

Supporting Information

The table presents the consulted references for selected hosts (focal species included) and their shared pathogens. Check-lists and pathogen surveys were included for all considered pathogens (specialists and generalists). Specialist pathogens on *Buxus sempervirens*, *Thuja occidentalis* and *Prunus laurocerasus* with their corresponding references are presented separately within the table.

Table 1 Pathogens and hosts presented in the bipartite network – references

Listed hosts for the analysed pathogens	References
Pathogens on <i>Buxus sempervirens</i> , <i>Thuja occidentalis</i> , <i>Prunus laurocerasus</i> , <i>Abies alba</i> , <i>Acer pseudoplatanus</i> , <i>Aesculus hippocastanum</i> , <i>Celtis australis</i> , <i>Cerasus avium</i> , <i>Fagus sylvatica</i> , <i>Fraxinus excelsior</i> , <i>Ilex sp.</i> , <i>Picea abies</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Q. petraea</i> , <i>Rosa canina</i> , <i>Salix sp.</i> , <i>Syringa vulgaris</i> , <i>Vitis, sp.</i> , <i>Prunus lusitanica</i> , <i>Magnolia spp.</i> , <i>Viburnum spp.</i> , <i>Salix capraea</i> , <i>Quercus ilex</i> , <i>Prunus padus</i> , <i>Prunus amygdalus</i> , <i>Rhododendron spp.</i> , <i>Taxus spp.</i> , <i>Pinus spp.</i>	Moore 1959, Funk 1974, Vegh 1987, Smith et al. 1998, Hodges & Peterson 1989, Venturella 1991, Erwin & Ribeiro 1996, Mititiuc & Iacob 1997, Fernando et al. 1999, Alford 2000, Crepel & Inghelbrecht 2002, Brasier et al 2003, Butin 2003, Chira et al. 2005, Shishkoff 2007, Vasaitis et al. 2008, Orlikowski et al. 2009, Baietto & Wilson 2010, Bernadovičová & Ivanová 2011, Ghobad – Nehjad 2011, Keča, & Solheim 2011, Schlenzig et al. 2011, Garbaletto & Gonthier 2013, Green et al. 2013, Luongo et al. 2013, Phillips et al. 2013, Quaglia et al. 2014
Listed pathogens (specialized pathogens linked to <i>Prunus laurocerasus</i> , <i>Buxus sempervirens</i> and <i>Thuja occidentalis</i>)	References
<i>Cylindrocladium buxicola</i>	Henricot et al. 2000, Saracchi et al. 2008, Šafránková et al. 2012
<i>Volutella buxi</i>	Hsiang 2012
<i>Xanthomonas arboricola</i> var. <i>pruni</i>	Tjou et al. 2012
<i>Pestalotiopsis funerea</i>	Bajo et al. 2008, Maharachchikumbura et al. 2011, Ozan et al. 2012
<i>Trochila lurocerasi</i>	Gregor 1936
<i>Peronospora sparsa</i>	Hall et al. 1992
<i>Puccinia buxi</i>	Preece 2000
<i>Passalora sequoiae</i>	Seifert & Gams 2011
<i>Lepteutypa cupressi</i>	Sinclair et al. 2005
<i>Cyanonectria buxi</i>	Schroers et al. 2011
<i>Candidatus Phytoplasma Prunorum</i>	Marcone et al. 2010, Sullivan 2013
<i>Pseudomonas syringae</i> var <i>syringae</i> / <i>P. syringae</i> var. <i>mors-prunorum</i>	Kenelly et al.2007
<i>Didymascella thujina</i>	Minter 1997
<i>Apiogonomonium erythrostoma</i>	Smith et al. 1988
<i>Gibellula pulchra</i>	Selçuk et al. 2004
<i>Chloroscypha seaveri</i>	Petrini & Carroll 1981
<i>Pythium helicoides</i>	Grand & Vernia 2004
<i>Rosellinia buxi</i>	Petrini 1977

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