

Jüriado, I. and Paal, J. 2018. Epiphytic lichen synusiae and functional trait groups of species in boreo-nemoral deciduous forests are influenced by host tree and environmental factors. – Nordic Journal of Botany 36: e1939, 2018

Appendix 1

List of lichen taxa found in floodplain and klint forests in Estonia. Red-listed lichen species in Estonia are notated: EN = endangered, NT = near threatened, VU = vulnerable. Abbrev. = abbreviations of the species names used in ordination analyses. Frequency (%) of taxon on different tree species: Ace pla = *Acer platanoides*, Fra exe = *Fraxinus excelsior*, Que rob = *Quercus robur*, Til cor = *Tilia cordata*, Ulm glam = *Ulmus glabra*, Ulm lae = *U. laevis*. No. of obs = number of observations in all studied trees (n = 213), Freq. of total = frequency % of taxa on all studied trees.

Taxon	Abbrev.	Frequency (%) in forest types		Frequency (%) on tree species						No. of obs	Freq. (%) of total
		Flood-plain (n=133)	Klint (n=80)	Ace pla (n=28)	Fra exc (n=63)	Que rob (n=20)	Til cor (n=39)	Ulm gla (n=42)	Ulm lae (n=21)		
<i>Acrocordia cavata</i> (Ach.) R. C. Harris	Acr cav	2.3	5.0	3.6	7.9	0	0	2.4	0	7	3.3
<i>Acrocordia gemmata</i> (Ach.) A. Massal.	Acr gem	22.6	50.0	53.6	33.3	0	10.3	59.5	23.8	70	32.9
<i>Alyxoria ochrocheila</i> (Nyl.) Ertz & Tehler ^{VU}	Aly och	0	7.5	3.6	3.2	0	0	7.1	0	6	2.8
<i>Alyxoria varia</i> (Pers.) Ertz & Tehler	Aly var	15.0	31.3	46.4	19.0	30.0	10.3	16.7	14.3	45	21.1
<i>Amandinea punctata</i> (Hoffm.)		0	1.3	0	0	0	2.6	0	0	1	0.5

Coppins & Scheid

<i>Anaptychia ciliaris</i> (L.) Körb.	Ana cil	2.3	0	0	0	15.0	0	0	0	3	1.4
<i>Anisomeridium biforme</i> (Borrer & Sowerb.) R. C. Harris	Ani bif	0	7.5	7.1	3.2	0	5.1	0	0	6	2.8
<i>Anisomeridium polypori</i> (Ellis & Everh.) M. E. Barr		1.5	0	0	0	0	0	0	9.5	2	0.9
<i>Arthonia atra</i> (Pers.) A. Schneid ^{NT}		0	21.3	17.9	11.1	0	2.6	9.5	0	17	8.0
<i>Arthonia byssacea</i> (Weigel) Almq. ^{NT}	Art bys	9.0	1.3	0	11.1	30.0	0	0	0	13	6.1
<i>Arthonia didyma</i> Körb. ^{NT}		28.6	20.0	17.9	9.5	60.0	41.0	19.0	33.3	54	25.4
<i>Arthonia mediella</i> Nyl.		1.5	1.3	0	1.6	0	2.6	2.4	0	3	1.4
<i>Arthonia radiata</i> (Pers.) Ach.	Art rad	6.8	25.0	10.7	33.3	0	7.7	4.8	0	29	13.6
<i>Arthonia spadicea</i> Leight.	Art spa	4.5	0	0	0	15.0	5.1	2.4	0	6	2.8
<i>Arthonia vinosa</i> Leight.	Art vin	3.8	2.5	0	0	10.0	7.7	2.4	4.8	7	3.3
<i>Arthothelium ruanum</i> (A. Massal.) Körb.	Arth ru	67.7	66.3	67.9	57.1	50.0	84.6	66.7	81.0	143	67.1
<i>Arthopyrenia</i> spp.	Arto sp	24.1	21.3	28.6	15.9	0	15.4	40.5	38.1	49	23.0
<i>Bacidia arceutina</i> (Ach.) Arnold		3.8	0	0	4.8	0	2.6	2.4	0	5	2.3
<i>Bacidia beckhausii</i> Körb.	Bac bec	8.3	2.5	7.1	7.9	0	0	2.4	23.8	13	6.1
<i>Bacidia fraxinea</i> Lönnr.	Bac fra	12.0	7.5	7.1	14.3	0	2.6	9.5	28.6	22	10.3
<i>Bacidia globulosa</i> (Flörke) Hafellner & V. Wirth	Bac glo	23.3	11.3	3.6	14.3	45.0	15.4	16.7	38.1	40	18.8
<i>Bacidia incompta</i> (Borrer ex Hook.) Anzi		0.8	0	0	0	0	0	0	4.8	1	0.5
<i>Bacidia polychroa</i> (Th. Fr.) Körb.	Bac pol	3.8	0	0	4.8	0	0	2.4	4.8	5	2.3
<i>Bacidia rubella</i> (Hoffm.) A. Massal.	Bac rub	24.8	36.3	32.1	34.9	0	7.7	40.5	52.4	62	29.1
<i>Bacidia subincompta</i> (Nyl.) Arnold	Bac sub	30.8	10.0	14.3	12.7	5.0	12.8	31.0	85.7	49	23.0
<i>Bacidina arnoldiana</i> (Körb.) V. Wirth & Vezda		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Biatora efflorescens</i> (Hedl.) Räsänen	Bia eff	19.5	1.3	0	9.5	20.0	28.2	11.9	4.8	27	12.7
<i>Biatora helvola</i> Körb.	Bia hel	18.8	2.5	14.3	4.8	10.0	38.5	4.8	4.8	27	12.7

