

Table S1: Common pathogens causing root and butt rot on pines in European forest stands

Pathogen name	Country of detection	Host species	References
<b><i>Armillaria</i> (Fr.) Staude</b>	Poland, Russia, Spain, United Kingdom	<i>Pinus</i> spp., <i>P. contorta</i> , <i>P. nigra</i> , <i>P. radiata</i> , <i>P. sylvestris</i>	1, 2, 3, 4, 5, 6
<b><i>Armillaria borealis</i> Marxm. &amp; Korhonen</b>	France, Switzerland	<i>P. mugo</i>	7
<b><i>Armillaria cepistipes</i> Velen.</b>	Switzerland, Greece	<i>P. mugo</i> , <i>P. halepensis</i> , <i>P. sylvestris</i> , <i>Pinus nigra</i> , <i>Pinus pinaster</i>	7, 8
<b><i>Armillaria gallica</i> Marxm.</b>	Greece	<i>P. halepensis</i> , <i>P. sylvestris</i> , <i>P. nigra</i> , <i>P. pinaster</i>	8, 9
<b><i>Armillaria mellea</i> (Vahl) P. Kumm.</b>	Bulgaria, France, Germany, Greece, Lithuania, Ukraine	<i>P. sylvestris</i> , <i>P. cembra</i> , <i>P. monticola</i> , <i>P. mugo</i> , <i>P. nigra</i> , <i>P. pinaster</i> , <i>P. strobus</i> , <i>P. griffithi</i>	10, 11, 12, 13, 14, 15, 16
<b><i>Armillaria ostoyae</i> (Romagn.) Herink</b>	France, Germany, Greece, Poland, Romania, Switzerland	<i>P. halepensis</i> , <i>P. sylvestris</i> , <i>P. mugo</i> , <i>P. nigra</i> , <i>P. pinaster</i>	8, 9, 17, 18, 19, 20, 21
<b><i>Armillaria tabescens</i> (Scop.) Emel</b>	Greece	<i>P. nigra</i>	9
<b><i>Botryotinia fuckeliana</i> (de Bary) Whetzel</b>	Ukraine	<i>P. sylvestris</i>	22
<b><i>Abortiporus borealis</i> (Fr.) Singer</b>	Russia	<i>Pinus</i> spp.	23

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<b><i>Fomitopsis pinicola</i> (Sw.) P. Karst.</b>	Russia, Spain, Ukraine	<i>Pinus</i> spp., <i>P. sylvestris</i>	6, 4, 22
<b><i>Fomitopsis officinalis</i> (Batsch) Bondartsev &amp; Singer</b>	Russia	<i>Pinus</i> spp.	23
<b><i>Fusarium compactum</i> (Wollenw.) W.L. Gordon</b>	Israel	<i>P. brutia</i> , <i>P. canariensis</i> , <i>P. halepensis</i> , <i>P. maritima</i> , <i>P. pinea</i>	24
<b><i>Fusarium equiseti</i> (Corda) Sacc.</b>	Israel	<i>P. pinea</i>	25
<b><i>Fusarium oxysporum</i> Schltdl.</b>	Lithuania, Spain, Ukraine	<i>P. radiata</i> , <i>P. pinaster</i> , <i>P. sylvestris</i> , <i>P. nigra</i> , <i>P. halepensis</i> , <i>P. mugo</i> ,	22, 26, 27
<b><i>Fusarium</i> Link</b>	Germany	<i>P. sylvestris</i>	28
<b><i>Fusarium verticillioides</i> (Sacc.) Nirenberg</b>	Spain	<i>P. sylvestris</i>	29
<b><i>Heterobasidion annosum</i> (Fr.) Bref.</b>	Bulgaria, Finland, France, Germany, Greece, Italy, Ireland, Lithuania, Macedonia, Poland, Portugal, Romania, Russia, Spain, Switzerland, Ukraine, United	<i>Pinus</i> spp., <i>P. pinaster</i> , <i>Chamaecyparis lawsoniana</i> , <i>P. radiata</i> , <i>P. nigra</i> , <i>P. sylvestris</i> , <i>Pseudotsuga menziesii</i> , <i>Picea abies</i> , <i>P. halepensis</i> , <i>P. pinea</i> , <i>Pinus nigra larici</i> , <i>P. cembra</i> , <i>P. peuce</i> , <i>Pinus mugo</i> , <i>P. contorta</i>	30, 31, 32, 33, 34, 35, 36, 37, 11, 38, 39, 40, 41, 7, 20, 42, 43, 44, 45, 46, 1, 47, 48, 49, 50, 34, 10, 23, 51, 52, 53

