

Bibliographic Inventory of the Olive Tree (*Olea europaea* L.) Fungal Diseases in the World

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ABSTRACT

The olive tree can be attacked by different fungal pathogens those attack different tree parts (roots, stem, leaves, flowers and fruits). In this study, all the olive tree fungal pathogens in the world were listed. 124 fungal pathogens were listed in this work, the majority of the olive fungal pathogens were encountered in Europe with 83 species, most of them were encountered in Italy (55 species), followed by Spain (46) and Greece (24). Forty-two olive tree fungal pathogens were cited in the Middle East. Thus, 41 fungal species were responsible for several symptoms on different parts of the olive plants in Iran, followed by 8 pathogens in Jordan and 6 in Israel. Forty fungal diseases of the olive tree were cited in the American continent: 31 olive tree pathogens were encountered in United States of America, followed by Argentina (17 species) and only one disease was detected in Mexico, Chile, Brazil and Colombia. Twenty-two olive diseases were listed in Africa, more than a half of them were cited in Tunisia (14 pathogens), followed by Morocco and Egypt (10 fungal species for each). Fourteen olive diseases were cited in Australia and six in Asia.

Keywords: *Olea europaea*, fungal pathogens, Morocco and Egypt.

INTRODUCTION

Olive (*Olea europaea* L.), belonging to the Oleaceae botanical family, is a long-living and legendary tree with more than economical importance (López-Escudero and Mercado-Blanco, 2011). Olive is one of the most ancient cultured plants and the only species within the Oleaceae family with edible fruit. Domestication took place around 6.000– 5.000 B.C., probably from wild olives (*O. europaea* L. subsp. *sylvestris*). Due to the presence of abundant latent buds in the wood, olive is easy to propagate and this may have contributed to its cultivation at ancient times (Zohary and Spiegel-Roy, 1975; Caballero and del Río, 2008). Although the olive tree originated in Asia. It has been cultivated for over 3000 years in Mediterranean countries, where much of the Olive crop is used to make olive oil. The Olive is an important crop in terms of both its commercial value and the role it plays in the rural economy of the Mediterranean region, with its millions of producers (Gonzalez-Andujar, 2009).

It is assumed that its expansion throughout the Mediterranean Basin took place from the Anatolian peninsula, Cyprus, Crete and Egypt, at first by the Greeks and Phoenicians, later by the Carthaginians, Romans, and Arabs (López-Escudero and Mercado-Blanco, 2011). Therefore, olive is linked to the history of some of the most ancient Mediterranean civilizations. Later, at the time of the large transoceanic voyages in the 15th and 16th centuries, it spread to the Americas, and more recently, it was introduced and cultivated in South Africa, China, Japan and Australia (Civantos 2008).

97% of the global cultivation area (approximately 10.5 millions ha) is located in the Mediterranean Basin, 0.8% in the Americas, 1.5% in Asia and 0.01% in Oceania (FAO, 2008).

Olive is cultivated in a wide variety of soils and can tolerate a broad range of physicochemical conditions. For instance, olive is drought-resistant, heat tolerant, and well-adapted to a wide range of soil pH (5.5–8.5). Similarly, olive has high tolerance to salinity (Aragüés *et al.*, 2010) and to an excess of boron and chlorine (Navarro and Parra 2008). However, olive trees are sensitive to poorly oxygenated soils which may occur for example after persistent flooding. Flood tolerance is cultivar-dependent and it is associated with the capacity to produce adventitious roots near the soil surface (Aragüés *et al.*, 2004). In general, flood tolerance is lower in young trees and during the active growing phase of the tree (Sánchez-Hernández *et al.*, 1998; Navarro and Parra 2008).

The olive tree and its products can be damaged from many diseases and pests. The most dangerous are the bacterium *Pseudomonas savastanoi*, which produce tubercles forms on the branches and stems, the fungus *Cycloconium oleaginum* that damage the leaves and fruits and *Verticillium dahliae* that is harmful for the root apparatus and the growth of the plants. Among phytophagous, most harmful are the olive fruit fly (*Bactrocera olea* Gmelin), the olive moth (*Prays oleae* Bernard) and black scale (*Saissetia oleae* Olivier). Olive fruit fly is the major pest and can cause severe economic damage to olive production, which effect oil extraction and table use (Rugini *et al.*, 2005).

The aim of this study was to list all the olive fungal pathogens in the world.

THE CATALOG OF THE OLIVE TREE FUNGAL DISEASES

- *Alternaria alternata* (Leaf spot, Leafy cuttings and Fruit rot): **Spain** (Moral *et al.*, 2008a; Gonzalez-Andujar, 2009). **Italy** (Visconti *et al.*, 1986; Bottalico and Logrieco, 1993). **Iran** (Torbati *et al.*, 2014). **Greece** (Bourbos *et al.*, 1999). **Algeria** (Faiza *et al.*, 2011).
- *Alternaria sp.* (Fruit rots and leaf spot): **Iran** (Sanei and Razavi, 2012). **Portugal** (Sobreiro, 1993). **Jordan** (Mamluk *et al.*, 1984). **Spain** (Sanchez Hernandez *et al.*, 1998b).
- *Antennaria elaeophila* (sooty mould): **Portugal** (De Almeida, 1940). **Spain** (Anonymous, 2005).
- *Armillaria mellea* (Fruit and collar and root rots): **Spain** (Bardía, 1950; Laviola, 1992; Aguin *et al.*, 2003, 2004; Anonymous, 2005; Gonzalez-Andujar, 2009; Fernandez Escobar *et al.*, 2013). **California** (Sibbet and Fuguson, 2005). **Tunisia** (Boulila *et al.*, 1993; Boulila and Mahjoub, 1993, 1994; Boulila, 2001; 2011). **Italy** (Verona, 1950; Loreto *et al.*, 1993; Di Franco *et al.*, 2009; Iannotta *et al.*, 2012b; Agosteo, 2012). **Greece** (Tsopelas, 1999; Tsopelas and Tjamos, 1999). **Portugal** (Bragança *et al.*, 2004). **Iran** (Torbati *et al.*, 2014). **France** (Guillaumin *et al.*, 1982).
- *Armillaria sp.* (Root rot): **Spain** (Sanchez Hernandez *et al.*, 1996, 1998b).
- *Arthrinium phaeospermum*: (Fruit rot and Leaf chlorosis): **Iran** (Torbati *et al.*, 2014). **Italy** (Lo Piccolo, 2013).
- *Aspergillus flavus* (Fruit rot): **Algeria** (Faiza *et al.*, 2011).
- *Aspergillus fumigates* (Fruit rot): **Algeria** (Faiza *et al.*, 2011).
- *Aspergillus ochraceus* (Fruit rot): **Iran** (Torbati *et al.*, 2014).
- *Aureobasidium pullulans* (Fruit rot): **Iran** (Torbati *et al.*, 2014).
- *Botryosphaeria ribis* (Branch dieback): **Spain** (Romero *et al.*, 2005).
- *Botryosphaeria sp.* (fruit rot): **Iran** (Sanei and Razavi, 2012). **Australia** (Spooner-Hart *et al.*, 2007).
- *Botrytis cinerea* (Botrytis blight): **Iran** (Sanei and Razavi, 2012).
- *Calospora oleicola - Botryosphaeria lutea* (Twig and branches dieback): **Italy** (Laviola, 1992).
- *Capnodium oleaeophilum* (Sooty mould): **Morocco** (Bremond, 1950). **Greece** (Michelakis, 1990; Haniotakis, 2005). **France** (Anonymous, 1981, 1984). **Spain** (Gonzalez-Andujar, 2009). **Italy** (Verona, 1950; Iannotta *et al.*, 2012b). **Tunisia** (Pagliano, 1923; Boulila, 2001b, 2011). **Portugal** (Santos *et al.*, 2013).

