

**Kirschner J., Oplaat C., Verhoeven K. J. F., Zeisek V., Uhlemann I., Trávníček B., Räsänen J., Wilschut R. A. & Štěpánek J. (2016): Identification of oligoclonal agamospermous microspecies: taxonomic specialists versus microsatellites. – *Preslia* 88: 1–17.**

Appendix 1. – Localities of achene samples of common clonal apomictic species of *Taraxacum* sect. *Taraxacum*. Collector abbreviations: Juhani Räsänen (JR), Jan Kirschner (JK), Bob Trávníček (BT) and Ingo Uhlemann (IU).

Name of taxon <i>Taraxacum</i> original determination	Code	Date and collector	Locality	Coordinates and altitude
<i>alatum</i>	ala11-101	8.6.11 JR	FI, Karelia borealis, Joensuu, Raatekangas, by the side of Pankakoskentie	62°37'42"N, 29°44'08"E, 81 m
<i>alatum</i>	ala11-103	9.6.11 JR	FI, Karelia borealis, Joensuu, Linnunlahti, Pajutie	62°36'10"N, 29°43'37"E, 80 m
<i>alatum</i>	ala4-1	21.5.11 JK	CZ, C. Bohemia, W. part of the City of Prague, valley of Prokopské údolí	50°02'32"N, 14°21'28"E, 283 m
<i>alatum</i>	ala4-2	21.5.11 JK	CZ, C. Bohemia, W. part of the City of Prague, valley of Prokopské údolí	50°02'32"N, 14°21'28"E, 283 m
<i>alatum</i>	ala5-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Vensov	49°50'23"N, 14°31'07"E, 351 m
<i>alatum</i>	ala5-2	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Vensov	49°50'23"N, 14°31'07"E, 351 m
<i>alatum</i>	ala12-18	23.5.12 JR	FI, Regio aboënsis, Sauvo, Kallenmäki, Pappilantie	60°20'29"N, 22°42'12"E, 12 m
<i>alatum</i>	ala12-136	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'55"N, 29°41'00"E, 84 m
<i>alatum</i>	ala12-137	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'55"N, 29°41'00"E, 84 m
<i>alatum</i>	ala12-153	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Kemie	62°13'34"N, 30°19'59"E, 143 m
<i>alatum</i>	ala12-155	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Kemie	62°13'34"N, 30°19'59"E, 143 m
<i>alatum</i>	ala12-170	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Värtsilä, Leminnurmi	62°11'57"N, 30°35'51"E, 74 m
<i>alatum</i>	ala12-173	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Värtsilä, Leminnurmi	62°11'57"N, 30°35'51"E, 74 m
<i>alatum</i>	ala1271-S1	1.5.12 BT	AT, Waldkirchen a.d. Thaya	48°56'11"N, 15°21'31"E, 465m
<i>alatum</i>	ala1272-S1	1.5.12 BT	AT, Nondorf, Rabesreith	48°53'19"N, 15°32'26"E, 490m
<i>alatum</i>	ala1275-S1	3.5.12 BT	CZ, Vysoké Chvojno	50°06'31"N, 15°58'14"E, 300 m
<i>alatum</i>	ala1280-S1	5.5.12 BT	CZ, Kojetín	49°20'56"N, 17°18'31"E, 190 m
<i>alatum</i>	ala1280-S2	5.5.12 BT	CZ, Kojetín	49°20'56"N, 17°18'31"E, 190 m
<i>alatum</i>	ala1284-S1	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 17°58'01"E,