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Kingdom			
<b><i>Heterobasidion irregulare</i></b> Garbelotto & Orosina	Italy	<i>P. pinea</i>	54, 55
<b><i>Heterobasidion parviporum</i></b> Niemi & Korhonen	Italy	<i>P. cembra</i>	35
<b><i>Heterobasidion</i> Bref.</b>	Denmark, Poland, Sweden,	<i>P. sylvestris</i> , <i>P. contorta</i>	3, 56, 57, 58
<b><i>Onnia triquetra</i> (Pers.) Imazeki</b>	Russia	<i>Pinus</i> spp.	59
<b><i>Pestalotia hartigii</i> Tubeuf</b>	Ukraine	<i>P. sylvestris</i>	60
<b><i>Phaeolus schweinitzii</i> (Fr.) Pat.</b>	Macedonia, Russia	<i>Pinus</i> spp., <i>P. peuce</i>	51, 23
<b><i>Phellinus pini</i> (Brot.) A. Ames</b>	Romania, Russia, Spain, Ukraine	<i>Pinus</i> spp., <i>P. sylvestris</i>	4, 23, 61, 15
<b><i>Phellinus hartigii</i> (Allesch. &amp; Schnabl) Pat.</b>	Russia	<i>Pinus</i> spp.	23
<b><i>Phlebiopsis gigantea</i> (Fr.) Jülich</b>	Romania	<i>P. nigra</i> , <i>P. sylvestris</i>	47

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<b><i>Pholiota adiposa</i> (Batsch) P. Kumm.</b>	Russia	<i>Pinus</i> spp.	6
<b><i>Phoma macrostoma</i> Mont.</b>	Ukraine	<i>P. sylvestris</i>	22
<b><i>Phomopsis</i> (Sacc.) Sacc.</b>	Ukraine	<i>P. sylvestris</i>	22
<b><i>Phytophthora cactorum</i> (Lebert &amp; Cohn) J. Schröt.</b>	Germany	<i>P. ponderosa</i> , <i>P. strobus</i> , <i>P. sylvestris</i>	62, 63
<b><i>Phytophthora cinnamomi</i> Rands</b>	Italy	<i>P. halepensis</i> , <i>P. pinaster</i> <i>P. pinea</i>	63
<b><i>Phytophthora cryptogea</i> Pethybr. &amp; Laff.</b>	Italy	<i>P. radiata</i>	64
<b><i>Phytophthora humicola</i> W.H. Ko &amp; Ann</b>	Italy	<i>P. pinea</i>	65
<b><i>Phytophthora plurivora</i> T. Jung &amp; T.I. Burgess</b>	Germany	<i>P. sylvestris</i>	66, 63
<b><i>Porodaedalea pini</i> (Brot.) Murrill</b>	Poland	<i>P. sylvestris</i>	67
<b><i>Pythium</i> Pringsh.</b>	Ukraine	<i>P. sylvestris</i>	60

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<b><i>Rhizina undulata</i> Fr.</b>	Lithuania, Ukraine	<i>P. mugo, P. sylvestris</i>	68, 14, 69
<b><i>Rhizoctonia solani</i> J.G. Kühn</b>	Ukraine	<i>P. sylvestris</i>	60
<b><i>Rhizosphaera kalkhoffii</i> Bubák</b>	Ukraine	<i>P. sylvestris</i>	60
<b><i>Trichoderma viride</i> Pers.</b>	Italy	<i>P. nigra</i>	70
<b><i>Truncatella hartigii</i> (Tubeuf) Steyaert</b>	Ukraine	<i>P. sylvestris</i>	22

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