

SUPPLEMENTARY INFORMATION

Table S1. *Penicillium* strains used in the study of the infrageneric classification (addition to those mentioned in Table 1).

Name	Collection no.	Origin	GenBank accession no.
<i>Aspergillus crystallinus</i>	NRRL 5082 ^{NT} = CBS 479.65 = ATCC 16833 = IMI 139270	Forest soil, Costa Rica	EF669669 ^{RPB2}
<i>Aspergillus malodoratus</i>	NRRL 5083 ^{NT} = CBS 490.65 = IMI 172289 = ATCC 16834	Forest soil, Costa Rica	EF669672 ^{RPB2}
<i>Aspergillus paradoxus</i>	NRRL 2162 ^{HT} = ATCC 16918 = IMI 061446	Holotype of <i>Hemicarpenales paradoxus</i> ; dung of opossum, Wellington, New-Zealand	EF669670 ^{RPB2}
	NRRL 4695 = IMI 086829	Unknown source, India	EF669671 ^{RPB2}
<i>Eladia infata</i>	CBS 127833 ^{HT}	Soil, Sichuan Prov., Kangding County, China	JN406643 ^{RPB2}
<i>P. abidjanum</i>	CBS 246.67 ^{HT} = ATCC 18385 = IMI 136244	Savannah soil, Ivory Coast	GU981650 ^{BT}
<i>P. adametzioides</i>	CBS 313.59 ^T = ATCC 18306 = IMI 068227 = NRRL 3405	Soil, Japan	JN406578 ^{RPB2}
<i>P. aethiopicum</i>	CBS 484.84 ^{HT} = FRR 2942 = IBT 21501 = IBT 5903 = IMI 285524	Grain of <i>Hordeum vulgare</i> , Addis Abeba, Ethiopia	JN406548 ^{RPB2}
<i>P. alicantinum</i>	NRRL 35755	Unknown source	EU427254 ^{RPB2}
<i>P. anatolicum</i>	CBS 479.66 ^{HT} = IBT 30764	Soil, Turkey	JN606593 ^{RPB2}
<i>P. angulare</i>	CBS 130293 ^T = IBT 27051 = NRRL 28157	Old polypore, New Mexico, USA	JN406554 ^{RPB2}
<i>P. angustipurcatum</i>	CBS 202.84 ^{HT} = NHL 6481	Forest soil, Gandaki, near Nandanda, Nepal	JN406617 ^{RPB2}
<i>P. antarcticum</i>	CBS 100492 ^T = FRR 4989	Soil scraping, near nest site of Southern Fulmar Ardery Island, Windmill Islands, Wilkes Land, Antarctica	JN406653 ^{RPB2}
<i>P. araracuarensis</i>	CBS 113149 ^T = IBT 23247	Leaf litter exposed for 6 months, 36-year old forest, Araracuara, Colombia	GU981642 ^{BT}
<i>P. ardesiacum</i>	CBS 497.73 ^{NT} = ATCC 24719 = IMI 174719	Soil near <i>Vitis vinifera</i> , Alma-Ata Region, Kazakhstan	JN406547 ^{RPB2}
<i>P. asperosporum</i>	CBS 324.83 = IMI 080450	Holotype of <i>P. echinosporum</i> ; resin of <i>Eucalyptus tereticornis</i> , Prov. Guizhon, Guiyang, China	JN406574 ^{RPB2}
<i>P. astrolabium</i>	CBS 122427 ^T = NRRL 35611	Wine grapes, Portugal	JN406634 ^{RPB2}
<i>P. atramentosum</i>	CBS 291.48 ^{NT} = ATCC 10104 = IBT 6616 = IMI 039752 = IMI 039752ii = MUCL 29071 = MUCL 29126 = NRRL 795	French Camembert cheese, Storrs, Connecticut, USA	JN406584 ^{RPB2}
<i>P. atrofulvum</i>	CBS 109.66 ^T = IBT 30032	Soil, Katanga, Zaire	JN606620 ^{RPB2}
<i>P. atrosanguineum</i>	CBS 380.75 ^{soT} = FRR 1726 = IMI 197488	Grain in silo <i>Triticum aestivum</i> , Praha, Czech Republic	JN406557 ^{RPB2}
<i>P. aurantiogriseum</i>	CBS 324.89 ^{NT} = ATCC 48920 = IBT 14016 = IMI 195050 = MUCL 29090 = NRRL 971	Unrecorded source	JN406573 ^{RPB2}
<i>P. bialowiezense</i>	CBS 227.28 ^T = IBT 23044 = IMI 092237	Soil under conifers, Bialowiezka Puszcza, Poland	JN406604 ^{RPB2}
<i>P. bilaiae</i>	CBS 221.66 ^{NT} = ATCC 22348 = ATCC 48731 = IJFM 5025 = IMI 113677 = MUCL 31187	Soil, Kiev, Ukraine	JN406610 ^{RPB2}
<i>P. boreae</i>	CBS 111717 = NRRL 31002	Petroleum contaminated soil, near Norman Wells, Northwest-Territories, Canada	JN617715 ^{BT}
<i>P. bovismosum</i>	CBS 102825 ^T = RMF 9598	Dry cow manure, Wyoming, USA	JN406649 ^{RPB2}
<i>P. brasilianum</i>	CBS 253.55 ^{HT} = ATCC 12072 = FRR 3466	Herbarium specimen, Recife, Brazil	GU981629 ^{BT}
<i>P. brefeldianum</i>	CBS 235.81 ^T = IFO 31731 = IMI 216896 = NRRL 710	Type of <i>P. brefeldianum</i> and <i>P. dodgei</i> ; human alimentary tract	GU981623 ^{BT}
<i>P. brevicompactum</i>	CBS 257.29 ^{NT} = ATCC 10418 = ATCC 9056 = IBT 23045 = IMI 040225 = MUCL 28647 = MUCL 28813 = MUCL 28935 = MUCL 30240 = MUCL 30241 = MUCL 30256 = MUCL 30257 = NRRL 2011 = NRRL 862 = NRRL 864	Unrecorded source, Belgium	JN406594 ^{RPB2}
<i>P. brevissimum</i>	CBS 763.68 ^T	Mixed cereal feed for birds, Lucknow, India	JN406534 ^{RPB2}
<i>P. brevistipitatum</i>	CBS 122277 ^T = AS 3.6887	Soil, China	JN406528 ^{RPB2}
<i>P. brocae</i>	CBS 116113 ^{HT} = IBT 26293 = NRRL 31472	Faeces of coffee berry borer, Chiapas, Tapachula, Mexico	JN406639 ^{RPB2}
<i>P. burgense</i>	CBS 325.89 ^T	Uncultivated soil, Highlands north of Burgos, Spain	JN406572 ^{RPB2}
<i>P. canariense</i>	CBS 111720 ^{HT} = NRRL 31003	Soil, Canary Islands, Spain	JN617714 ^{BT}
<i>P. caperatum</i>	CBS 233.81 = IFO 31730 = IMI 216895	Neotype of <i>E. brefeldianum</i> fide Pitt (1979, p. 119); soil, Murrumbidgee Irrigation Area, NSW, Australia	GU981659 ^{BT}

