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Cucurbit-associated taxa of the *Fusarium solani* species complex not previously detected in Spain

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Watermelon and melon crops are affected worldwide by important soil-borne fungal diseases like *Fusarium* wilt which causes economic damage in a large number of producing areas. Despite *Fusarium oxysporum* is considered one of the main causal agents of this disease, species of other *Fusarium* complexes can be also associated with this disease in cucurbits. In this work, we present the results obtained in several surveys performed to update epidemiological data on these pathogens that affect melon and watermelon cultivation in the main Spanish producing areas, in order to take a current picture of the actual incidence of these soil diseases in our country. Results reveal that several species of the genus *Fusarium* are the most important soil pathogens in the sampled areas. The most frequently found causal agents of *Fusarium* wilt have been, apart from the previously detected *F. oxysporum*, several taxa of the so-called *F. solani* species complex, like *Neocosmospora falciforme*, *N. keratoplastica*, and *N. petroliphila*, not previously described in Spain. This work was supported by grant AGL2017–85563-C2–1,2 which was partly funded by the ERDF.

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