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The Côte d’Ivoire lethal yellowing phytoplasma: towards improving diagnosis and disease management

Yaima Arocha Rosete¹, Hortense Atta Diallo², Jean L. Konan Konan³, Patrice Kouamé Assiri⁴, Séka Koutoaua⁵, Daniel Kra Kouamé⁶, Marie Noel Toualy⁷, Eric Kwadjo Koffi⁷, Marie-Pierre Daramcoum⁸, N’Djia Isabelle Beugré⁹, Winnie M. Ouattara³, Neuba Danho Fursy-Rodelec⁴, Ouattara Nouflou Doudjo⁴, Claude G. Kouadjo³, Allou Kouassi³, Ndède Yankey³, Sylvester Dery⁵, Amin Maharaj¹, Michael Saleh¹, Richard Summerbell¹¹, Nicoletta Contaldo¹², Samanta Paltrinieri¹², Assunta Bertaccini¹², James Scott⁷

¹Sporometrics, Toronto, Canada; ²Univ. Nnangui Abrogoua, Abidjan, Côte d’Ivoire; ³National Centre of Agronomic Research, Abidjan, Côte d’Ivoire; ⁴Swiss Center of Scientific Research, Abidjan, Côte d’Ivoire; ⁵CSIR-Oil Palm Research Institute, Ghana; ⁶Alma Mater Studiorum - University of Bologna, Italy; ⁷University of Toronto, Canada

The Côte d’Ivoire lethal yellowing (CILY) phytoplasma is rapidly spreading and severely affecting the livelihoods of smallholder farmers in Grand-Lahou. Symptoms resemble those associated with the Cape St. Paul Wilt Disease (CSPWD) in Ghana. Eight severely CILY-affected villages were surveyed for the CILY phytoplasma. Leaves, inflorescences and trunk borings were collected from coconut palms. Leaves were surveyed from wild plants growing in the farms. Total DNA was extracted and tested by nested PCR/RFLP and sequencing with primers targeting the 16S ribosomal RNA and the translocation protein (secA) phytoplasma genes.

The CILY phytoplasma was detected in 81.2% of the symptomatic trees from all the villages surveyed, and showed a westward spread. Badadon showed the highest detection percentage (92.9%) followed by Braffedon (91.7%), then Palmindustrie V1 (90%), Adjardon (88.9%), Doudbougazou (83.3%), Yaokro (66.7%), Likpilassié (66.7%), and Amanikro (57.1%)

CILY phytoplasma was distinguished from the CSPWD and the Mozambican LY phytoplasmas based on RFLP profiles and SNPs on their SecA and 16S ribosomal DNA sequences.

The use of the SecA PCR proved to be a useful diagnostic alternative to 16S rDNA for the detection of the CILY phytoplasma and its differentiation from other 16SrXXII West African phytoplasma strains. These findings set the basis to further implement new field culture practices and a new plan to more effectively manage CILY in Grand-Lahou.

This work was carried out with the aid of a grant from the International Development Research Centre (IDRC), Ottawa, Canada, www.idrc.ca, and with financial support from the Government of Canada, provided through Foreign Affairs, Trade and Development Canada (DFATD), www.international.gc.ca