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Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. caperatum</i>	CBS 443.75 ^T = ATCC 28046	Soil, Papua New Guinea	GU981660 ^{BT}
<i>P. capsulatum</i>	CBS 301.48 ^{NT} = ATCC 10420 = IJFM 5120 = IMI 040576 = NRRL 2056	Optical instrument, Canal Zone, Panama	JN406582 ^{RPB2}
<i>P. carneum</i>	CBS 112297 ^T = IBT 6884	Mouldy rye bread, Denmark	JN406642 ^{RPB2}
<i>P. chalybeum</i>	CBS 255.87 = FRR 2658 = IMI 288722	Dried fish, <i>Decapterus</i> sp., Indonesia	JN406596 ^{RPB2}
<i>P. charlesii</i>	CBS 326.59 = ATCC 18225 = IMI 068223	Type of <i>Penicillium decumbens</i> var. <i>atrovirens</i> and <i>P. atrovirens</i> ; soil, Japan	JN406571 ^{RPB2}
<i>P. charlesii</i>	CBS 330.59 = IMI 068224 = MUCL 15638	Type of <i>P. fellutanum</i> var. <i>nigrocastaneum</i> ; soil, Japan	JN406570 ^{RPB2}
<i>P. 'chermesinum'</i>	CBS 305.48 = ATCC 10424 = IMI 040577 = NRRL 2049	Air, Panama	JN406581 ^{RPB2}
	CBS 231.81 = IMI 191730 = NRRL 2048	Neotype of <i>P. chermesinum sensu</i> Pitt; deteriorating military equipment Florida, USA	JN406600 ^{RPB2}
<i>P. christensenae</i>	CBS 126236 ^T = IBT 23355	Soil in native forest, "Lowland forest" east / north east side of Costa Rica about 30 km inland from Limon and the Caribbean.	JN606624 ^{RPB2}
<i>P. chrzaszczii</i>	CBS 217.28 ^T = MUCL 29167 = NRRL 903 = NRRL 1741 = IBT 18226 = IBT 11222 = IBT 16409	Woodland soil, Puszcza Bialowieska Forest, Poland	JN606628 ^{RPB2}
<i>P. cieglerei</i>	CBS 275.83 ^T = IMI 257691	Rye grain, Spain	GU981671 ^{BT}
<i>P. cinereoatrum</i>	CBS 222.66 ^{soT} = ATCC 22350 = IJFM 5024 = IMI 113676	Forest soil, Kiev, Ukraine	JN406608 ^{RPB2}
<i>P. cinnamopurpureum</i>	CBS 847.68 ^T = ATCC 18489 = CBS 429.65	Milled rice, Japan	JN406533 ^{RPB2}
<i>P. citreonigrum</i>	NRRL 1187 = IMI 092212 = MUCL 29230 = MUCL 29783 = NRRL 1187	Type of <i>P. citreoviride</i> ; unknown source	EF198501 ^{RPB2}
	NRRL 2046 = CBS 308.48 = ATCC 10425 = IMI 40575 = NRRL 2046	Deteriorating military equipment, Florida, USA	EF198502 ^{RPB2}
<i>P. coeruleum</i>	CBS 141.45 = NCTC 6595	As <i>Citreomyces coeruleus</i> ; unknown source	GU981655 ^{BT}
<i>P. commune</i>	NRRL 35686	Unknown source	EF198602 ^{RPB2}
<i>P. confertum</i>	CBS 171.87 ^{HT} = IBT 21515 = IBT 3098 = IBT 5672 = IMI 296930 = NRRL 13488 = NRRL A-26904	Cheek pouch of <i>Dipodomys spectabilis</i> , Arizona, USA	JN406622 ^{RPB2}
<i>P. coprophilum</i>	CBS 110760 = IBT 5551	Rabbit dung, Baarn, Netherlands	JN406645 ^{RPB2}
<i>P. copticola</i>	CBS 127355 ^T = IBT 30771	Tortilla, USA	JN606599 ^{RPB2}
<i>P. coralligerum</i>	CBS 123.65 ^{NT} = ATCC 16968 = FRR 3465 = IMI 099159 = NRRL 3465	Seed of <i>Hordeum vulgare</i> (barley), France	JN406632 ^{RPB2}
<i>P. corylophilum</i>	CBS 330.79 = IJFM 5147	Authentic strain of <i>P. citreovirens</i> Abe ex. Ramirez; air, Barcelona, Spain	JN406569 ^{RPB2}
<i>P. corynephorum</i>	CBS 256.87 ^T = FRR 2663 = IMI 288724	Dried fish, <i>Decapterus</i> sp., Indonesia	JN406595 ^{RPB2}
<i>P. cremeogriseum</i>	CBS 223.66 ^{NT} = ATCC 18323 = IJFM 5011 = IMI 197492 = NRRL 3389	Forest soil, Kiev, Ukraine	GU981624 ^{BT}
<i>P. crocicola</i>	CBS 745.70 ^{soT} = ATCC 18313	<i>Crocus sativus</i> (Saffron), Japan	JN406535 ^{RPB2}
<i>P. cyaneum</i>	CBS 315.48 ^{NT} = ATCC 10432 = IMI 039744 = NRRL 775	Unrecorded source, France	JN406575 ^{RPB2}
<i>P. daleae</i>	CBS 211.28 ^T = ATCC 10435 = IFO 6087 = IFO 9072 = IMI 034910 = MUCL 29234 = NRRL 2025	Soil under conifer, Poland	GU981649 ^{BT}
<i>P. decaturense</i>	CBS 117509 ^T = IBT 27117 = NRRL 28152	Old resupinate fungus, Ramsey Lake State Park, Decatur, Illinois, USA	JN606621 ^{RPB2}
<i>P. decumbens</i>	CBS 230.81 ^{NT} = IMI 190875 = MUCL 29107 = NRRL 741	Unrecorded source, Miami, Florida, USA	JN406601 ^{RPB2}
<i>P. dierckxii</i>	CBS 185.81 ^{NT} = IMI 092216 = MUCL 28665 = NRRL 755	Unknown source, Belgium	JN406619 ^{RPB2}
<i>P. donkii</i>	CBS 188.72 ^{HT} = ATCC 48439; = IFO 31746 = IMI 197489 = MUCL 31188	Arable soil, Alaska, USA	JN617718 ^{BT}
<i>P. echinulonalgiovense</i>	CBS 328.59 ^T = ATCC 18314 = IFO 6229 = IMI 068213	Soil, Japan	GU981631 ^{BT}
<i>P. egyptiacum</i>	CBS 244.32 ^{NT} = ATCC 10441 = IBT 14684 = IMI 040580 = NRRL 2090	Soil, Cairo, Egypt	JN406598 ^{RPB2}

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Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. ehrlichii</i>	CBS 324.48 ^{HT} = ATCC 10442 = IMI 039737 = NRRL 708	Poland	GU981652 ^{BT}
<i>P. elleniae</i>	CBS 118135 ^T = IBT 23229	Leaf litter exposed for 6 months, mature forest, Araracuara, Colombia	GU981663 ^{BT}
<i>P. fagi</i>	CBS 689.77 ^T = CCM F-696 = IJFM 3049 = IMI 253806	Fallen leaf, on Andosol, alt. 800 m. <i>Fagus sylvatica</i> , Navarra, Spain	JN406540 ^{RPB2}
<i>P. fellutanum</i>	IBT 15460 ^{NT} = NRRL 746 = IMI 39734 = ATCC 10443	Unrecorded source, USA	JN406646 ^{RPB2}
<i>P. fennelliae</i>	CBS 711.68 ^{HT} = ATCC 22050 = ATCC 52492 = IMI 151747 = MUCL 31322	Flour, Zaire	JN406536 ^{RPB2}
<i>P. flavigenum</i>	CBS 419.89 ^{HT} = IBT 21526 = IBT 3091 = IMI 293207	Rhizosphere soil of <i>Brassica campestris</i> var. <i>toria</i> , Lyngby, Denmark	JN406551 ^{RPB2}
<i>P. formosanum</i>	CBS 211.92 ^{HT} = IBT 19748 = IBT 21527	Soil, Hsitou, Taiwan	JN406615 ^{RPB2}
<i>P. fuscum</i>	CBS 235.60 = ATCC 18483 CBS 309.63 = ATCC 18322	Type of <i>P. silvaticum</i> ; forest soil, USSR Type of <i>P. macedonense</i> ; forest soil, former Yugoslavia, Macedonia	JN406599 ^{RPB2} JN406580 ^{RPB2}
<i>P. gallaicum</i>	CBS 167.81 ^T = ATCC 42232 = IMI 253794 = IBT 22016	Air, Madrid, Spain	JN606609 ^{RPB2}
<i>P. glabrum</i>	CBS 105.11 CBS 229.28 = IMI 092231 = MUCL 29111 = NRRL 751 NRRL 35684	Type of <i>P. frequentans</i> , unknown substrate, former West-Germany, Germany Type of <i>P. paczoskii</i> ; soil, under conifer Poland Boiled cork, Portugal	JN406647 ^{RPB2} JN406602 ^{RPB2} EF198601 ^{RPB2}
<i>P. gladioli</i>	CBS 332.48 ^{NT} = ATCC 10448 = IBT 14772 = IMI 034911 = IMI 034911ii = MUCL 29174 = NRRL 939	<i>Gladiolus</i> corm, imported from the Netherlands, Washington DC, District of Columbia, USA	JN406567 ^{RPB2}
<i>P. glandicola</i>	CBS 498.75 ^{EpT} = IBT 21529 = IMI 154241	Corm, Portugal	JN406546 ^{RPB2}
<i>P. godlewskii</i>	CBS 215.28 ^T = ATCC 10449 = ATCC 48714 IFO 7724 = IMI 040591 = MUCL 29243 = NRRL 2111	Soil under pine, Bialowieska, Poland	JN606626 ^{RPB2}
<i>P. gorlenkoanum</i>	CBS 408.69 ^{soT} = IMI 140339	Soil, Syria	JN606601 ^{RPB2}
<i>P. heteromorphum</i>	CBS 226.89 ^{NT}	Soil, Hubei Province, Shennongjia, China	JN406605 ^{RPB2}
<i>P. hetheringtonii</i>	CBS 122392 ^T	Soil, Treasure Island, Florida, USA	JN606606 ^{RPB2}
<i>P. hirayamae</i>	NRRL 143 ^{NT} = CBS 527.65 = 229.60 = ATCC 18312 = IMI 078255 = IMI 078255ii = NRRL 143	Milled rice, Thailand	EU021625 ^{RPB2}
<i>P. hirsutum</i>	CBS 135.41 ^T = ATCC 10429 = IBT 21531 = IMI 040213 = MUCL 15622 = NRRL 2032	Aphid, green fly, Baarn, Netherlands	JN406629 ^{RPB2}
<i>P. hispanicum</i>	CBS 184.81 = FRR 2061 = IMI 190235 = NRRL 2061 CBS 691.77 ^T = ATCC 38667 = IJFM 3223 = IMI 253785	Neotype of <i>P. implicatum sensu</i> Pitt; soil, New Delhi, India <i>Citrus limonium</i> , Madrid, Spain	JN406620 ^{RPB2} JN406539 ^{RPB2}
<i>P. incoloratum</i>	CBS 101753 ^{HT} = AS 3.4672	Seed of <i>Phaseolus angularis</i> , Beijing, China	JN406651 ^{RPB2}
<i>P. indicum</i>	CBS 115.63 ^{soT} = ATCC 18324 = FRR 3387 = IMI 166620	Sputum, man, Delhi, India	JN406640 ^{RPB2}
<i>P. jamesonlandense</i>	CBS 102888 ^T = DAOM 234087 = IBT 21984 = IBT 24411	Soil near <i>Cassiope tetragona</i> and <i>Phyllodoce coerulea</i> , East Greenland, Jameson Land near Hugin Lake, Greenland	JN406648 ^{RPB2}
<i>P. janczewskii</i>	CBS 221.28 ^{NT} = IMI 191499 = NRRL 919	Soil under <i>Pinus</i> sp., Poland	JN406612 ^{RPB2}
<i>P. janthinellum</i>	CBS 340.48 ^{NT} = ATCC 10455 = IMI 040238 = NRRL 2016	Soil, Nicaragua	GU981625 ^{BT}
<i>P. javanicum</i>	CBS 341.48 ^{HT} = ATCC 9099 = IFO 31735 = IMI 039733 = MUCL 29099 = NRRL 707	Root of <i>Camellia sinensis</i> , Indonesia, Java	GU981657 ^{BT}
<i>P. jensenii</i>	CBS 216.28 ^T = ATCC 10456 = IMI 068233 = NRRL 3431	Forest soil, Poland	JN406614 ^{RPB2}
<i>P. jugoslavicum</i>	CBS 192.87 ^{NT} = IJFM 7785 = IMI 314508	Seed of <i>Helianthus annuus</i> (sunflower), former Yugoslavia	JN406618 ^{RPB2}
<i>P. kojigenum</i>	CBS 345.61 ^T = ATCC 18227 = IMI 086562 = MUCL 2457 = NRRL 3442	Roadside soil, Kirkcudbrightshire, Gelston, Scotland	JN406564 ^{RPB2}