				450 m	
<i>alatum</i>	ala1284-S2	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 450 m	17°58'01"E,
<i>alatum</i>	ala1296-S1	13.5.12 BT	DE, Bavaria, Althütte	49°20'12"N, 765 m	12°46'01"E,
<i>alatum</i>	ala1310-S1	19.5.12 BT	DE, Saxony, Rittersgrün	50°27'41"N, 650 m	12°48'55"E,
<i>alatum</i>	ala1313S1	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 730 m	13°17'30"E,
<i>alatum</i>	ala1	24.5.12 IU	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N, 550 m	13°51'13"E,
<i>alatum</i>	ala2	24.5.12 IU	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N, 550 m	13°51'13"E,
<i>ekmanii</i>	ek11-42	6.6.11 JR	FI, Karelia borealis, Joensuu, Pyhäselkä, Hammaslahti, Liitoskuja	62°25'49"N, 95 m	29°57'50"E,
<i>ekmanii</i>	ek11-102	9.6.11 JR	FI, Karelia borealis, Joensuu, Linnunlahti, Pajutie	62°36'10"N, 80 m	29°43'37"E,
<i>ekmanii</i>	ek12-129	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'50"N, 84 m	29°41'14"E,
<i>ekmanii</i>	ek1281	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 425 m	18°13'11"E,
<i>ekmanii</i>	ek1283_S1	8.5.12 BT	CZ, Študlov	49°09'31"N, 550 m	18°05'09"E,
<i>ekmanii</i>	ek1283_S2	8.5.12 BT	CZ, Študlov	49°09'31"N, 550 m	18°05'09"E,
<i>ekmanii</i>	ek1285_S1	8.5.12 BT	CZ, Vsetín	49°20'13"N, 450 m	18°01'17"E,
<i>ekmanii</i>	ek1298_S1	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 550 m	17°22'28"E,
<i>ekmanii</i>	ek1298_S2	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 550 m	17°22'28"E,
<i>ekmanii</i>	ek1313	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 730 m	13°17'30"E,
<i>hemicyclum</i>	hemi11-27	26.5.11 JR	FI, Nylandia, Nurmijärvi, Klaukkala, Haikala, Arotie	60°24'07"N, 47 m	24°45'12"E,
<i>hemicyclum</i>	hemi11-32	26.5.11 JR	FI, Nylandia, Nurmijärvi, Klaukkala, Mäntysalo, Havumäentie	60°24'05"N, 50 m	24°45'24"E,
<i>hemicyclum</i>	hemi11-41	6.6.11 JR	FI, Karelia borealis, Joensuu, Pyhäselkä, Hammaslahti, Liitoskuja	62°25'49"N, 95 m	29°57'50"E,
<i>hemicyclum</i>	hemi11-94	8.6.11 JR	FI, Karelia borealis, Joensuu, Raatekangas, by the side of Pankakoskentie	62°37'42"N, 81 m	29°44'08"E,
<i>hemicyclum</i>	hemi11-97	8.6.11 JR	FI, Karelia borealis, Joensuu, Raatekangas, by the side of Pankakoskentie	62°37'42"N, 81 m	29°44'08"E,
<i>hemicyclum</i>	hemi12-133	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'50"N, 84 m	29°41'14"E,

<i>hemicyclum</i>	hemi12-134	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'50"N, 29°41'14"E, 84 m
<i>hemicyclum</i>	hemi12-156	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Kemie	62°13'34"N, 30°19'59"E, 143 m
<i>hemicyclum</i>	hemi12-164	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Värttilä, Niirala, Rajantie	62°10'33"N, 30°35'25"E, 77 m
<i>hemicyclum</i>	hemi12-168	5.6.12 JR	FI, Karelia borealis, Tohmajärvi, Värttilä, Niirala, Rajantie	62°10'29"N, 30°35'47"E, 77 m
<i>hemicyclum</i>	hemi12-211	8.6.12 JR	FI, Karelia borealis, Joensuu, Käpykangas, Kaltimontie	62°37'15"N, 29°46'08"E, 80 m
<i>hemicyclum</i>	hemi1275	3.5.12 BT	CZ, Vysoké Chvojno	50°06'31"N, 15°58'14"E, 300 m
<i>hemicyclum</i>	hemi1280	5.5.12 BT	CZ, Kojetín	49°20'56"N, 17°18'31"E, 190 m
<i>hemicyclum</i>	hemi1285	8.5.12 BT	CZ, Vsetín	49°20'13"N, 18°01'17"E, 450 m
<i>hemicyclum</i>	hemi1287	11.5.12 BT	DE, Wondreb	49°54'25"N, 12°23'15"E, 535 m
<i>hemicyclum</i>	hemi1298-1	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 17°22'28"E, 550 m
<i>hemicyclum</i>	hemi1298-2	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 17°22'28"E, 550 m
<i>hemicyclum</i>	hemi1302_S1	15.5.12 BT	CZ, Břidličná, Vajglov	49°53'47"N, 17°21'30"E, 550 m
<i>hemicyclum</i>	hemi1302_S2	15.5.12 BT	CZ, Břidličná, Vajglov	49°53'47"N, 17°21'30"E, 550 m
<i>hepaticum</i>	hepa1219_S2	29.5.11 BT	CZ, Radhošťské Beskydy, Pustevny	49°29'18"N, 18°15'52"E, 1010 m
<i>hepaticum</i>	hepa1262_S1	28.4.12 BT	PL, Prudnik, Trzebina	50°17'35"N, 17°36'26"E, 260 m
<i>hepaticum</i>	hepa1262_S2	28.4.12 BT	PL, Prudnik, Trzebina	50°17'35"N, 17°36'26"E, 260 m
<i>hepaticum</i>	hepa1281_S1	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 18°13'11"E, 450 m
<i>hepaticum</i>	hepa1288_S1	11.5.12 BT	DE, Bavaria, Hermannsreuth	49°49'49"N, 12°27'27"E, 720 m
<i>hepaticum</i>	hepa1297_S1	13.5.12 BT	DE, Bavaria, Furth im Wald, Aignhof	49°15'29"N, 12°56'10"E, 515 m
<i>hepaticum</i>	hepa1297_S2	13.5.12 BT	DE, Bavaria, Furth im Wald, Aignhof	49°15'29"N, 12°56'10"E, 515 m
<i>hepaticum</i>	hepa1313_S1	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 13°17'30"E, 730 m
<i>hepaticum</i>	hepa1313_S2	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 13°17'30"E, 730 m
<i>hepaticum</i>	hepa15-1	29.5.11 JK	AT, Austria, Mühlviertel, Kollern	48°35'15"N, 14°23'51"E, 582 m

