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Isolation and Identification of Fungal Pathogens in Palm Groves of Oued Righ

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Abstract : Prospected palm groves of Oued Righ regions (Ouargla, Algeria) allowed us to observe sudden death of palm trees aged between 05 and 70 years. Field examinations revealed abnormal clinical signs with sometimes a quick death of affected trees. Entomologic investigations have confirmed the absence of phytophagous insects on dead trees. Further investigations by questioning farmers on the global management of palm groves visited (Irrigation, water quality used, soil type, etc.) did not establish any relationship between these aspects and the death of palm trees, which naturally pushed us to focus our investigations for research on fungal pathogens. Thus, laboratory studies were conducted to know the real causes of this phenomenon, 13 fungi were found on different parts of the dead palm trees. The flowing fungal types were identified: 1-Diplodia phoenicum, 2-Theilaviopsis paradoxa, 3-Phytophthora sp, 4-Helminthosporium sp, 5-Stemphylium botryosum, 6-Alternaria sp, 7-Aspergillus niger, 8-Aspergillus sp.

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