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Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. levitum</i>	CBS 345.48 ^{NT} = ATCC 10464 = IFO 6101 = IMI 039735 = NRRL 705	Modeling clay, USA	GU981654 ^{BT}
<i>P. limosum</i>	CBS 339.97	Marine sediment, Nagasaki prefecture, Japan	GU981621 ^{BT}
<i>P. lineolatum</i>	CBS 188.77 ^{HT} = NHL 2776	Soil from copse, Japan	GU981620 ^{BT}
<i>P. lividum</i>	CBS 347.48 ^{NT} = ATCC 10102 = IMI 039736 = NRRL 754	Soil, Scotland	JN406563 ^{RPB2}
<i>P. luteocoeruleum</i>	CBS 347.51 ^T = ATCC 18237 = IMI 107651 = NRRL 3450	Wakamoto corn and rice cake, Nehira, Osaka Univ. Fac. Techn., Japan	JN406562 ^{RPB2}
<i>P. luzoniacum</i>	CBS 622.72 ^{ISO} T = DSM 2418 = NHL 6128	Soil from pine forest, Luzon Island, Sinipsip near Baguio, Philippines	JN406543 ^{RPB2}
<i>P. madriti</i>	CBS 347.61 ^{HT} = ATCC 18233 = IMI 086563 = MUCL 2456 = MUCL 31193 = NRRL 3452	Garden soil, Madrid, Spain	JN406561 ^{RPB2}
	CBS 170.81 = ATCC 42229 = IJFM 5144 = IMI 253791	Type of <i>P. castellanense</i> ; air, Madrid, Spain	JN406623 ^{RPB2}
<i>P. malacaense</i>	CBS 160.81 ^T = ATCC 42241 = IJFM 7093 = IMI 253801	Air, Madrid, Spain	JN406626 ^{RPB2}
	CBS 163.81 = ATCC 42237 = IJFM 7029	Type of <i>P. ovetense</i> ; sandy soil, Madrid, Spain	JN406624 ^{RPB2}
<i>P. manginii</i>	CBS 253.31 ^{NT} = NRRL 2134 = IMI 191732 = IBT 18224	Soil, unknown source	JN606618 ^{RPB2}
<i>P. mariaecrucis</i>	CBS 271.83 ^T = IMI 256075	<i>Secale cereale</i> , Spain	GU981630 ^{BT}
<i>P. melanoconidium</i>	CBS 641.95 = IBT 11406 = IBT 21534	Soil, Denmark	JN406529 ^{RPB2}
<i>P. melinii</i>	CBS 218.30 ^{NT} = ATCC 10469 = IMI 040216 = MUCL 29235 = NRRL 2041	Forest soil, USA	JN406613 ^{RPB2}
	CBS 280.58 = ATCC 18383 = IMI 071624 = NRRL 2672	Type of <i>P. radulatum</i> ; Calluna heathland soil, England	JN406586 ^{RPB2}
<i>P. meloforme</i>	CBS 445.74 ^{HT} = ATCC 28049 = IMI 216903 = NHL 6468	Soil, Papua New Guinea	GU981656 ^{BT}
<i>P. meridianum</i>	CBS 314.67 ^{HT} = ATCC 18545 = IMI 136209	Grassland soil, Pretoria, South Africa	JN406576 ^{RPB2}
<i>P. miczynskii</i>	CBS 220.28 ^T = ATCC 10470 = DSM 2437 = IFO 7730 = IMI 040030 = MUCL 29228 = NRRL 1077 = IBT 5491	Soil under conifer, Tatry mountains, Poland	JN606623 ^{RPB2}
<i>P. molle</i>	CBS 456.72 ^{HT} = ATCC 24075 = IMI 084589	Soil, Pakistan	JN406550 ^{RPB2}
<i>P. montanense</i>	CBS 310.63 ^{HT} = ATCC 14941 = IMI 099468 = MUCL 31326 = NRRL 3407	Coniferous forest soil, Ravalli Co., Montana, USA	JN406579 ^{RPB2}
<i>P. multicolor</i>	NRRL 2060 = IMI 092040 = NRRL 2060	Weathering treated cellophane, Florida, USA	EU427262 ^{RPB2}
<i>P. murcianum</i>	CBS 161.81 ^T = ATCC 42239 = IJFM 7031 = IMI 253800	Sandy soil, Madrid, Spain	JN406625 ^{RPB2}
<i>P. nalgiovense</i>	CBS 352.48 ^{NT} = ATCC 10472 = IBT 21536 = IMI 039804 = MUCL 31194 = NRRL 911	Ellischauer cheese, former Czechoslovakia	JN406560 ^{RPB2}
<i>P. neocrassum</i>	CBS 122428 ^T = NRRL 35639	Wine grapes, Madeira Island, Portugal	JN406633 ^{RPB2}
<i>P. nodositatum</i>	CBS 330.90 ^T	Soil, Alberta, Canada	JN406568 ^{RPB2}
<i>P. nodulum</i>	CBS 227.89 ^{NT}	Mouldy pork, Hubei Province, Shennongjia, China	JN406603 ^{RPB2}
<i>P. novae-zeelandiae</i>	CBS 137.41 ^T = ATCC 10473 = IMI 040584ii = NRRL 2128	Apothecium of <i>Sclerotinia</i> , Palmerston North, New Zealand	JN406628 ^{RPB2}
<i>P. ochrochloron</i>	CBS 357.48 ^{NT} = ATCC 10540 = IMI 039806 = NRRL 926	Copper sulphate solution, Washington, USA	GU981672 ^{BT}
<i>P. ochrosalmoneum</i>	CBS 489.66 ^{HT} = ATCC 18338 = IMI 116248ii	Commmeal, South Africa	JN606631 ^{RPB2}
<i>P. odoratum</i>	CBS 294.62 ^T = ATCC 14769 = CBS 296.62 = IMI 094208ii = NRRL 3007	Peaty soil in Picea-Larix bog, Taylor Co., Wisconsin, USA	JN406583 ^{RPB2}
<i>P. oligosporum</i>	CBS 349.51 ^T	Japan	GU981658 ^{BT}
<i>P. onobense</i>	CBS 174.81 ^T = ATCC 42225 = IJFM 3026	Soil, Navarra, Spain	GU981627 ^{BT}
<i>P. palmense</i>	CBS 336.79 ^T = ATCC 38669 = IJFM 3840	Gran Canaria, Las Palmas, Spain	JN406566 ^{RPB2}
<i>P. paneum</i>	CBS 465.95 = IBT 13929	Mouldy baker's yeast, Vangede, Denmark	JN406549 ^{RPB2}