<i>hepaticum</i>	hepa8-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Vensov	49°50'23"N, 351 m	14°31'07"E
<i>hepaticum</i>	hepa8-2	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Vensov	49°50'23"N, 351 m	14°31'07"E
<i>hepaticum</i>	hepa9-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 323 m	14°31'28"E
<i>hepaticum</i>	hepa9-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 323 m	14°31'28"E
<i>hepaticum</i>	hepa6	14.5.12 BT	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N 550 m	13°51'13"E
<i>hepaticum</i>	hepa7	24.5.12 BT	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N 550 m	13°51'13"E
<i>interveniens</i>	inter1277_S1	3.5.12 BT	CZ, E. Bohemia, České Meziříčí	50°17'04"N, 250 m	16°03'02"E
<i>interveniens</i>	inter1280_S1	5.5.12 BT	CZ, Kojetín	49°20'56"N, 190 m	17°18'31"E
<i>interveniens</i>	inter1280_S2	5.5.12 BT	CZ, Kojetín	49°20'56"N, 190 m	17°18'31"E
<i>interveniens</i>	inter1281_S1	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 425 m	18°13'11"E
<i>interveniens</i>	inter1281_S2	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 425 m	18°13'11"E
<i>interveniens</i>	inter1284_S1	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 450 m	17°58'01"E
<i>interveniens</i>	inter1284_S2	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 450 m	17°58'01"E
<i>interveniens</i>	inter1298_S1	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 550 m	17°22'28"E
<i>interveniens</i>	inter1313_S1	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 730 m	13°17'30"E
<i>interveniens</i>	inter1313_S2	20.5.12 BT	CZ, Jindřichova Ves	50°34'28"N, 730 m	13°17'30"E
<i>macranthoides</i>	macra6-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Vensov	49°50'23"N, 351 m	14°31'07"E
<i>macranthoides</i>	macra12-206	8.6.12 JR	FI, Karelia borealis, Joensuu, Linnunlahti, Pajutie	62°36'10"N, 29°43'37"E, 80 m	
<i>macranthoides</i>	macra1267-1	29.4.12 BT	PL, Paczków	50°26'15"N, 275 m	16°59'17"E
<i>macranthoides</i>	macra1280-1	5.5.12 BT	CZ, Kojetín	49°20'56"N, 190 m	17°18'31"E
<i>macranthoides</i>	macra1280-2	5.5.12 BT	CZ, Kojetín	49°20'56"N, 190 m	17°18'31"E
<i>macranthoides</i>	macra3	14.5.12 IU	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N, 550 m	13°51'13"E
<i>macranthoides</i>	macra8	7.5.12 IU	DE, Saxony, Erzgebirge, Liebstadt, Grossroehrsdorf	50°53'47"N 330 m	13°50'2"E