- *Capnodium* sp. (Fruit rots and Sooty mould): **Australia** (Spooners-Hart et al., 2007). **Italy** (Casilli, 1970). **Portugal** (Sobreiro, 1993). **Spain** (Anonymous, 2005).
- *Cladosporium herbarum* (Fruit rots): **Algeria** (Faiza et al., 2011).
- *Cladosporium* sp. (leaf mould): **Iran** (Sanei and Razavi, 2012). **Australia** (Sergeeva et al., 2008). **Jordan** (Mamluk et al., 1984).
- *Colletotrichum acutatum* (Anthracnose and flower infection): **Spain** (Martín and García-Figueres, 1999; Martín et al., 2002; Oliveira et al., 2005; Moral et al., 2006, 2007, 2008c, 2009a, 2009b, 2010, 2012; Roca et al., 2007; López-Escudero et al., 2008a, 2008c; Moral and Trapero, 2009, 2012; Gutiérrez and Ponti, 2009; Xaviér, 2009; Jurado-Bello, 2010). **Iran** (Sanei and Razavi, 2012). **Australia** (Sergeeva et al., 2008a, 2008b, 2010; Spooners-Hart and Sergeeva, 2010; Sergeeva and R. Spooners-Hart, 2009a, 2011; Sergeeva, 2011; Hall et al., 2012). **Greece** (Tjamos et al., 1993). **Portugal** (Carvalho et al., 2003, 2006, 2008; Talhinhos et al., 2003, 2004, 2005, 2007, 2009, 2011; Sreenivasaprasad and Talhinhos, 2005; Gomes et al., 2007, 2008, 2009, 2012; Mota-Capitão et al., 2008). **Italy** (Ciccarone, 1950; Martelli, 1959; Prota, 1995; Pasqualone et al., 2001, Trapero Casas, 2003; Agosteo et al., 2003, 2005, 2007; Cacciola et al., 2001, 2007, 2012; Di Franco et al., 2009). **Brazil** (Duarte et al., 2010); **China** (Margarita et al., 1986, 1988).
- *Colletotrichum clavatum* (Anthracnose) : **Italy** (Faedda et al., 2011; Agosteo, 2012; Cacciola et al., 2012).
- *Colletotrichum gloeosporioides- Phlyctema vagabunda - Neofabraea alba* (Anthracnose, flower infection, leaf chlorosis) : **Morocco** (Achbani et al., 2013). **Iran** (Sanei and Razavi, 2011, 2012; Torbati et al., 2014). **Portugal** (De Almeida, 1940; Sobreiro, 1993; Talhinhos et al., 2005, 2007, 2009, 2011; Mota-Capitão et al., 2008). **Greece** (Sarejanni, 1936; Michelakis, 1990; Tjamos et al., 1993; Vleioras et al., 2005). **Argentina** (Brancher et al., 2012). **Tunisia** (Kamoun, 1971; Boulila and Mahjoub, 1994, Rhouma et al., 2010, Boulila, 2011). **Italy** (Petri, 1930; Verona, 1950; Ciccarone, 1950; Saponaro, 1953; De Robertis, 1957; Martelli, 1959; Loprieno and Tenerini, 1960a; Martelli, 1960, 1961; Ribaldi, 1962; Graniti and Procacci, 1970; Scarito and Laviola, 1986, Venturella, 1991, Laviola, 1992; Graniti et al., 1993; Pennisi et al., 1993; Agosteo and Pennisi, 1994; Prota, 1995; Cacciola et al., 1996; Agosteo et al., 1997, 2002, 2003, 2005, 2007; Iannotta et al., 1999; Cacciola et al., 2001, 2007, 2012; Martelli et al., 2002; Nigro and Ippolito, 2002; Trapero Casas, 2003; Scarito et al., 2003; López-Escudero et al., 2008a, 2008c; Moral and Trapero, 2012; Mosca et al., 2012; Iannotta et al., 2012b; Schena et al., 2013). **Spain** (Fragoso, 1927; García De Cabral, 1949; Mateo-Sagasta E., 1968; Del Moral et al., 1986; Laviola, 1992; García-Figueres et al., 1997; Trapero et al., 1998; Texeira et al., 2000; Martin et al., 2002; Oliveira et al., 2005; Anonymous, 2005; Moral et al., 2006, 2007, 2012; Roca et al., 2007; Gutiérrez and Ponti, 2009; Gonzalez-Andujar, 2009; Xaviér, 2009; Jurado-Bello, 2010). **Israel** (Freeman et al., 1998). **Montenegro** (Latinovic and Z. Vucinic, 2002; Latinovic et al., 2013); **India** (Kaul and Thakur, 1985; Mugnai et al., 1993). **Yugoslavia** (Vucinic and Latinovic, 1999). **Australia** (Sergeeva & Spooners-Hart, 2009, 2009a, 2011; Sergeeva et al., 2008a, 2008b; Spooners-Hart and Sergeeva, 2010; Sergeeva, 2011). **Greece** (Zachos and Makris, 1963). **South Africa** (Gorter, 1956). **Japan** (Naito, 1950). **California** (Rooney-Latham et al., 2013).
- *Colletotrichum simmondsii* (Anthracnose): **Spain** (Moral et al., 2012).
- *Corticium rolfsii* (*Sclerotium rolfsii*) (Root rot and decline): **Spain** (Sanchez Hernandez et al., 1996, 1998a; 1998b; Aranda et al., 2011b). **Egypt** (Moussa et al., 2006). **Tunisia** (Boulila and Mahjoub, 1994, Boulila, 2001a, 2001b, 2011; Boughalleb-M'Hamdi et al., 2011). **Greece** (Georgopoulos and Thanasouloupoulos, 1960). **Pakistan** (Farooq et al., 2010).
- *Corticium solani* (Fruit rot): **Iran** (Torbati et al., 2014).
- *Cribraria violacea* (on the bark of the olive tree): **Spain** (Llistosella et al., 1986). **Greece** (Alexopoulos, 1959).