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Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. papuanum</i>	CBS 570.73 ^{ISO} T = ATCC 28050 = ATCC 48363	Forest soil under <i>Pinus</i> sp. Central Dist., Port Moresby, Papua New Guinea	JN406545 ^{RPB2}
<i>P. paraherquei</i>	CBS 430.65 ^{AUT} = FAT 824	Soil, Japan	GU981628 ^{BT}
<i>P. parvum</i>	CBS 359.48 ^{NT} = ATCC 10479 = IFO 7732 = IMI 040587 = NRRL 2095 = QM 1878	Soil, Nicaragua	JN406559 ^{RPB2}
<i>P. pasqualense</i>	CBS 122402 = IBT 29047	Air in bakery, Averhorn, the Netherlands	JN606617 ^{RPB2}
<i>P. patens</i>	CBS 260.87 ^{HT} = FRR 2662	Dried fish, <i>Rastrelliger kanagurta</i> , Indonesia	JN406593 ^{RPB2}
<i>P. paxilli</i>	CBS 360.48 ^T = ATCC 10480 = IMI 040226 = NRRL 2008 = IBT 16202	Ex-type; optical instrument, Barro Colorado Island, Panama	JN606610 ^{RPB2}
<i>P. penarojense</i>	CBS 113178 ^T = IBT 23262	Leaf litter exposed 6 months, mature forest, Peña Roja, Colombia	GU981646 ^{BT}
<i>P. percisinum</i>	CBS 111235 ^T = AS 3.5891 = IBT 24565	Soil, Qinghai prov., China	JN406644 ^{RPB2}
<i>P. philippinense</i>	CBS 623.72 ^{AUT} = DSM 2420 = NHL 6130	Twig peduncle and fruit, Luzon Island, Sinipsip near Baguio, Philippines	JN406542 ^{RPB2}
<i>P. phoeniceum</i>	CBS 249.32 ^{NT} = ATCC 10481 = IJFM 5122 = IMI 040585 = NRRL 2070	Sooty mould on <i>Phoenix</i> sp. (palm)	JN406597 ^{RPB2}
<i>P. pimateoiense</i>	CBS 102479 ^T = NRRL 25542	Kidney epithelial cell culture flask, Peoria, Illinois, USA	JN406650 ^{RPB2}
<i>P. piscarium</i>	CBS 362.48 ^T = ATCC 10482 = IMI 040032 = NRRL 1075	Cod-liver oil emulsion, Norway	GU981668 ^{BT}
<i>P. polonicum</i>	CBS 222.28 ^T = IBT 12821 = IMI 291194 = MUCL 29204 = NRRL 995	Soil, Puszcza Bialowieska Forest, Poland	JN406609 ^{RPB2}
<i>P. psychrosexualis</i>	CBS 128036 ^{HT}	Wooden crate in cold-store of apples, Netherlands	JN406537 ^{RPB2}
<i>P. pullum</i>	CBS 331.48 = ATCC 10447 = IFO 6097 = IMI 039747 = NRRL 721	Soil, Tennessee, USA	JN617719 ^{BT}
<i>P. pulvillorum</i>	CBS 280.39 ^{NT} = IFO 7763 = NRRL 2026	Acidic soil, UK	GU981670 ^{BT}
<i>P. quebecense</i>	CBS 101623 ^T = IBT 29050	Air in sawmill, Quebec, Canada	JN606622 ^{RPB2}
<i>P. quercetorum</i>	CBS 417.69 ^{ISO} T = ATCC 48727 = IMI 140342 = MUCL 31203	Soil, Syria	JN406552 ^{RPB2}
<i>P. raciborskii</i>	CBS 224.28 ^T = ATCC 10488 = IMI 040568 = MUCL 29246 = NRRL 2150	Soil, under conifer Poznan area, "Długa Goslina", Poland	JN406607 ^{RPB2}
<i>P. raistrickii</i>	CBS 261.33 ^T = ATCC 10490 = IMI 040221 = NRRL 1044 = NRRL 2039	Cotton yarn, UK	JN406592 ^{RPB2}
<i>P. ramusculum</i>	NRRL 2279	Unknown source	EU427260 ^{RPB2}
<i>P. raperi</i>	CBS 281.58 ^{NT} = ATCC 22355 = IFO 8179 = IMI 071625 = NRRL 2674	Soil, Bedford, UK	GU981622 ^{BT}
<i>P. raphiae</i>	CBS 126234 ^T = IBT 22407	Soil under <i>Raphia</i> (?) palm in primary forest, Las Alturas, elev. 1530 m, Costa Rica	JN606619 ^{RPB2}
<i>P. reticulisporum</i>	CBS 513.74 = DSM 2207 = IFO 9712	Type of <i>P. arvense</i> and <i>E. arvense</i> ; soil, Japan	GU981666 ^{BT}
	CBS 121.68 ^{AUT} = ATCC 18565 = IMI 136699 = NHL 6102 = NRRL 3446	Soil, Japan	GU981665 ^{BT}
<i>P. ribeum</i>	CBS 127809 ^T = IBT 16537 = IBT 24431 = DAOM 234091	Red currant, Wyoming, USA	JN406631 ^{RPB2}
<i>P. rolfsii</i>	CBS 368.48 ^T = ATCC 10491 = IFO 7735 = IMI 040029 = MUCL 29229 = NRRL 1078	Pineapple, Florida, USA	GU981667 ^{BT}
<i>P. roqueforti</i>	CBS 221.30 ^{NT} = ATCC 10110 = ATCC 1129 = IBT 6754 = IMI 024313 = NRRL 849	French Roquefort cheese, USA	JN406611 ^{RPB2}
<i>P. roseopurpureum</i>	CBS 266.29 ^{NT} = ATCC 10492 = IMI 040573 = MUCL 28654 = MUCL 29237 = NRRL 2064 = NRRL 2064A	Unrecorded source	JN606613 ^{RPB2}
<i>P. rubefaciens</i>	CBS 145.83 ^{HT}	Sandy soil under pine tree, Valladolid, Spain	JN406627 ^{RPB2}
<i>P. rubens</i>	CBS 205.57 = ATCC 8537 = ATCC 9478 = IBT 23019 = IMI 015378 = NRRL 1209 = NRRL 824	Contaminant of bacterial culture (Fleming's strain), UK	JN406616 ^{RPB2}
<i>P. rubidurum</i>	CBS 609.73 ^{HT} = ATCC 28051 = ATCC 48238 = IMI 228551	Soil, East Sepik Dist., Wewak, Papua New Guinea	JN406544 ^{RPB2}
<i>P. sabulosum</i>	CBS 261.87 ^{HT} = FRR 2743	Spoiled pasteurized fruit juice, Sydney, New South Wales, Australia	JN406591 ^{RPB2}