<i>macranthoides</i>	macra11	7.5.12 IU	DE, Saxony, Erzgebirge, Liebstadt, Grossroehrsdorf	50°53'47"N 13°50'2"E, 330 m
<i>obtusifrons</i>	obs11-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 14°31'28"E, 323 m
<i>obtusifrons</i>	obs11-2	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 14°31'28"E, 323 m
<i>obtusifrons</i>	obs12-1	22.5.12 JK	CZ, C. Bohemia, Průhonice	50°00'04"N, 14°33'23"E, 292 m
<i>obtusifrons</i>	obs1281_S1	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 18°13'11"E, 425 m
<i>obtusifrons</i>	obs1281_S2	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 18°13'11"E, 425 m
<i>obtusifrons</i>	obs1284-2	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 17°58'01"E, 450 m
<i>obtusifrons</i>	obs1285-S1	8.5.12 BT	CZ, Vsetín	49°20'13"N, 18°01'17"E, 450 m
<i>obtusifrons</i>	obs1285-S2	8.5.12 BT	CZ, Vsetín	49°20'13"N, 18°01'17"E, 450 m
<i>obtusifrons</i>	obs1296-S1	13.5.12 BT	DE, Bavaria, Furth im Wald, Althütte	49°20'12"N, 12°46'01"E, 765 m
<i>obtusifrons</i>	obs1296-S2	13.5.12 BT	DE, Bavaria, Furth im Wald, Althütte	49°20'12"N, 12°46'01"E, 765 m
<i>obtusifrons</i>	obs1298-2	15.5.12 BT	CZ, Horní Loděnice	49°46'12"N, 17°22'28"E, 550 m
<i>obtusifrons</i>	obs1299-S1	15.5.12 BT	CZ, Horní Guntramovice	49°47'38"N, 17°33'01"E, 600 m
<i>obtusifrons</i>	obs1299-S2	15.5.12 BT	CZ, Horní Guntramovice	49°47'38"N, 17°33'01"E, 600 m
<i>obtusifrons</i>	obs1305-S1	18.5.12 BT	DE, Saxony, Hermsdorf/Erzgebirge	50°44'49"N, 13°38'38"E, 800 m
<i>obtusifrons</i>	obs1305-S2	18.5.12 BT	DE, Saxony, Hermsdorf/Erzgebirge	50°44'49"N, 13°38'38"E, 800 m
<i>piceatum</i>	pin1	19.5.11 JK	CZ, C. Bohemia, Průhonice	50°00'04"N, 14°33'23"E, 292 m
<i>piceatum</i>	pin2-1	22.5.12 JK	CZ, C. Bohemia, Průhonice	50°00'04"N, 14°33'23"E, 292 m
<i>piceatum</i>	pin2-2	22.5.12 JK	CZ, C. Bohemia, Průhonice	50°00'04"N, 14°33'23"E, 292 m
<i>piceatum</i>	pin12-15	22.5.12 JR	FI, Regio aboënsis, Angelniemi, Kokkila	60°19'08"N, 22°56'38"E, 3 m
<i>piceatum</i>	pin12-141	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Kuusela, Marjalantie	62°37'55"N, 29°41'00"E, 84 m
<i>piceatum</i>	pin12-146	3.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Aavaranta	62°36'42"N, 29°42'32"E, 77 m
<i>piceatum</i>	pin12-225	9.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Aavaranta	62°36'42"N, 29°42'32"E, 77 m