- *Crytoascus oligosporus* (*Melanospora oligospora*) (Death of the rootlets): **Italy** (Verona, 1950).
- *Cycloconium oleaginum* (*Spilocaea oleagina*) (*Fusicladium oleagineum*) (Olive Leaf spot or Olive Scab or Bird's-eye spot and Peacock spot) : **Morocco** (Bremond *et al.*, 1950, Jaidi, 1968 ; Renaud, 1968 ; Outassourt, 1983; Besri and Outassout, 1984; Rahmani, 1999 ; Tajnari, 1999 ; Rahioui *et al.*, 2009, 2013 ; Zine El Aabidine *et al.*, 2010). **Iran** (Sistani *et al.*, 2009; Sanei and Razavi, 2011; 2012). **Italy** (Petri, 1940; Baldacci, 1948 ; Morettini, 1954 ; Modugno-Pettinari, 1957 ; Prota, 1958 ; Gambogi, 1958 ; Castellani, 1958 ; Salerno, 1958; 1960; 1965, 1966; Sibia, 1959; Loprieno and Teneeni, 1959, 1960b, 1960c; Castellani and Matta, 1960; Castellani and Calliano, 1961 ; Matta and Rubiola, 1961, Graniti *et al.*, 1962 ; Bonifacia and Gudin, 1961 ; Graniti, 1962a, 1962b, 1965a, 1965b, 1966, 1988, 1993, 2002; Andreucci and Bonifacio, 1962; Bonifacio, 1962, 1965 ; Tenerini, 1964 ; Ciccaroan, 1964; Verona, 1964; Laviola, 1966, 1968a, 1968b; Arena, 1966; Raggi and D'armini, 1966; Graniti and De Leo, 1966 ; Andreucci, 1970 ; Dipaola, 1970 ; Cirio and Menna, D'armini, 1970a, 1970b, 1985; Sparapano and Graniti, 1978 ; Cirulli, 1981 ; Graniti and Laviola, 1981 ; Lops *et al.*, 1990, 1993 ; Venturella, 1991 ; Laviola, 1992; Civantos, 1992 ; De Marzo *et al.*, 1993; Nicoletti and Rinaldi, 1993; Rugini *et al.*, 1993; Laviola and Scarito, 1993; Corda *et al.*, 1993; Rugini *et al.*, 1996; Ciccicarese, 1998; Iannotta *et al.*, 1999, 2002, 2003, 2007, 2012b; Tosi and Zizzerini, 2000 ; Tombesi *et al.*, 2000 ; Agosteo, 2002, 2012; Agosteo and Scolaro, 2002 ; Ciccicarese *et al.*, 2002; Mungianu *et al.*, 2002; Martelli *et al.*, 2002; Iannotta *et al.*, 2003, 2007 ; Iannotta and Monardo, 2004; Laccone, 2009 ; Campisi *et al.*, 2009 ; Fodale *et al.*, 2009 ; Pannelli *et al.*, 2009; Cristinzio *et al.*, 2009 ; Rongai *et al.*, 2012). **Spain** (Benlloch, 1928, 1942; Domínguez, 1957, 1982 ; Rueda *et al.*, 1961 ; Bonifacio, 1964, 1965 ; Laborda, 1965 ; Alvarado Cordobés and De Benito Dorrego, 1975; Paúl and Arozamena, 1985; Jiménez Díaz, 1985; Jiménez Díaz *et al.*, 1987 ; Antón Sánchez, 1988, López-Villata and Domínguez de la Concha, 1989; Anton and Laborda, 1989a, 1989b; Andrés, 1991 ; Laviola, 1992; Trapero, 1995 ; Sanchez *et al.*, 1997 ; Trapero Casas *et al.*, 1997; Viruega *et al.*, 1997; Tous and Romero, 1998; Viruega and Trapero, 1999, 2002; López-Doncel *et al.*, 1999, 2000 ; Texeira *et al.*, 2000 ; Rallo, 2000; López-Doncel *et al.*, 2000 ; Trapero and Blanco, 2001 ; González-Lamothe *et al.*, 2002; Mungianu *et al.*, 2002; Gonzalez-Lamothe *et al.*, 2002; Torrejón, 2003 ; Pedò *et al.*, 2003 ; Avila de la Calle *et al.*, 2004 ; León *et al.*, 2004, 2005; Rallo, 2005 ; Trapero and Lopez Doncel, 2005 ; Moral *et al.*, 2005; Benitez *et al.*, 2005a, 2005b; Alonso *et al.*, 2006; León *et al.*, 2007 ; Zarco *et al.*, 2007; León *et al.*, 2007; Roca *et al.*, 2007; González and García, 2008; López-Escudero *et al.*, 2008c; Gonzalez-Andujar, 2009; Hermoso *et al.*, 2011; Viruega *et al.*, 2011, 2013; Castillo, 2014). **Australia** (Guerin *et al.*, 2002; Spooner-Hart *et al.*, 2007; Sergeeva *et al.*, 2009; Sergeeva and Spooner-Hart, 2011; Rallo *et al.*, 2011 ; Hall *et al.*, 2012). **California** (Sibbet and Fuguson, 2005; Krueger and Vossen, 2007). **Tunisia** (Pagliano, 1923; Boulila and Mahjoub, 1994; Boulila, 2011; Larbi *et al.*, 2011 ; Rhouma *et al.*, 2012 ; 2013). **China** (Chen *et al.*, 1981, 1982). **Greece** (Michelakis, 1990; Bourbos and Skoudridakis, 1993, Tjamos *et al.*, 1993b ; Navrozidis *et al.*, 2007); **Portugal** (De Almeida, 1940; Sobreiro, 1993). **France** (Bernaux, 1950; Bricchet, 1952 ; Colbrat, 1972 ; Anonymous, 1984, Regis, 2007; Regis and Roubal, 2011, 2012 ; Roubal *et al.*, 2013). **Israel** (Lavee, 1990, 1999; Shabi *et al.*, 1994; Mekuria *et al.*, 2001a, 2001b). **Algeria** (Guechi and Girre, 1994; Guechi, 2009). **Egypt** (Assawah, 1967; Abo Elmegid and Gaafar, 1970; Saad and Masri, 1978; Zayed *et al.*, 1980). **Jordan** (Mamluk *et al.*, 1984 ; Al-Khatib *et al.*, 2010; Al-Tarawneh, 2013). **New Zealand** (MacDonald *et al.*, 2000 ; Obanor *et al.*, 2002, 2006 ; 2005, 2008a, 2008b, 2010, 2011, 2013). **Turkey** (Göbelez, 1964; Azeri, 1993; Kovanci *et al.*, 2006). **California** (Wilson and Miller, 1949; Miller, 1949; Kechmadze, 1972; Wilson and Ogawa 1979; Teviotdale *et al.*, 1989; Teviotdale, 1989; 1994; Teviotdale and Sibbett, 1995; Vossen, 2004, 2007). **Palestine** (Palti, 1949 ; Palti *et al.*, 1949 ; Salman *et al.*, 2011, 2014; Abuamsha *et al.*, 2013 ; Abu-Khalaf and Salman, 2014). **Argentina** (Oriolani *et al.*, 2012). **Montenegro** (Mijuskovic, 1968, 1985). **Syria** (Hasan, 2008). **South Africa** (Gorter, 1943). **Chile** (Contreras, 2006; Tapia *et al.*, 2009; Wallberg, 2011). **Japan** (Matsuda *et al.*, 1998). **Slovenia** (Jančar, 2003). **Croatia** (Benčić and Grgantov, 2010). **Yugoslavia** (Mijuskovic, 1967, 1968, 1985).