SUPPLEMENTARY INFORMATION

Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. sajarovii</i>	CBS 277.83 ^{NT} = CECT 2751 = IMI 259992	<i>Secale cereale</i> (rye) Zamora, Castrocontrigo, Spain	JN406588 ^{RPB2}
<i>P. sanguifluum</i>	CBS 148.83 = CECT 2753	Sandy soil under pine tree, Valladolid, Spain	JN606614 ^{RPB2}
	CBS 685.85 = IJFM 19078 = IBT 4904 = IBT 10578 = IBT 10579	Ex-type of <i>P. lacussarmientei</i> , sandy soil, National Park of Torres del Paine, near Lake Sarmiento, Tierra del Fuego, Chile	JN606615 ^{RPB2}
<i>P. scabrosum</i>	CBS 683.89 ^{HT} = FRR 2950 = IBT 3736 = IMI 285533	<i>Zea mays</i> , Denmark	JN406541 ^{RPB2}
<i>P. sclerotigenum</i>	CBS 101033 ^T = ATCC 18488 = CBS 343.59 = IBT 14346 = IBT 21544 = IMI 68616 = NRRL 3461	Rotting tuber, <i>Dioscorea batatas</i> , Myogo Pref., Tamba Prov., Sasayama, Japan	JN406652 ^{RPB2}
<i>P. sclerotiorum</i>	CBS 287.36 ^{NT} = ATCC 10494 = IMI 040569 = NRRL 2074	Air, Buitenzorg, Java, Indonesia	JN406585 ^{RPB2}
<i>P. simplicissimum</i>	CBS 372.48 ^{NT} = ATCC 10495 = IFO 5762 = IMI 039816	Flannel bag, South Africa	GU981632 ^{BT}
<i>P. sinaicum</i>	CBS 279.82 ^{HT} = NHL 2894	<i>Secale cereale</i> (rye) Suez Canal, 30 km N of Port Said, Sinai Peninsula, Egypt	JN406587 ^{RPB2}
<i>P. sizovae</i>	CBS 413.69 ^{NT} = IMI 140344	Soil, Syria	JN606603 ^{RPB2}
<i>P. skrjabinii</i>	CBS 439.75 ^{NT} = IMI 196528	Soil, Russia (far East)	GU981626 ^{BT}
<i>P. smithii</i>	CBS 276.83 ^{NT} = CECT 2744 = IMI 259693	<i>Secale cereale</i> (rye), Zamora, Torneros, Spain	JN406589 ^{RPB2}
<i>P. soppii</i>	CBS 226.28 ^{NT} = ATCC 10496 = IMI 040217 = MUCL 29233 = NRRL 2023	Soil, Puszcza Bialowieska Forest, square "652", Poland	JN406606 ^{RPB2}
<i>P. spinulosum</i>	CBS 374.48 ^{NT} = ATCC 10498 = IMI 024316 = MUCL 13910 = MUCL 13911 = NRRL 1750	Culture contaminant, Hannover, Germany	JN406558 ^{RPB2}
<i>P. steckii</i>	CBS 260.55 ^{NT} = ATCC 10499 = DSM 1252 = IMI 040583 = NRRL 2140	Cotton fabric treated with copper naphthenate; Panama	JN606602 ^{RPB2}
<i>P. stolkiaae</i>	CBS 315.67 ^{HT} = IMI 136210 = ATCC 18546	Peaty forest soil, Eastern Transvaal, South-Africa	JN617717 ^{BT}
<i>P. striatisporum</i>	CBS 705.68 ^{HT} = ATCC 22052 = IMI 151749 = MUCL 31202	Leaf litter, <i>Acacia karroo</i> (Sweet Thorn), Potchefstroom, South Africa	JN406538 ^{RPB2}
<i>P. subarcticum</i>	CBS 111719 ^{HT} = NRRL 31108	Petroleum contaminated soil, near Norman Wells, Northwest-Territories, Canada	JN617716 ^{BT}
<i>P. subericola</i>	CBS 125096 ^T	Non-boiled cork, Coruche, Portugal	JN406621 ^{RPB2}
<i>P. sublateralitium</i>	CBS 267.29 ^{NT} = ATCC 10502 = IMI 040594 = MUCL 28655 = NRRL 2071	Unrecorded source, Belgium	JN406590 ^{RPB2}
<i>P. sumatrense</i>	NRRL 6181	Unknown source	EF198540 ^{RPB2}
	NRRL 779 ^T = CBS 281.36 = NRRL 779 = ATCC 48669 = IBT 29658 = IBT 4978	Soil, Toba Heath, Sumatra, Indonesia	EF198541 ^{RPB2}
	CBS 416.69 = IMI 140336 = IBT 29648	Isotype of <i>P. baradicum</i> ; soil under cornel, Damascus, Syria	JN606612 ^{RPB2}
<i>P. svalbardense</i>	CBS 122416 ^T = IBT 23856 = EX-F 1307	Glacial ice, Svalbard, Greenland	GU981669 ^{BT}
<i>P. swiecickii</i>	CBS 119391 ^T = FRR 918 = IBT 27865 = IMI 191500 = NRRL 918	Pine forest soil, Poland	JN406635 ^{RPB2}
<i>P. terrenum</i>	CBS 313.67 ^{HT} = ATCC 18547 = IMI 136208	Soil in subtropical forest, Eastern Transvaal, South Africa	JN406577 ^{RPB2}
<i>P. terrigenum</i>	CBS 127354 ^T = IBT 30769	Soil, Hawaii, USA	JN606600 ^{RPB2}
<i>P. toxicarium</i>	NRRL 31271	Unknown source	EF198486 ^{RPB2}
	NRRL 6172	Unknown source	EF198499 ^{RPB2}
<i>P. tropicoides</i>	CBS 122410 ^T	Soil rainforest, near Hua-Hin, Thailand	JN606608 ^{RPB2}
<i>P. tropicum</i>	CBS 112584 ^T = IBT 24580	Soil between <i>Coffea arabica</i> , Karnataka, India	JN606607 ^{RPB2}
<i>P. turbatum</i>	CBS 134.41 = ATCC 10415 = IMI 040590 = NRRL 2086	Neotype of <i>P. baamense</i> ; soil, Baarn, Netherlands	JN406630 ^{RPB2}
	CBS 339.61 = NRRL 2087	Contaminant of <i>P. euglaucum</i> culture, see also Stolk Scott (1967); leaf litter of <i>Acacia mollissima</i> , Natal, South Africa	JN406565 ^{RPB2}
	CBS 383.48 ^{NT} = ATCC 9782 = CBS 237.60 = IMI 039738 = MUCL 29115 = NRRL 757 = NRRL 758	Rotten twig <i>Taxus baccata</i>	JN406556 ^{RPB2}
<i>P. vanderhammenii</i>	CBS 126216 ^T = DTO 97A3 = IBT 23203	Leaf litter exposed for 6 months, mature forest, Aracuaara, Colombia	GU981647 ^{BT}

SUPPLEMENTARY INFORMATION

Table S1. (Continued).

Name	Collection no.	Origin	GenBank accession no.
<i>P. vasconiae</i>	CBS 339.79 ^T = CBS 175.81, IJFM 3008	Acid washed brown soil, Spain	GU981653 ^{BT}
<i>P. vinaceum</i>	CBS 389.48 ^{NT} = ATCC 10514 = IMI 029189 = NRRL 739	Soil, Utah, USA	JN406555 ^{RPB2}
<i>P. virgatum</i>	CBS 114838 ^{isoT} = BBA 65745	Soil near soy bean plant North of Noumea, Port Laguerre, New Caledonia	JN406641 ^{RPB2}
<i>P. waksmanii</i>	CBS 230.28 ^{NT} = ATCC 10516 = IFO 7737 = IMI 039746 = IMI 039746i = MUCL 29120 = NRRL 777 = IBT 5003 = IBT 6994	Woodland soil, Puszcza Bialowieska Forest, Poland	JN606627 ^{RPB2}
<i>P. wellingtonense</i>	CBS 130375 = IBT 23557	Soil, New Zealand	JN606616 ^{RPB2}
<i>P. westlingii</i>	CBS 231.28 ^T = IMI 092272 = IBT 15088	Soil under conifer, Denga Goolina, Poznan, Poland	JN606625 ^{RPB2}
<i>P. wotroi</i>	CBS 118171 ^T = IBT 23253	Leaf litter exposed for 6 months, mature forest, Araracuara, Colombia	GU981637 ^{BT}
<i>P. yarmokense</i>	CBS 410.69 ^{isoT} = FRR 520 = IMI 140346	Soil, Syria	JN406553 ^{RPB2}
<i>P. zonatum</i>	CBS 992.72 ^{HT} = ATCC 24353	Coastal marsh soil, USA, North Carolina	GU981651 ^{BT}
<i>Penicillium</i> sp.	CBS 116986 = IBT 3265	Soil, Wales	JN406638 ^{RPB2}
	CBS 117181 = IBT 6005 = IMI 304286	Barley, Denmark	JN406637 ^{RPB2}
	CBS 117192 = IBT 22220 = IBT 24432	Chestnut, France	JN406636 ^{RPB2}

