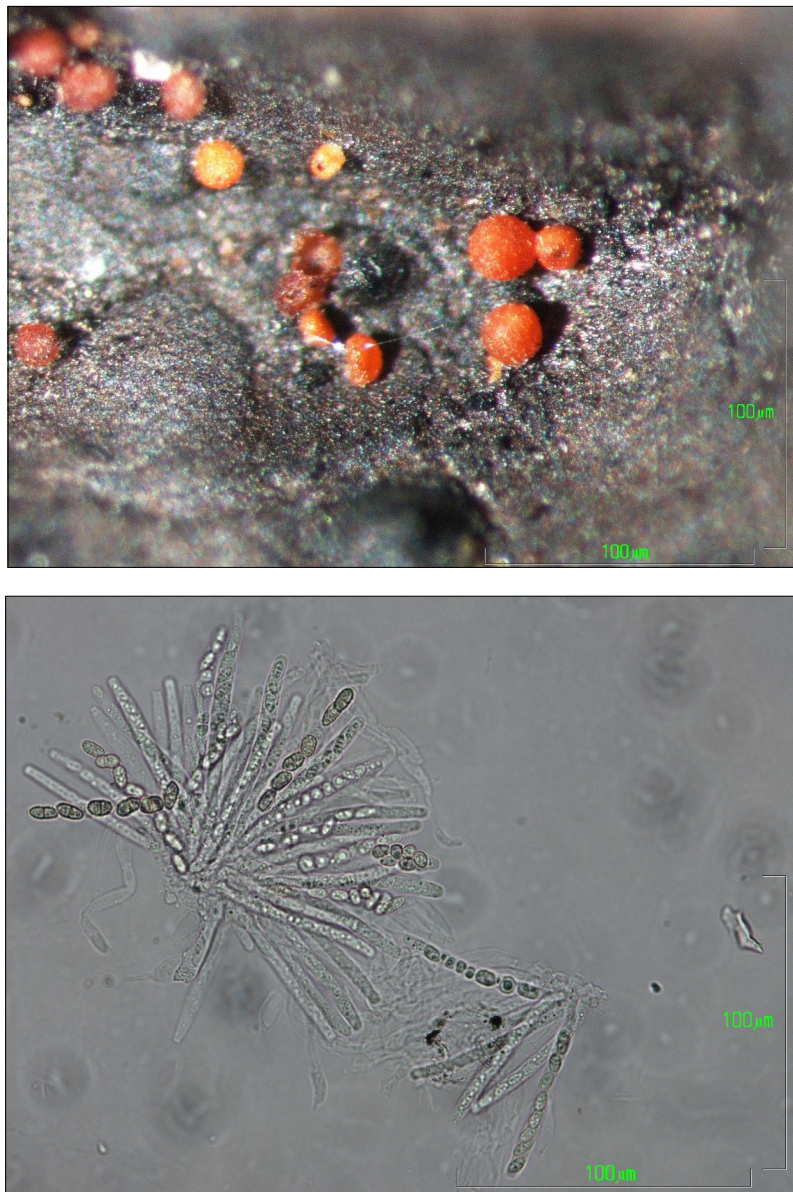


Supplementary Material

Fig. S1 – Veteran beeches are keystones of the Trentino landscape.



Fig. S2 – *Cosmospora berkeleyana*: (upper panel) perithecia growing directly above the stromata surface of *Kretzschmaria deusta*, (lower panel) structure of asci and ascospore.



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Tab. S1 - Surveyed veteran beech sites with *Kretzschmaria deusta* presence and risk status. (*): indicates the trees that fell during the last years.