- *Cylindrocarpon destructans* - *Nectria radicolica*: (Fruit rot): **Italy** (Zizzerini and Marte, 1976; Laviola, 1992). **Spain** (Laviola, 1992; Sanchez Hernandez et al., 1998a, 1998b; Báidez et al., 2006). **Iran** (Torbaty et al., 2014).
- *Cylindrocarpon* sp. (Root rot): **Spain** (Sanchez Hernandez et al., 1996; Fernandez Escobar et al, 2013).
- *Cytospora oleina* (wilt): **Greece** (Rumbos, 1988). **Italy** (Venturella, 1991; Laviola, 1992)
- *Diaporthe viticola* (Twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Diatrype oregonensis* (twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Diatrype stigma* (twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Didymium squamulosum* (on the bark): **Greece** (Alexopoulos, 1959).
- *Diplodia mutila* (twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Diplodia olivarum* (Olive rot): **Italy** (Lazzizera et al., 2008b).
- *Diplodia seriata* - *Botryosphaeria obtuse*: (fruit rot, twig and branches dieback): **Italy** (Lazzizera et al., 2008a). **California** (Úrbez-Torres et al., 2013). **Spain** (Moral et al., 2007, 2008b, 2010). **Croatia** (Kaliterna et al., 2012). **Tunisia** (Chattaoui et al., 2012). **Montenegro** (Latinovic et al., 2013).
- *Diplodia* sp. (Olive rot): **Iran** (Sanei and Razavi, 2012). **California** (Sibbet and Fuguson, 2005). **Spain** (Sanchez Hernandez et al., 1998a).
- *Dothiorella iberica* (twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Epicoccum nigrum* (Fruit rot): **Iran** (Torbaty et al., 2014).
- *Eutypa lata* (root rot and twig and branches dieback): **California** (Úrbez-Torres et al., 2013). **Iran** (Sanei and Razavi, 2012). **Italy** (Tosi and Natalini, 2009). **Greece** (Rumbos, 1993). **Spain** (Sanchez Hernandez et al., 1998a; Fernandez Escobar et al, 2013).
- *Fomes fulvus* (Trunk rot): **Italy** (Verona, 1950; Bonifacio and Gambetta, 1965).
- *Fomes* sp. (Decay): **Italy** (Viggiani, 1989).
- *Fusarium acuminatum* - *Gibberella acuminata* (Root rot): **Spain** (Sánchez-Hernández et al., 1998b). **Egypt** (Moussa et al., 2006).
- *Fusarium equiseti* (Root rot): **Egypt** (El-Morsi and Mahdy, 2013).
- *Fusarium eumartii* (Root rot): **Spain** (Sánchez-Hernández et al., 1998b).
- *Fusarium moniliforme* (Root rot): **Egypt** (El-Morsi and Mahdy, 2013). **Spain** (Del Moral et al., 1986).
- *Fusarium nygamai* (Fruit rot): **Iran** (Torbaty et al., 2014).
- *Fusarium oxysporum* (Root Rot): **Spain** (Sanchez Hernandez et al., 1996, 1998b). **Tunisia** (Boulila and Mahjoub, 1994; Boughalleb-M'Hamdi et al., 2011). **Egypt** (Moussa et al., 2006; El-Morsi and Mahdy, 2013). **California** (Puhalla and Hummel, 1983). **Colombia** (Martins et al., 2013).
- *Fusarium oxysporum* f.sp. *ciceris* (Root rot): **Spain** (Aranda et al., 2011b).
- *Fusarium solani* (Root Rot): **Spain** (Sanchez Hernandez et al., 1996). **Iran** (Sanei et al., 2005; Sanei and Razavi, 2012). **Argentina** (Biagi et al., 2001; Perez et al., 2011, 2012). **Tunisia** (Boulila and Mahjoub, 1994; Boulila, 1994, 2011; Boughalleb-M'Hamdi et al., 2011). **Egypt** (Moussa et al., 2006; El-Morsi and Mahdy, 2013). **Nepal** (Vettraino et al., 2009). **Jordan** (Al-Khatib, 2012).
- *Fusarium* sp. (Root Rot): **Spain** (Sanchez Hernandez et al., 1996; Fernandez Escobar et al, 2013). **Argentina** (Brancher et al., 2012). **Iran** (Torbaty et al., 2014). **Australia** (Sergeeva and Spooner-Hart, 2011).
- *Fusicoccum luteum* - *Botryosphaeria lutea* (Dieback): **Newzealand** (Taylor et al., 2001).
- *Ganoderma lucidum* (attacking the trunks of olive trees): **Greece** (Sarejanni and Démétriadès, 1951).
- *Lasiodiplodia theobromae* (twig and branches dieback): **California** (Úrbez-Torres et al., 2013).
- *Leveillula taurica* (powdery mildew): **Italy** (Agosteo, 2012).
- *Macrophomina phaseolina* (*Rhizoctonia bataticola*) (Root Rot): **Iran** (Sanei et al., 2005; Sanei and Razavi, 2012). **Australia** (Sergeeva et al., 2005; Sergeeva and R. Spooner-Hart, 2011; Hall et al., 2012).

Spain (Sanchez Hernandez *et al.*, 1996, 1998b). **Tunisia** (Boulila and Mahjoub, 1994; Boulila, 2001a,b; 2011). **Greece** (Michelakis, 1990). **Egypt** (Ghoneim *et al.*, 1996; Radwan *et al.*, 1995; El-Morsi and Mahdy, 2013). **Israel** (Harpaz and Gerson, 1966). **Turkey** (Ulukus, 1984).