SUPPLEMENTARY INFORMATION

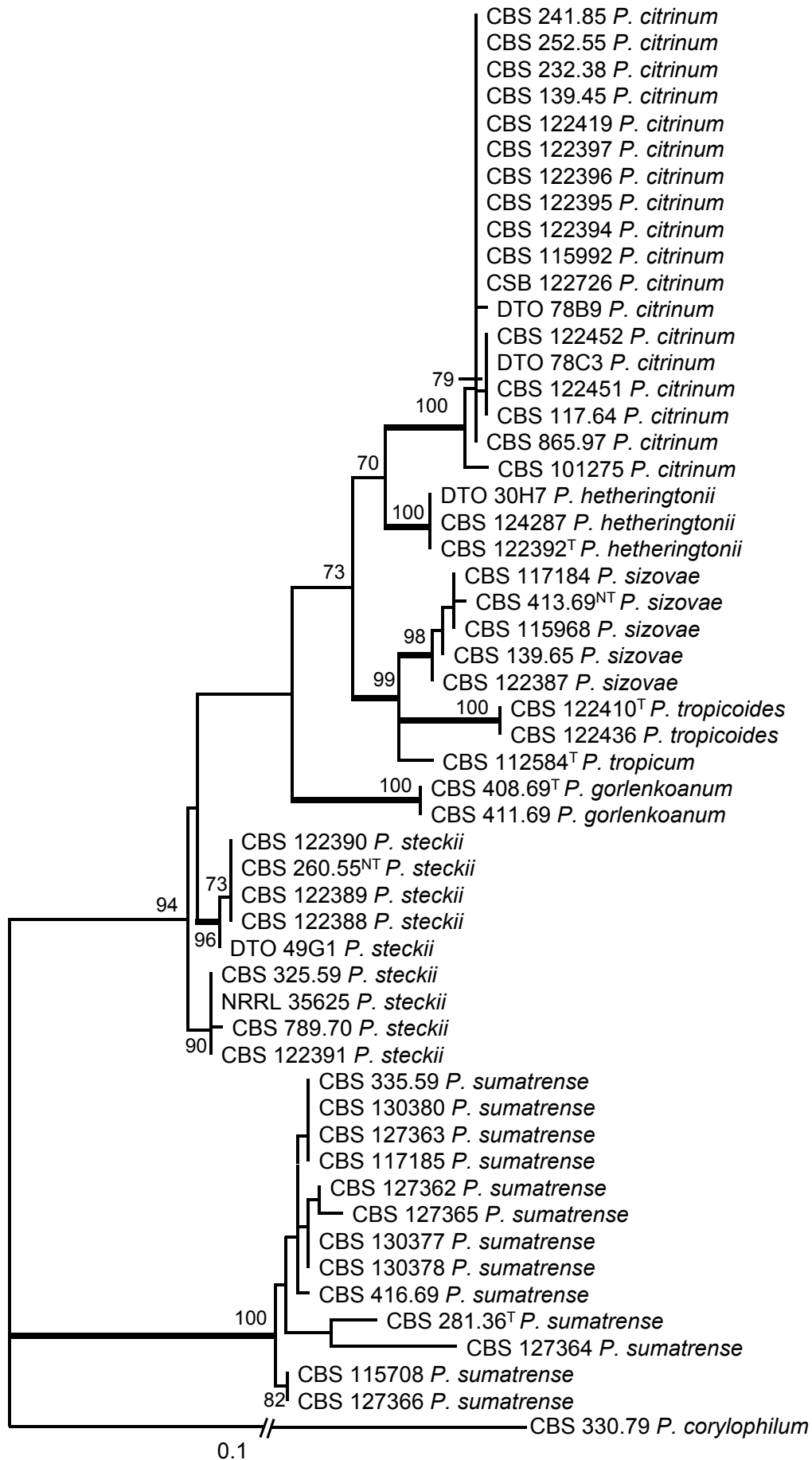


Fig. S1. Maximum Likelihood tree based on a partial β -tubulin sequence data of the *P. citrinum*-clade. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).

SUPPLEMENTARY INFORMATION

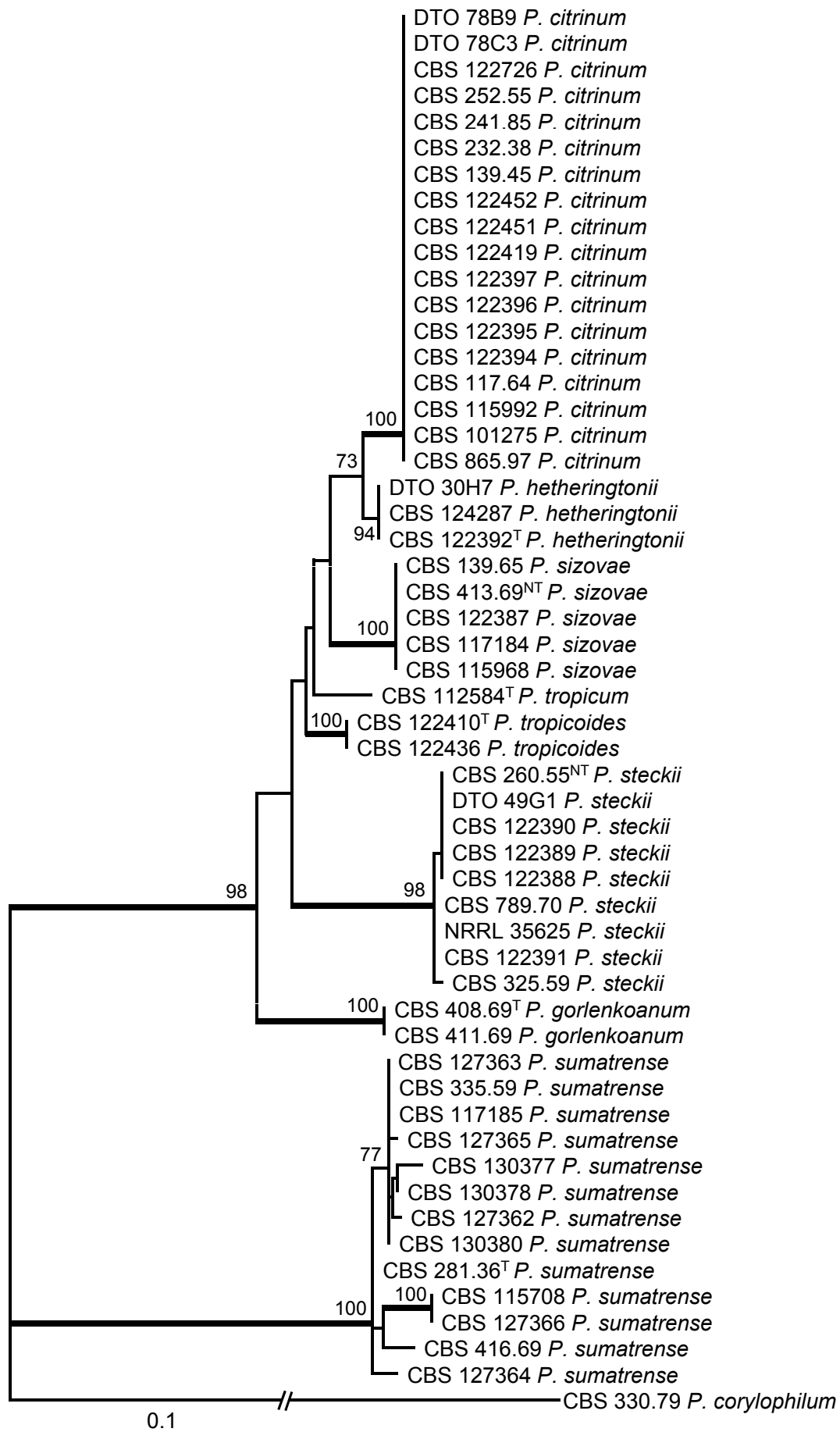


Fig. S2. Maximum Likelihood tree based on a partial calmodulin sequence data of the *P. citrinum*-clade. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).

SUPPLEMENTARY INFORMATION

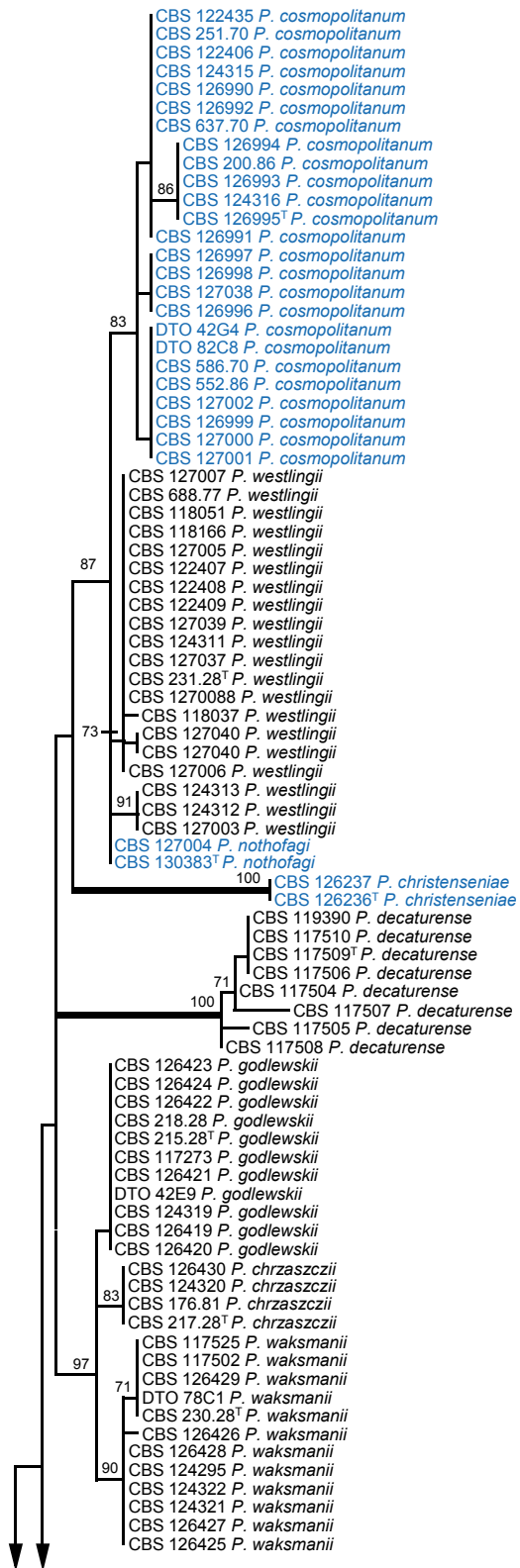


Fig. S3. Maximum Likelihood tree based on a partial β -tubulin sequence data of the *P. westlingii*-clade. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).