Location	Geographic coordinates (Long E, Lat N)	Elevation (m a.s.l.)	Aspect	Position	Circumference (cm, mean for group)	Trees					Other fungi	Risk evaluation max	Defects on			
						Surveyed	with <i>K. deusta</i>	Fruiting bodies	Trunk colonization	In the area			collar	trunk	crown	root
1. Vezzano - Canal	10°59'28.059", 46°5'55.448"	1280	SE	isolated wood	443	1	1		5 m	x		moderate	x	x		
2. Cavedine - Malga Pian	10°59'22.75", 45°58'19.324"	835	N	isolated wood	470	1	1	x	2 m	x	<i>Meripilus giganteus</i>	high	x	x		x
3. Tenno - Vedesè	10°50'49.745", 45°56'51.899"	950	N	isolated wood	566	1	1	x	3 m		<i>Ganoderma sp.</i> , <i>Schizophillum commune</i>	extreme	x	x	x	x
4. Villa Lagarina - Cà vecia	11°2'3.886", 45°57'26.749"	895	NO	Garden	570	1	1	x	6 m		<i>Armillaria spp.</i>	extreme*	x	x	x	x
5. Centa - Falopi	11°12'42.059", 45°57'7.662"	1080	SE	isolated pastures	473	1	1	x	collar			moderate	x			
6. Ala - Ninele	10°59'35.411", 45°42'48.109"	1475	E	isolated wood	663	1	1	x	1,5 m			moderate	x	x		
7. Ala - Lavacchione	10°59'11.168", 45°42'33.594"	1380	E	group wood	450	10	4	x	collar	x	<i>Meripilus giganteus</i>	high	x	x		
8. Ala - Regina	10°58'54.785", 45°42'11.066"	1300	SE	isolated wood	525	1	1	x	2 m	x		high	x	x		
9. Ala - Malga Sega di Ala	10°58'47.713", 45°41'25.338"	1290	NO	group pastures	535	4	4	x	4 m			moderate	x	x		
10. Ala - Vaio Malga Sega di Ala	10°58'55.566", 45°41'31.683"	1280	NO	group pastures	492	11	4	x	2 m			low	x	x		
11. Avio - Piagù	10°55'44.061", 45°45'21.72"	915	SO	isolated pastures	510	1	0			x		low				
12. Brentonico - Postelmonzel	10°54'15.089", 45°46'44.609"	1220	SO	group pastures	535	3	1	x	collar			low	x			
13. Nago/Torbole - Selva	10°52'42.48", 45°49'28.87"	1150	O	isolated wood	526	1	0			x		low				
14. Imer - Solan grande	11°46'11.084", 46°8'56.554"	1005	S	isolated pastures	325	1	0			x		low				
15. Bieno - Villa Pia	11°33'51.594", 46°5'7.437"	960	S	isolated wood	444	1	0					high			x	
16. Ivano Fracena - Monte Lefre	11°33'36.658", 46°3'35.134"	1295	S	isolated wood	525	1	1	x	collar			low *	x			
17. Telve - Pupille	11°27'34.97", 46°8'35.67"	1310	NE	isolated pastures	415	1	0					low				
18. Ronchi - Buse dei Sassi	11°25'37.104", 46°4'30.058"	1183	SE	isolated wood	550	1	0			x		low				
19. Pergine - Mas dei Boci	11°15'18.846", 46°5'57.188"	1130	SE	isolated wood	513	1	1	x	3 m	x	<i>Armillaria spp.</i>	moderate	x	x		
20. Cavareno - Dosse del batocel	11°12'45.871", 46°23'44.806"	1530	N	isolated wood	304	1	0					low				
21. Mezzocorona - Bait dei Manzi	11°6'18.338", 46°13'59.068"	840	O	group wood	371	12	9	x	2 m	x	<i>Armillaria spp.</i>	high	x	x		

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Location	Geographic coordinates (Long E, Lat N)	Elevation (m a.s.l.)	Aspect	Position	Circumference (cm, mean for group)	Trees					Other fungi	Risk evaluation max	Defects on			
						Surveyed	with <i>K. deusta</i>	Fruiting bodies	Trunk colonization	In the area			collar	trunk	crown	root
22. Giovo - Gajer	11°11'19.963", 46°13'21.681"	1020	S	isolated wood	330	1	0			x		low *				
23. Trento - Malga Brigolina	11°3'42.409", 46°3'35.433"	943	NO	isolated pastures	465	1	1	x	4 m			moderate	x	x	x	
24. Trento - Malga Brigolina 2	11°3'44.798", 46°3'24.6"	1000	NO	isolated pastures	435	1	0					low				
25. Villa Lagarina - Bellaria	11°1'58.158", 45°57'26.365"	899	O	isolated wood	521	1	1	x	collar			moderate	x			
26. Villa Lagarina - Bettini	11°2'19.064", 45°57'33.963"	878	O	isolated wood	505	1	0			x		low				
27. Villa Lagarina - Probizer	11°1'11.102", 45°56'53.274"	945	NO	isolated wood	434	1	1	x	1 m			moderate	x	x		
28. Stenico - Valagola	10°49'11.651", 46°10'13.66"	1630	E	group wood	336	7	2	x	4 m	x		low	x	x		
29. Stenico - Malga Stabli	10°48'38.701", 46°6'45.391"	1120	O	isolated wood	470	1	0			x		low				
30. Comano Terme - Albergo Brenta	10°48'26.327", 46°7'8.754"	1163	S	isolated pastures	401	1	0					moderate			x	
31. S. Lorenzo - Bael	10°56'8.952", 46°4'22.475"	915	O	isolated wood	510	1	0			x		low				
32. Molveno - Malga Ceda di Andalo	10°56'38.826", 46°8'42.993"	1360	E	isolated pastures	486	1	1	x	4 m	x		high	x	x		
33. S. Lorenzo - Malga Ceda di Villa	10°56'37.138", 46°8'30.806"	1400	E	group pastures	338	20	2	x	3 m	x	<i>Armillaria spp.</i>	moderate	x	x		
34. Tione - Malga Stabio	10°46'27.99", 46°1'4.538"	1480	SO	group pastures	572	7	6	x	2 m	x		high *	x	x		
35. Bolbeno - D'Avre	10°43'11.933", 46°1'6.693"	820	N	isolated pastures	516	1	0					low				
36. Cimego - Malga Caino	10°33'32.797", 45°51'6.494"	780	NO	isolated pastures	435	1	0					moderate	x			
37. Bondone - Caplone	10°35'41.524", 45°48'22.834"	1515	N	isolated wood	491	1	1	x	collar	x		low	x			
38. Ledro - Val Concei	10°44'34.563", 45°56'39.681"	968	S	Garden	476	1	1	x	2 m	x		high				
39. Trento - Maranza	11°10'10.053", 46°1'45.671"	1150	O	isolated wood	428	1	1	x	6 m	x		high *	x	x	x	
40. Villa Lagarina	11° 0' 54.281", 45° 56' 24.382"	834	E	group pastures	250	10	10	x	collar			moderate	x	x		