- *Nectria haematococca* (*Fusarium solani*) (Root rot) **Argentina** (Babbitt *et al.*, 2002; Barreto *et al.*, 2003). **Tunisia** (Boulila, 2001b).
- *Neofusicoccum australe* (Fruit rot and decline): **Italy** (Lazzizzera *et al.*, 2008b; Carlucci *et al.*, 2013).
- *Neofusicoccum leteum* (Fruit rot, twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013). **Australia** (Sergeeva *et al.*, 2009). **Italy** (Lazzizzera *et al.*, 2008b).
- *Neofusicoccum mediterraneum* (Fruit rot, twig and branches dieback): **California** (Trouillas *et al.*, 2010; Úrbez-Torres *et al.*, 2013). **Italy** (Lazzizzera *et al.*, 2008b). **Montenegro** (Latinovic *et al.*, 2013).
- *Neofusicoccum parvum* (Fruit rot): **Italy** (Lazzizzera *et al.*, 2008b).
- *Neofusicoccum vitifusiforme* (Fruit rot, twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013). **Italy** (Lazzizzera *et al.*, 2008b; Carlucci *et al.*, 2013).
- *Neosectalidium dimidiatum* - *Nattrasia mangifera* (Nattrasia Canker): **Iran** (Sanei and Razavi, 2012).
- *Omphalotus olearius* (Root rot): **Morocco** (Outcoumit *et al.*, 2012); **Iran** (Torbaty *et al.*, 2014). **Israel** (Mikiashvili *et al.*, 2004). **California** (Teviotdale, 1994). **Greece** (Polemias *et al.*, 2011). **Spain** (Martínez Macarro and Reyes García, 2008; Fernandez Escobar *et al.*, 2013).
- *Penicillium expansum* (Fruit rot): **Iran** (Torbaty *et al.*, 2014).
- *Pestalotia fici* (Fruit rot): **Morocco** (Chliyah *et al.*, 2014c).
- *Phaemoniella* sp. (twig and branches dieback): **Italy** (Nigro *et al.*, 2013).
- *Phaeoacremonium aleophilum* (twig and branches dieback): **Italy** (Crous *et al.*, 1996; Carlucci *et al.*, 2013; Nigro *et al.*, 2013). **California** (Úrbez-Torres *et al.*, 2013).
- *Phaeoacremonium alvesi* (twig and branches dieback): **Italy** (Nigro *et al.*, 2013).
- *Phaeoacremonium angustius* (twig and branches dieback): **Italy** (Crous *et al.*, 1996). **Argentina** (Crous *et al.*, 1996).
- *Phaeoacremonium inflatipes* (twig and branches dieback): **Italy** (Crous *et al.*, 1996; Spagnolo *et al.*, 2011).
- *Phaeoacremonium parasiticum* (xylem lesions): **Greece** (Rumbos, 1986); **Italy** (Nigro *et al.*, 2013).
- *Phaeoacremonium rubrigenum* (twig and branches dieback): **Italy** (Nigro *et al.*, 2013).
- *Phaeoacremonium* sp. (Decline): **Italy** (Nigro *et al.*, 2013).
- *Phaemoniella chlamydospora* (twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013).
- *Phialophora parasitica*: (Fruit rot): **Greece** (Thanassouloupoulos and Thanassouloupoulos, 1984). **Italy** (Scheda *et al.*, 2002; Campanile *et al.*, 2008).
- *Phoma cladoniicola* (Leaf chlorosis): **Italy** (Lo Piccolo, 2013).
- *Phoma incompta* (Shoot necrosis, canker and tip die-back): **Greece** (Malathrakis, 1979). **Spain** (Sanchez Hernandez *et al.*, 1998). **Italy** (Zizzerini and Tosi, 1994; Scarito and Salamone, 2004; Carlucci *et al.*, 2008). **Croatia** (Ivic *et al.*, 2010).
- *Phoma* sp. (Stem blight): **Spain** (Fisher *et al.*, 1992; Gonzalez-Andujar, 2009). **Tunisia** (Triki *et al.*, 2010; Rhouma *et al.*, 2010; Boulila, 2011). **Greece** (Papachatzis and Vagelas, 2008). **Iran** (Sanei and Razavi, 2012).
- *Phomopsis* sp. (Twig blight and branches dieback): **California** (Úrbez-Torres *et al.*, 2013). **Spain** (Fisher *et al.*, 1992). **Argentina** (Perez *et al.*, 2010a, 2010b; Brancher *et al.*, 2012).
- *Phyllosticta panizzei* (Leaf chlorosis): **Argentina** (Oriolani *et al.*, 2012 ; Brancher *et al.*, 2012).
- *Phytophthora citricola* (Root and crown rot): **California** (Teviotdale, 1994).
- *Phytophthora dreschleri* (Root and crown rot): **California** (Teviotdale, 1994; Sibbet and Fuguson, 2005).
- *Phytophthora inundata* (Phytophthora decline and root rot): **Italy** (Cacciola *et al.*, 2007; Sanzani *et al.*, 2012). **Spain** (Sanchez-Hernandez *et al.*, 1998a, 2001; Brasier *et al.*, 2003a, 2003b, López-Escudero *et al.*, 2008b ; Aranda *et al.*, 2011b; Lozano-Tovar *et al.*, 2013; Safaiefarahani *et al.*, 2013).