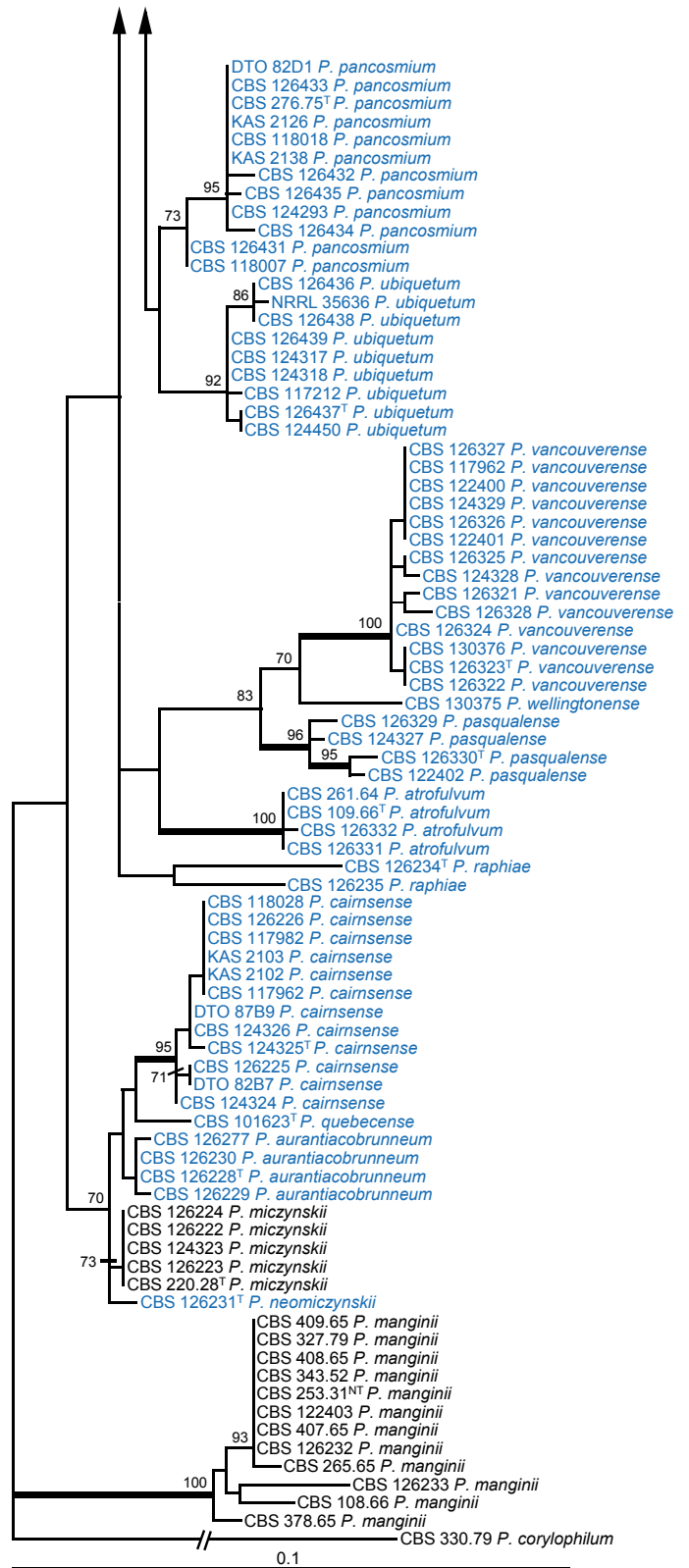


Fig. S3. (Continued).

SUPPLEMENTARY INFORMATION

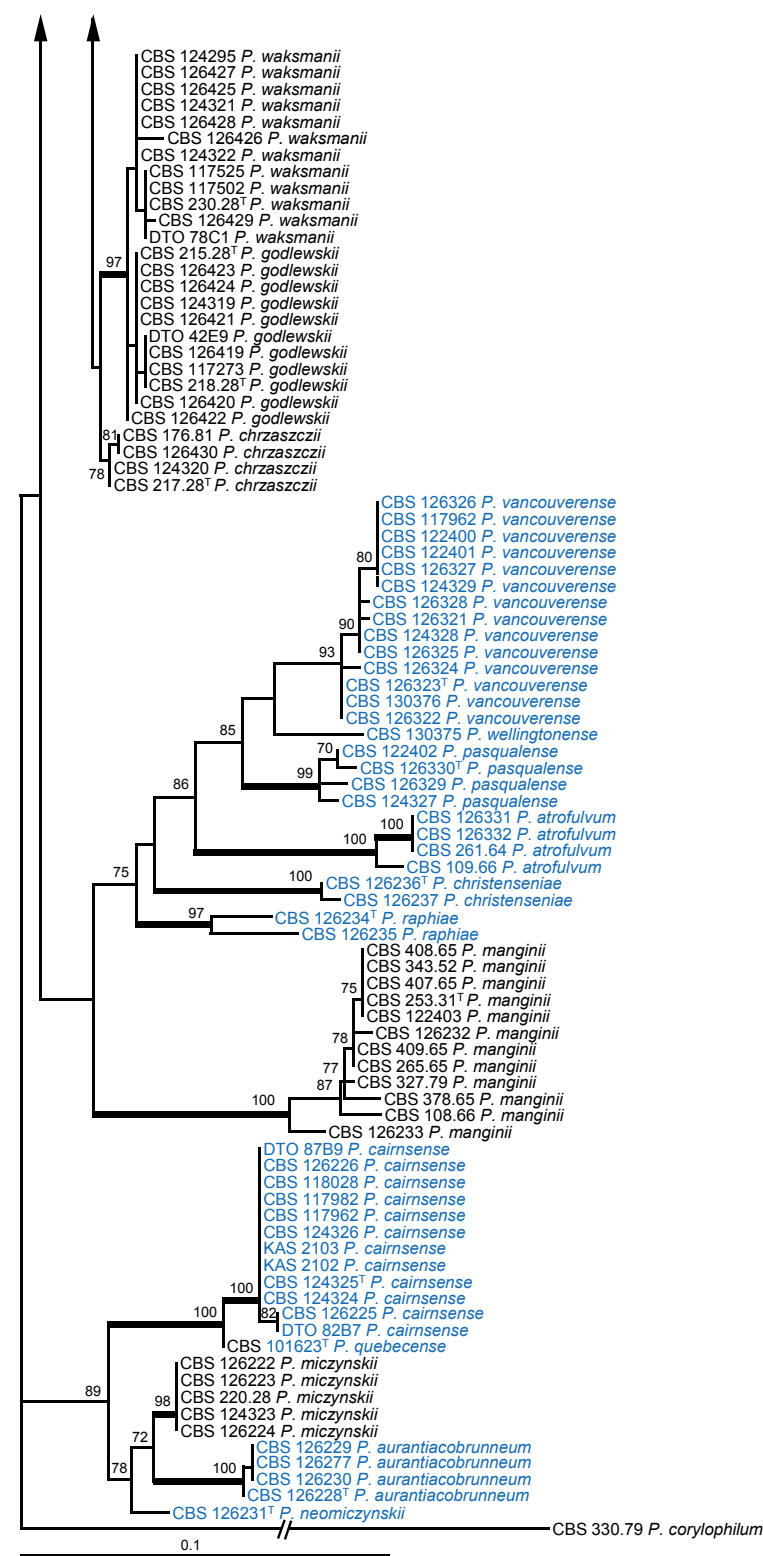
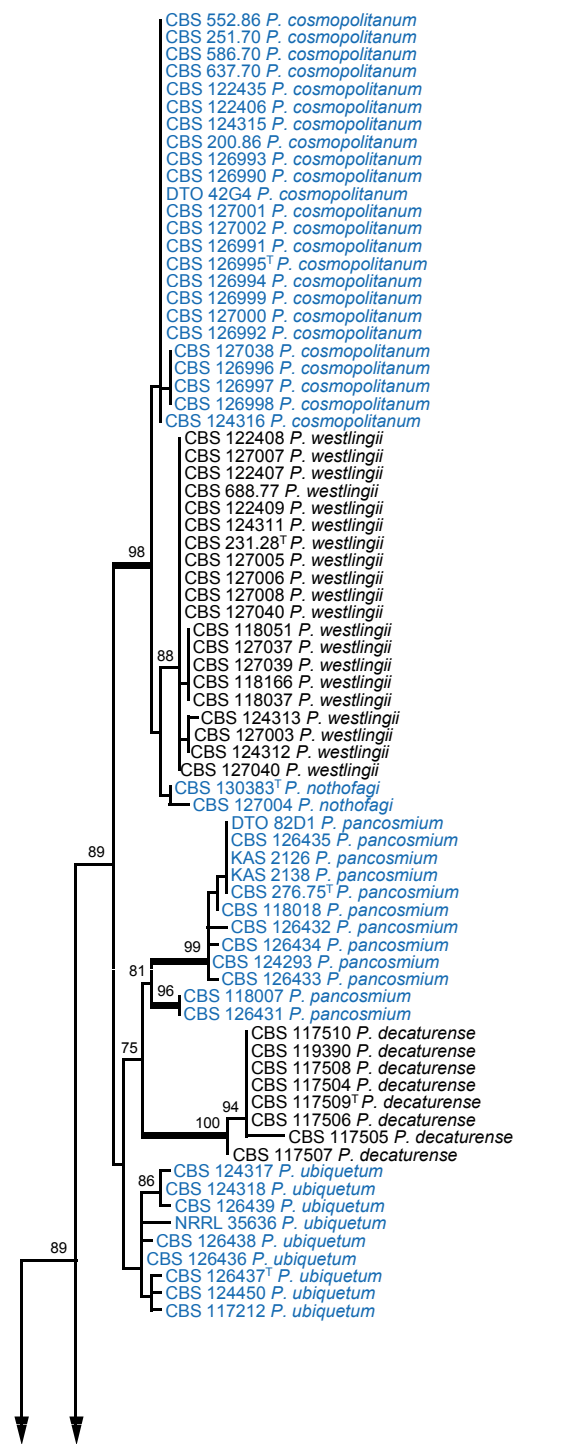


Fig. S4. Maximum Likelihood tree based on a partial calmodulin sequence data of the *P. westlingii*-clade. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).