<i>piceatum</i>	pin12-226	9.6.12 JR	FI, Karelia borealis, Joensuu, Noljakka, Aavaranta	62°36'42"N, 29°42'32"E, 77 m
<i>piceatum</i>	pin1262	28.4.12 BT	PL, Prudnik, Trzebina	50°17'35"N, 17°36'26"E, 260 m
<i>piceatum</i>	pin1267-S1	29.4.12 BT	PL, Paczków	50°26'15"N, 16°59'17"E, 275 m
<i>piceatum</i>	pin1267-S2	29.4.12 BT	PL, Paczków	50°26'15"N, 16°59'17"E, 275 m
<i>pulchrifolium</i>	pul10	7.5.12 IU	DE, Saxony, Erzgebirge, Liebstadt, Grossroehrsdorf	50°53'47"N 13°50'2"E, 330 m
<i>pulchrifolium</i>	pul12	7.5.12 IU	DE, Saxony, Erzgebirge, Liebstadt, Grossroehrsdorf	50°53'47"N 13°50'2"E, 330 m
<i>pulchrifolium</i>	pul13	24.5.12 IU	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N 13°51'13"E, 550 m
<i>pulchrifolium</i>	pul14b	24.5.12 IU	DE, Saxony, Erzgebirge, Liebenau	50°47'14"N 13°51'13"E, 550 m
<i>pulchrifolium</i>	pul10-1	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 14°31'28"E, 323 m
<i>pulchrifolium</i>	pul10-2	11.5.12 JK	CZ, C. Bohemia, district of Benešov, Lešany, Břežany	49°50'12"N, 14°31'28"E, 323 m
<i>pulchrifolium</i>	Pul16-1	19.5.12 JK	CZ, C. Bohemia, Průhonice, the Průhonice Park	49°59'52"N, 14°33'39"E, 307 m
<i>pulchrifolium</i>	pul1272	1.5.12 BT	AT, Nondorf, Rabesreith	48°53'19"N, 15°32'26"E, 490 m
<i>pulchrifolium</i>	pul1280-S1	5.5.12 BT	CZ, Kojetín	49°20'56"N, 17°18'31"E, 190 m
<i>pulchrifolium</i>	pul1280-S2	5.5.12 BT	CZ, Kojetín	49°20'56"N, 17°18'31"E, 190 m
<i>pulchrifolium</i>	pul1281-S1	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 18°13'11"E, 425 m
<i>pulchrifolium</i>	pul1281-S2	8.5.12 BT	SK, Lazy pod Makytou	49°14'54"N, 18°13'11"E, 425 m
<i>pulchrifolium</i>	pul1284-S1	8.5.12 BT	CZ, Vsetín, Seninka	49°16'23"N, 17°58'01"E, 450 m
<i>pulchrifolium</i>	pul1297-S1	13.5.12 BT	DE, Bavaria, Furth im Wald, Aignhof	49°15'29"N, 12°56'10"E, 515 m
<i>pulchrifolium</i>	pul1297-S2	13.5.12 BT	DE, Bavaria, Furth im Wald, Aignhof	49°15'29"N, 12°56'10"E, 515 m
<i>pulchrifolium</i>	pul1299	15.5.12 BT	CZ, Horní Guntramovice	49°47'38"N, 17°33'01"E, 600 m
<i>pulchrifolium</i>	pul1303	18.5.12 BT	DE, Saxony, Liebenau	50°47'12"N, 13°51'10"E, 585 m

## Electronic Appendix 2. – R function to calculate genotypic index G.

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## Calculates index of genetic diversity according to Hughes and Richards 1988
## defined as  $G_{mlg} = 1 - \sum(X[I]^2)$ 
## where X is frequency of genotype I

## The functions requires as an input (variable MLG) a genind object.
## For information about genind objects see poppr's manual or "?genind".

# When the genind object contains several populations of one species.
# Calculations are performed on every population,
# resulting index is for whole dataset.

G_mlg_pop <- function (MLG) {

# Function requires package poppr
# http://grunwaldlab.cgrb.oregonstate.edu/poppr-r-package-population-genetics
require(package="poppr")

X <- mlg.table(MLG, bar=FALSE, total=FALSE, quiet=FALSE)

# Initialize variable
ans <- c(0)

for (L in 1:length(X[,1])) {

# Initialize variable
freqs <- c(0)

# Calculate frequencies of each MLG
for (I in 1:length(X[1,])) {
  freqs[I] <- (X[L,I]/length(X[1,]))^2
}

# Calculate the index
G <- 1 - sum(freqs)
ans[L] <- G

}

# Result
names(ans) <- MLG$pop.names
ans

}

##
# When the genind object contains several species.
# Calculations are performed on every species separately.

G_mlg_sp <- function (MLG) {

# Function requires package poppr
# http://grunwaldlab.cgrb.oregonstate.edu/poppr-r-package-population-genetics
require(package="poppr")

# Initialize variable
ans <- c(0)

for (L in 1:length(levels(pop(MLG)))) {

X <- mlg.table(MLG, sublist=L, bar=FALSE, total=FALSE, quiet=FALSE)