- *Phytophthora megasperma* (Phytophthora decline and root rot): **Iran** (Sanei *et al.*, 2005; Sanei and Razavi, 2012). **Italy** (Cacciola *et al.*, 2001, 2007; Martelli *et al.*, 2002 ; Sanzani *et al.*, 2012). **Spain** (Sánchez-Hernández *et al.*, 1997, 1998a, 1998b; Baidez *et al.*, 2006; Aranda *et al.*, 2011b ; Lozano-Tovar *et al.*, 2013). **Greece** (Kouyeas and Chitzanidis, 1968).
- *Phytophthora nicotianae* (Root rot): **Iran** (Sanei and Razavi, 2012). **Italy** (Nigro and Ippolito, 2002; Agosteo *et al.*, 2002; Schena *et al.*, 2004; Cacciola *et al.*, 2007; Lo Giudice *et al.*, 2010; Sanzani *et al.*, 2012). **Nepal** (Vannini *et al.*, 2007). **Argentina** (Vettraino *et al.*, 2009).
- *Phytophthora palmivora* (Phytophthora decline and root rot): **Morocco** (Chliyah *et al.*, 2013; 2014a, 2014b). **Spain** (Sanchez Hernandez *et al.*, 1998a, 1998b). **Italy** (Cacciola *et al.*, 2000, 2007; Agosteo *et al.*, 2002; Martelli *et al.*, 2002 ; Minerdi *et al.*, 2008 ; Lo Giudice *et al.*, 2010; Sanzani *et al.*, 2012). **Argentina** (Lucero *et al.*, 2006). **Iran** (Taheri *et al.*, 2012).
- *Phytophthora sp.* (Fruit rot): **Italy** (Nigro and Ippolito, 2002; Sanzani). **Australia** (Spooner-Hart *et al.*, 2007; Sanzani *et al.*, 2012). **Iran** (Torbati *et al.*, 2014).
- *Phytophthora sp.* (Phytophthora decline and root rot): **Spain** (Sánchez-Hernández *et al.*, 1996, 1997, 1998a, 1998b; Del Rio *et al.*, 2000, 2003; Sanchez-Hernandez, 2001; Raya-Ortega, 2005; López-Escudero *et al.*, 2008c; Hall *et al.*, 2012; Fernandez Escobar *et al.*, 2013). **Italy** (Martelli *et al.*, 2002; Nigro and Ippolito, 2002; Di Franco *et al.*, 2009; Agosteo, 2012; Sanzani *et al.*, 2012). **Argentina** (Spooner-Hart *et al.*, 2007; Vettraino *et al.*, 2009; Brancher *et al.*, 2012). **California** (Wilhelm *et al.*, 1962; Farr *et al.*, 1989; Sibbet and Fuguson, 2005; Krueger and Vossen, 2007; Vossen, 2007). **Australia** (Sergeeva and Spooner-Hart, 2011; Hall *et al.*, 2012).
- *Pilidium concavum* (Fruit rot): **Iran** (Arzanlou *et al.*, 2013).
- *Pleurostomophora richardsiae* (Decline): **Italy** (Carlucci *et al.*, 2013).
- *Pleurotus sp.* (Fruit rot): **Italy** (Viggiani, 1989).
- *Polyporus sp.* (Heart rot and decay of the trunk): **Morocco** (Bremond, 1950). **Spain** (Gonzalez-Andujar, 2009; Fernandez Escobar *et al.*, 2013).
- *Pseudocercospora cladosporioides* - *Cercospora cladosporioides* - *Mycocentrospora cladosporioides* (Leaf spot and fruit rot): **Australia** (Spooner-Hart, 2005; Spooner-Hart *et al.*, 2007, 2008 ; Sergeeva *et al.*, 2008; Sergeeva and R. Spooner-Hart, 2009, 2011; Hall *et al.*, 2012). **Spain** (Paúl and Arozamena, 1985; Moral and Cabezas, 1985; Laviola, 1992; Benali, 2001; Avila de la Calle *et al.*, 2004, Avila *et al.*, 2005; Anonymous, 2005; Hawksworth, 2005; Roca *et al.*, 2007 ; López-Escudero *et al.*, 2008a, 2008c ; Gonzalez-Andujar, 2009). **Argentina** (Sarasola, 1951; Brancher *et al.*, 2012; Oriolani *et al.*, 2012). **Iran** (Avila *et al.*, 2005). **Italy** (Modugno-Pettinari, 1953; De Robertis, 1957; Pettinar, 1960; Sibilina, 1960; Modugno Pettinari, 1960; Favaloro, 1970; Venturella, 1991 ; Laviola, 1992; Bottalico and Corda, 1995; Guarino *et al.*, 2000; Nigro *et al.*, 2000; 2002; Martelli *et al.*, 2002, Schena *et al.*, 2002; Di Franco *et al.*, 2009, 2009a ; Agosteo, 2012; Iannotta *et al.*, 2012b). **Portugal** (Sobreiro, 1993). **Tunisia** (Triki and Rhouma, 2008; Boulila, 2011). **Greece** (Pappas, 1993). **Montenegro** (Vucinic, 1987; Zora, 1994). **United Kingdom** (glasshouses) (Henricot *et al.*, 2009). **New Zealand** (Hansen and Rawlins, 1944). **California** (Krueger and Vossen, 2007; Vossen, 2007). **Yugoslavia** (Vucinic, 1993).
- *Pyrenochaeta quercina* (Fruit rot): **Italy** (Nigro and Ippolito, 2002).
- *Pythium aphanidermatum* (Root rot) **Iran** (Sanei *et al.*, 2005; Sanei and Razavi, 2012; Bahraminejad, 2012). **Jordan** (Al-Khatib, 2012).
- *Pythium irregulare* (Decline and root rot): **Spain** (Sanchez Hernandez *et al.*, 1998a; 1998b).
- *Pythium sp.* (Decline and root rot): **Spain** (Fernandez Escobar *et al.*, 2013).
- *Rhizoctonia solani* (Root rot) **Iran** (Sanei *et al.*, 2005; Sanei and Razavi, 2012). **Egypt** (Radwan *et al.*, 1995; Moussa *et al.*, 2006; El-Morsi and Mahdy, 2013). **Argentina** (Barrera *et al.*, 2003; Sergeeva and R. Spooner-Hart, 2011; Brancher *et al.*, 2012). **Spain** (Sanchez Hernandez *et al.*, 1996, 1998b). **Jordan** (Al-Khatib, 2012).