Fig. S4. (Continued).

SUPPLEMENTARY INFORMATION

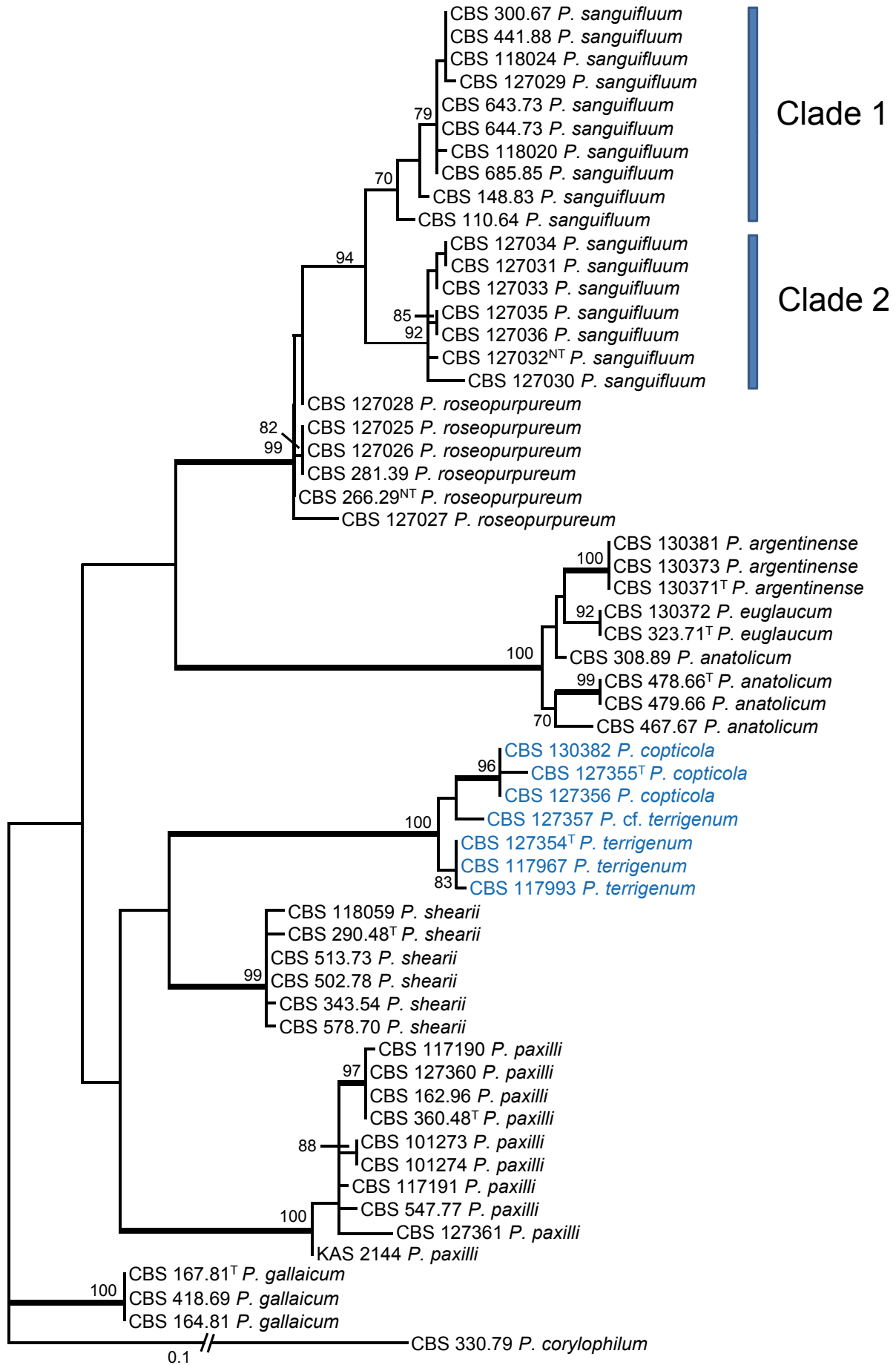


Fig. S5. Maximum Likelihood tree based on a partial β -tubulin sequence data of selected members of section *Citrina*. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).

SUPPLEMENTARY INFORMATION

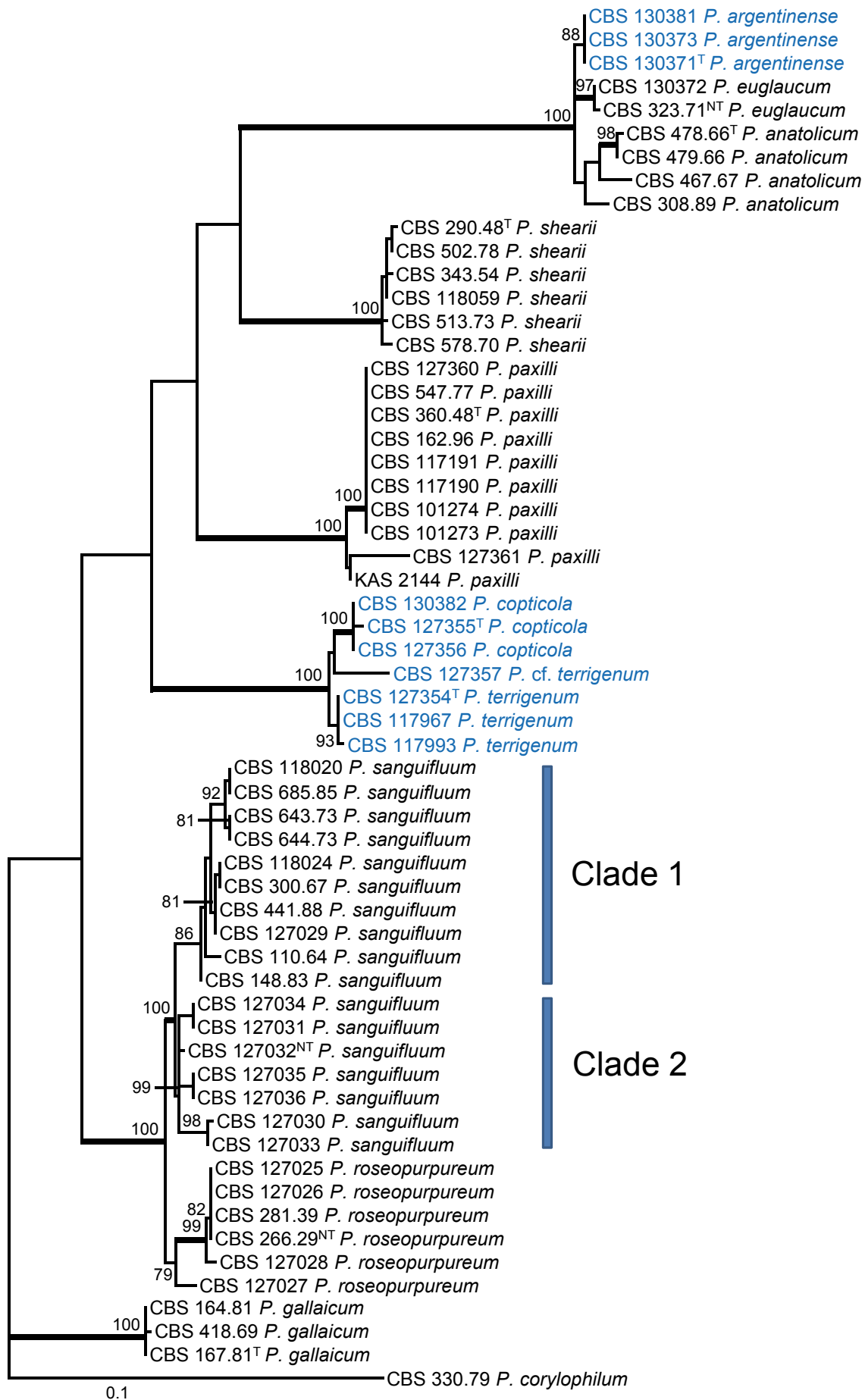


Fig. S6. Maximum Likelihood tree based on a partial calmodulin sequence data of selected members of section *Citrina*. Numbers above branches are bootstrap values. Only values above 70 % are shown and branches with more than 95 % bootstrap support are thickened. The phylogram is rooted with *P. corylophilum* (CBS 330.79).