# Initialize variable
freqs <- c(0)

# Calculate frequencies of each MLG
for (I in 1:length(X)) {
  freqs[I] <- (X[I]/summary(MLG$pop)[L])^2
}

}
```

```
# Calculate the index
G <- 1 - sum(freqs)
ans[L] <- G

}

# Result
names(ans) <- MLG$pop.names
ans

}
```



Electronic Appendix 3.

Fig. 1. – Minimum Spanning Network (MSN) showing relationships among multi locus genotypes (MLGs) based on Bruvo’s distance (arrows indicate identification mistakes and question mark enigmatic sample pul1299). Thickness of lines connecting the MLGs is reversely proportional to Bruvo’s distance (the thicker the stronger connection). Enigmatic sample originally identified as *T. pulchrifolium* is relatively distantly related to that species. Size of circles corresponds to the number of plants belonging to individual MLG.

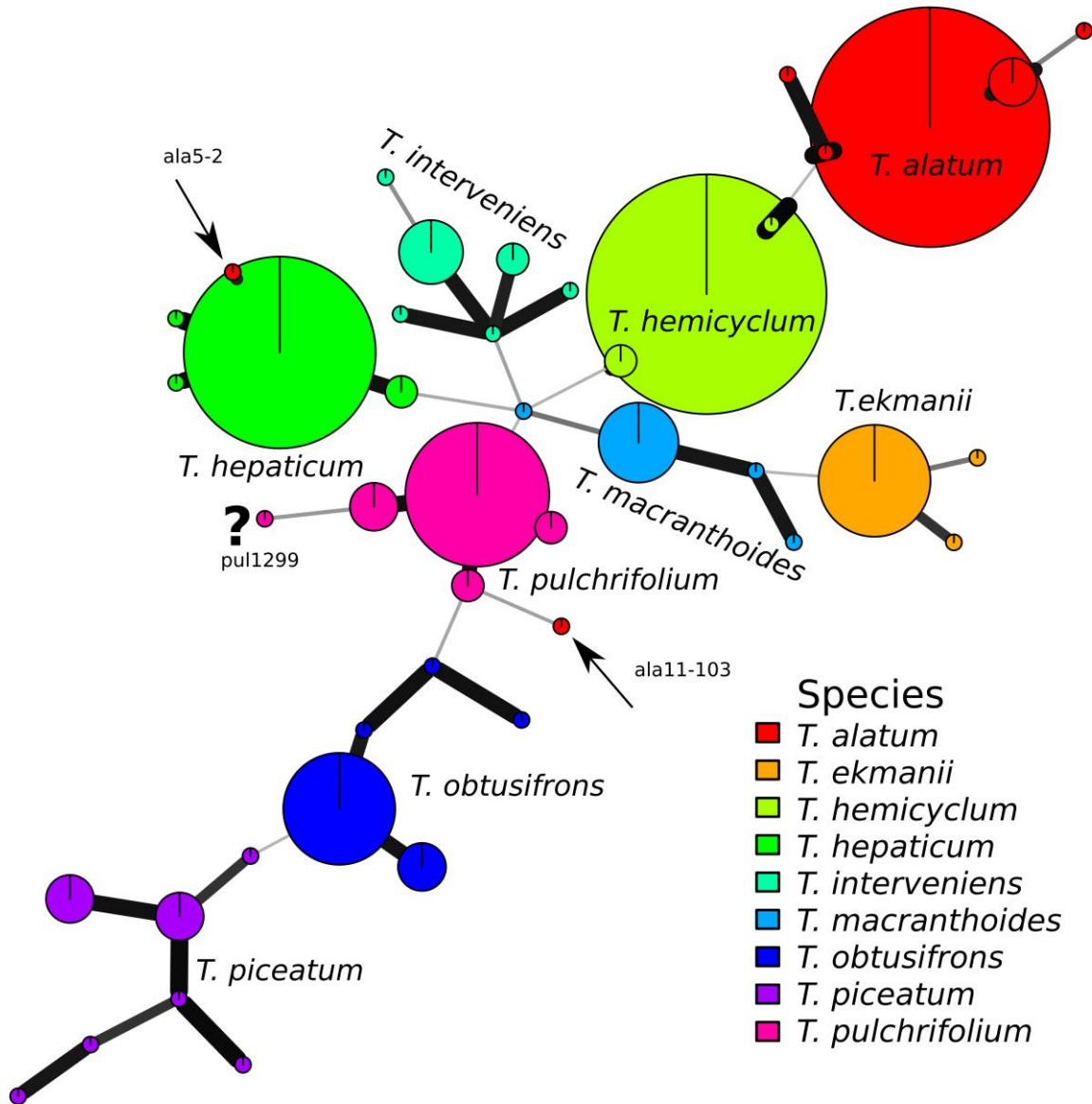


Fig. 2. – PCoA based on Nei's genetic distance showing individuals labeled according to original morphological groups. Species-specific clusters are generally distinct, only the aberrant samples of *T. alatum* do not fit their presumed cluster (see Discussion).