- **Rhizoctonia** sp. (Root rot): **Spain** (Fisher *et al.*, 1992 ;Sanchez Hernandez *et al.*, 1996). **Argentina** (Brancher *et al.*, 2012). **Australia** (Spooner-Hart *et al.*, 2007; Sergeeva and R. Spooner-Hart, 2011). **Italy** (Verona, 1950).
- **Rosellinia necatrix - Dematophora necatrix** (Fruit and root rot): **Spain** (Benlloch, 1945, Bardía, 1950; Sanchez Hernandez *et al.*, 1996, 1998b; Armengol *et al.*, 2010, Fernandez Escobar *et al.*, 2013). **Italy** (Petri, 1940; Verona, 1950; Schena *et al.*, 2002, 2004; Schena and Ippolito, 2003; Iannotta *et al.*, 2012b). **Portugal** (De Almeida, 1940). **Israel** (Sztejnberg and Madar, 1977, 1980). **Iran** (Behdad, 1975). **France** (Guillaumin *et al.*, 1982). **Argentina** (Nicolini, 1951).
- **Schizophyllum commune** (twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013). **Jordan** (Haddadin *et al.*, 2002).
- **Septoria oleagina** (leaf spot): **Italy** (Verona, 1950). **Morocco** (Maire and Werner, 1937; Haimed *et al.*, 2013). **France** (Guillaud, 1899). **Greece** (Sarejanni, 1936).
- **Sphaceloma oleae** (Fruit rot): **Italy** (Ciccarone and Graniti, 1959; Jensen *et al.*, 2010).
- **Sphaceloma** sp. (Fruit rot): **Mexico** (García-Álvarez, 1981).
- **Sphaeropsis dalmatica - Macrophoma dalmatica - Phyllosticta dalmatica - Phoma dalmatica - Phomopsis dalmatica - Camarosporium dalmaticum - Botryosphaeria dothidea - Fusicoccum aesculi-** (Fruit rot, twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013). **Tunisia** (Chattaoui *et al.*, 2011). **California** (Moral *et al.*, 2010). **Montenegro** (Mijuskovic, 2002; Latinovic *et al.*, 2013); **Italy** (Silvestri, 1945; Verona, 1950; Sibia, 1960; Russo, 1960; Solinas, 1967; Laviola, 1992; Iannotta *et al.*, 1999; 2006, 2007, 2008, 2010, 2012a, 2012b; Nigro and Ippolito, 2002; Vizzarri, 2006; Lazzizzera *et al.*, 2008b; Fodale *et al.*, 2009; Solinas, 2011; Iannotta and Scalercio, 2012; Agosteo, 2012). **Spain** (González, 2005; González *et al.*, 2006; González and Trapero, 2006; Gonzalez-Andujar, 2009; Moral *et al.*, 2010). **Croatia** (Saccardo, 1884). **Greece** (Sarejanni, 1936; Zachos and Tzavella-Klonari, 1979; Zachos and Tzavella-Klonari, 1983; Michelakis, 1990; Broumas *et al.*, 2002; Phillips *et al.*, 2005; Navrozidis and Tzanakakis, 2005; Navrozidis *et al.*, 2007). **Portugal** (Sobreiro, 1993). **Montenegro** (Kacic *et al.*, 1992; Mijuskovic, 2002). **Argentina** (Brancher *et al.*, 2012). **Turkey** (Doğanlar *et al.*, 2011). **Iran** (Sanei and Razavi, 2012).
- **Stereum birsutum** (Wood decay): **Spain** (Gonzalez-Andujar, 2009).
- **Stereum** sp. (Heart rot and wood decay): **Morocco** (Bremond, 1950). **Italy** (Viggiani, 1989). **Spain** (Fernandez Escobar *et al.*, 2013). **Iran** (Sanei and Razavi, 2012).
- **Stictis panizzei** (Parasitic ‘brusca’). **Italy** (Verona, 1950; Iannotta *et al.*, 2012b).
- **Thielaviopsis basicola** (Root rot): **Australia** (Spooner-Hart *et al.*, 2007).
- **Trametes versicolor** (twig and branches dieback): **California** (Úrbez-Torres *et al.*, 2013).
- **Trichoderma harzianum** (Fruit rot): **Iran** (Torbaty *et al.*, 2014).
- **Trichothecium roseum** (Fruit rot): **Iran** (Torbaty *et al.*, 2014).
- **Truncatella angustata** (Fruit rot): **Iran** (Arzanlou *et al.*, 2012; Torbaty *et al.*, 2014).
- **Ulocladium consortiale** (Cortical lesions on twigs): **Italy** (Lo Piccolo, 2013).
- **Ulocladium** sp.: (Fruit rots): **Iran** (Sanei and Razavi, 2012).
- **Verticillium albo-atrum** (Verticillium wilt): **California** (Snyder *et al.* 1950, Wilhelm and Taylor, 1965; Hartmann and Whisler, 1970; Schnathorst and Sibbett 1971a, 1971b). **Illinois** (Chen, 1994). **Italy** (Venturella, 1991). **Nevada** (Johnson *et al.*, 2000).
- **Verticillium dahliae** (Verticillium wilt): **Morocco** (Benjama, 1988; Serghini, 1992; Zeroual, 1994; Serghini and Zeroual, 1995; Cherrab *et al.*, 2000, 2002a, 2002b; Lachqer and Sedra, 1996, 2002; Lachqer *et al.*, 2002; Tantaoui *et al.*, 2002; Laouane *et al.*, 2011; Chliyah *et al.*, 2014b). **Jordan** (Manluk *et al.*, 1984; Masanat, 1986; Karajeh, 1997, 2006; Naser *et al.*, 1996; 1998; Karajeh and Al-Raddad, 1999; Abu-Qamar and Al-Raddad, 2001; Abu-Qamar and Al-Momany, 2002; Masoud, 2002; Hameed *et al.*, 2005; Al-Khatib, 2012). **Spain** (Caballero *et al.*, 1980, 1981; Jiménez Díaz, 1985; Blanco-Lopez *et al.*, 1984, 1994; 1998; Tawil *et al.*, 1991; Civantos and Caballero, 1993;

