plants since of more than two kilometres (over a mile) a month", leaving

> The bug has also attacked or-While much of his machin- chards in Spain, France and now

Some 350 plants are vulnera-The only way to fight the dozens of small olive saplings, ble, including grape vines, citrus and almond trees.

> Scientists say there is a real "We will infect them with risk the disease will spread to nate them with the insects that where olive oil is a staple in the

This is why the International



Italy battles 'olive tree leprosy'

The only way to fight the spread of the disease, known as "olive tree leprosy", is to destroy diseased trees, but farmers must seek special permission and say the authorities are not always forthcoming

trees seemed not to become in- ling a batch of olive saplings fected, standing tall and green

the soft-spoken researcher rap- bly, and rapidly. idly identified two that appeared to suffer little from Xylella.

varieties are a starting point, not ease's progress is relentless. the finish line," said La Notte, who works for Italy's National Research Council.

"We hope, and we're work- 19th century. ing on it, to find a much bigger number of resistant varieties," said La Notte, teaching visiting most dangerous plant bacteria Egyptian agronomists in a re- worldwide, causing a variety of search field outside the ancient diseases, with huge economic town of Gallipoli.

Results so far are promising. Branches from resistant vaheel of Italy's boot.

Immunity?

Down the road in the heavily

But it will be at least anothin otherwise devastated fields. er year before the results are Africa. Suspecting that they may be known, given the slowness with resistant varieties that can devel- which the disease will become op the disease to a small degree visible after infection, something but continue to grow and flower, that has helped it spread invisi-

Drones using infrared cameras "The Leccino and Favolosa marginally earlier, but the dis-

Known in the United States as Pierce's disease, it devastated

The European Commission describes Xylella as "one of the gardens and the environment."

Since it arrived in the Apulia rieties that are grafted onto the region in 2013, probably from trunks of sick trees are growing Costa Rica according to the Italperfectly and even producing ian farmers' union Coldiretti, it. fruit, offering a glimmer of hope the microscopic pathogen has to the devastated region in the killed more than a million olive trees in Italy.

Mediterranean spread

Coldiretti said earlier this agriculture-dependent region, month that Xylella has infected

ico La Notte noticed that some Melcarne said, carefully label- has decided to train agronomists from around the region, including the Middle East and North

Relentless advance

"Today's technology lets us upload photos in real time, images of symptoms to help and also, through the project, we can mocan help detect the infection bilise the scientific resources of European countries which can go to other Mediterranean countries to help and to train these people," said CIHEAM agrono-California vineyards in the late mist Maroun El Moujabber, from Lebanon.

iterranean study at CIHEAM's Middle East and North Africa sunny campus, where an app has also been developed which impact for agriculture, public allows olive farmers or anyone else to input symptoms as they observe them, hopefully providing a better indicator of the disease's spread, and how to slow

> Arafat Hanani, a young Palestinian doctoral student and plant pathologist at the CIHEAM, says that while "nothing is impossible about science", Xylella is particularly problematic.



Budding and experienced The International Center for Advanced Mediterranean Agronomic Studies in Bari. experts from around the Med- Apulia's main city, trains agronomists from around the region, including the



Agronomist and olive oil producer Giovanni Melcarne