Rodríguez-Jurado *et al.*, 1993a, 1993b; Gallego-Álvarez, 1994 ; Blanco-López and Jiménez-Díaz, 1995; López-Escudero and Blanco-López , 1996, 1999, 2001, 2005a, 2005b, 2005c, 2007, 2011; Bejarano-Alcázar *et al.*, 1995, 1996, 1997, 2001, 2008 ; Jiménez-Díaz *et al.*, 1998, 2008, 2009a, 2009b ; Civantos, 1999; Rodríguez Morcillo *et al.*, 2000, 2002; Campos and Civantos, 2000; Rallo, 2000; Barranco *et al.*, 2000; Mercado-Blanco *et al.*, 2001, 2002, 2003a, 2003b, 2004; Martos-Moreno *et al.*, 2001, 2006; López-Escudero *et al.*, 2003, 2004, 2007a, 2007b, 2008a; 2008b, 2009a, 2009b, 2009c, 2010, 2012; Porrás-Soriano *et al.*, 2003; 2006; Martos-Moreno, 2003; Antoniou *et al.*, 2001, 2008; Cabeza and Bejarano, 2005; Morera, 2005; Anonymous, 2005; Raya-Ortega , 2005; Collado-Romero *et al.*, 2006; Rallo and Barranco, 2006; León *et al.*, 2007; Muller *et al.*, 2007; Baidez *et al.*, 2007 ; Navas-Cortés *et al.*, 2008 ; Navarro *et al.*, 2008 ; López-Escudero *et al.*, 2008c; Jiménez-Díaz *et al.*, 2008, 2011; Rodríguez *et al.*, 2008, 2009, 2011; Trapero *et al.*, 2009, 2011a, 2011b, 2013a, 2013b; Prieto *et al.* , 2009; Abo Shkeers, 2010; Gonzalez-Andujar, 2009; Castillo *et al.*, 2010; Aranda *et al.*, 2011a, 2011b; Mercado-Blanco and López-Escudero, 2012; Jiménez-Díaz, 2012; Mercado-Blanco, 2012; García-Cabello *et al.*, 2012; Lozano-Tovar *et al.*, 2013; Gramaje *et al.*, 2013; Calderón *et al.*, 2013 ; Lucena *et al.*, 2013; Fernandez Escobar *et al.*, 2013). **Greece** (Zachos, 1963 ; Thanassouloupoulos *et al.*, 1979, 1981; Petsikos-Panayotarou, 1980; Biris and Thanassouloupoulos, 1980; Thanassouloupoulos *et al.*, 1980; Tjamos *et al.*, 1985; Tjamos, 1987; Skoudridakis and Bourbos, 1989; Tjamos and Tsougriani, 1990; Tjamos *et al.*, 1991; Thanassouloupoulos, 1993; Tjamos, 1993; Pramateftaki *et al.*, 2000; Ligoigakis, 2000; Paplomatas *et al.*, 2001; Markakis *et al.*, 2006; 2009; 2010; Trapero *et al.*, 2009; Ligoigakis and Markakis, 2012 ; Polymnia *et al.*, 2013). **Italy** (Ruggieri, 1946 ; Cirulli, 1975, 1981; Bonifacio and Parrini, 1975; Cirulli and Montemurro, 1976 ; Viggiani, 1989; Ragazzi *et al.*, 1987; Cirio, 1992; Mesturno, 1990; Laviola, 1992 ; Pennisi *et al.*, 1993; Zazzerini and Tosi, 1994; Iannotta *et al.*, 1998, 1999; 2001, 2012b ; Ciccacese, 1998; Tosi and Zazzerini, 1998, 2000a; Cirulli *et al.*, 1998a, 1998b, 2008; 2009 ; Mesturino, 1990; Mule *et al.*, 2002; Nigro *et al.*, 2001, 2002, 2005; Fodale *et al.*, 2002; Schena *et al.*, 2002, 2004; Ciccacese *et al.*, 2002; Martelli *et al.*, 2002; Di Franco *et al.*, 2009; Lo Giudice *et al.*, 2010; Lamberti *et al.*, 2012; Campanile *et al.*, 2008; Colella *et al.*, 2008; Lima *et al.*, 2008; Kapulnik *et al.*, 2010; Bubici and Cirulli, 2010, 2012a, 2012b; Schilirò *et al.*, 2012 ; Agosteo, 2012; Yaseen *et al.*, 2012; ; Sanzani *et al.*, 2012; Ceccherini *et al.*, 2013). **Tunisia** (Ben Othman *et al.*, 1993; Boulila *et al.*, 1994; Boulila, 2001a, 2011; Triki *et al.*, 2006, 2011, 2012; Yangui *et al.*, 2010, Ben Salem *et al.*, 2011; Boughalleb-M'Hamdi *et al.*, 2011; Fhoula *et al.*, 2013, Vitullo *et al.*, 2013). **Algeria** (Benchabane, 1990; Maatalah *et al.*, 1996, 1997 ; Geiger *et al.*, 2000; Bellahcene *et al.*, 2000a, 2000b, 2001a, 2001b, 2005a , 2005b; Karajeh and Masoud, 2006); **Turkey** (Saydam and Copcu 1972 ; Azeri, 1993; Yolageldi *et al.*, 2003; Tunç *et al.*, 2004 ; Urmes, 2005; Anonymous, 2005; Göre, 2007; Dervis *et al.*, 2007, 2010, Erten and Yildiz, 2008, 2011; Yildiz and Benlioglu, 2010; Sesli *et al.*, 2010; Latife *et al.*, 2011). **Israel** (Bao *et al.*, 1998; Levin and Tsrer, 2002; Tsrer and Levin, 2003; Levin *et al.*, 2003a, 2003b, 2007; Dag *et al.*, 2008). **Syria** (Al-Ahmad, 1984, 1993; Ahmad *et al.*, 1988, 1992, 1997; Al-Ahmad and Mosli 1993). **Australia** (Morschel, 1961; Barbara, 2002; Spooner-Hart *et al.*, 2007; Sergeeva *et al.*, 2009; Sergeeva and R. Spooner-Hart, 2011 ; Hall *et al.*, 2012). **Iran** (Sanei *et al.*, 1996, 2003, 2004, 2005a, 2005b, 2010; Azadvar *et al.*, 2002; Afshari-Azad *et al.*, 2002; Saeezadeh *et al.*, 2003; Saremi *et al.*, 2006; Taheri *et al.*, 2008 ; Saeezadeh *et al.*, 2009a, 2009b; Zad *et al.*, 2010; Sanei and Razavi, 2011a, 2011b, 2011c ; Torbati *et al.*, 2014). **France** (Vigouroux 1975). **Malta** (Porta-Puglia and Mifsud, 2005). **California** (Wilhelm *et al.*, 1962; Wilhelm and Taylor, 1965; Hartman *et al.*, 1971; Wilhelm *et al.*, 1974, Puhalla and Hummel, 1983; Bhat and Subbarao, 1991; Sibbet and Fuguson, 2005; Krueger and Vossen, 2007; Vossen *et al.*, 2007, 2008; Fichtner and DeBuse, 2011; Úrbez-Torres *et al.*, 2013). **Egypt** (Hegazi *et al.*, 2012). **Lebanon** (Makhlouf Geagea, 2005). **Portugal** (Gouveia *et al.*, 2000 ; Gouveia and Coelho, 2007; Martins *et al.*, 2013); **Iraq** (Al Taae and Al Taae, 2008; Harbi *et al.*, 2012). **Argentina** (Nicolini and Traversi, 1950; Otero *et al.*, 2004; Pérez *et al.*, 2006; Brancher *et al.*, 2012 ; Oriolani *et al.*, 2012). **Montenegro** (Latinovic and Vucinic, 2010).

Several Olive tree diseases were encountered in twelve countries in Europe, the majority of In Europe, the majority of The olive tree pathogen were encountered in Italy (55 species), followed by Spain (46 species) and Greece (24).

In Africa, Fourteen olive tree pathogens were encountered in Tunisia, followed by Morocco and Egypt with ten fungal species. The lowest number of the olive tree was encountered in South Africa.

In the Middle East, Iranian authors have cited the majority of the olive tree diseases. Thus, 41 fungal species were responsible for several symptoms on different parts of the olive plants. 8 pathogens were encountered in Jordan, followed by Israel with 6 fungal species and one fungal species was detected for each of Lebanon (*Verticillium* wilt), Iraq (*Verticillium* wilt) and Palestine (Leaf spot).

In America, 31 olive tree pathogens were encountered in United States of America, followed by Argentina (17 species) and only one disease was detected in Mexico, Chile, Brazil and Colombia.

Australia has detected the majority of the olive tree pathogens (15 diseases) compared to Asia and New Zealand.

The European continent has cited 83 olive tree diseases, followed by the Middle east (42 diseases), America (40 fungal pathogens), Africa (22 diseases) and only six olive pathogen were encountered in Asia.

CONCLUSION

On hundred and twenty-four fungal species were pathogen to the olive tree; some of them were obligate parasites and others were primary or secondary invaders. As the same, many authors considered some species as saprophytes and parasites at the same times depending to several conditions (temperature, sensitivity of the host, and viability of the species....).

All the pathogens described above represent a real threat to olive cultivation especially *Verticillium* wilt caused especially by *Verticillium dahliae* and olive leaf spot or the peacock spot caused by *Fusicladium oleagineum* were the most common diseases in the world olive cultures.

From this list of 124 fungal pathogens, only 10 pathogen, were encountered in Morocco meaning that several works must be done to detect different diseases and to protect against them.

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