<i>Biatora ocelliformis</i> (Nyl.) Arnold		14.3	5.0	3.6	11.1	0	20.5	11.9	9.5	23	10.8
<i>Biatoridium monasteriense</i> J. Lahm ex Körb. ^{NT}	Biat mo	3.0	13.8	21.4	3.2	0	0	16.7	0	15	7.0
<i>Bilimbia sabuletorum</i> (Schreb.) Arnold		0.8	0	0	0	0	0	0	4.8	1	0.5
<i>Buellia disciformis</i> (Fr.) Mudd.	Bue dis	5.3	3.8	3.6	0	0	20.5	2.4	0	10	4.7
<i>Buellia erubescens</i> Arnold		0.8	0	0	0	0	2.6	0	0	1	0.5
<i>Buellia griseovirens</i> (Turner & Borrer ex Sm.) Almb.	Bue gri	51.1	1.3	7.1	27.0	75.0	56.4	19.0	23.8	69	32.4
<i>Buellia schaereri</i> De Not.	Bue sch	10.5	0	0	0	55.0	0	0	14.3	14	6.6
<i>Calicium viride</i> Pers.		0.8	1.3	0	0	5.0	0	2.4	0	2	0.9
<i>Candelariella xanthostigma</i> (Ach.) Lettau		1.5	0	0	1.6	5.0	0	0	0	2	0.9
<i>Chaenotheca brachypoda</i> (Ach.) Tibell	Cha bra	0.8	5.0	3.6	3.2	0	0	2.4	4.8	5	2.3
<i>Chaenotheca chrysocephala</i> (Turner ex Ach.) Th. Fr.		1.5	0	0	0	10.0	0	0	0	2	0.9
<i>Chaenotheca furfuracea</i> (L.) Tibell	Cha fur	1.5	2.5	0	0	5.0	0	4.8	4.8	4	1.9
<i>Chaenotheca subroscida</i> (Eitner) Zahlbr.		0.8	0	0	1.6	0	0	0	0	1	0.5
<i>Chaenotheca trichialis</i> (Ach.) Th. Fr.	Cha tri	3.8	0	0	1.6	20.0	0	0	0	5	2.3
<i>Chaenotheca xyloxena</i> Nád.v.		0.8	1.3	0	0	5.0	0	2.4	0	2	0.9
<i>Chaenothecopsis pusilla</i> (Ach.) A. F. W. Schmidt		0	1.3	0	0	0	0	2.4	0	1	0.5
<i>Chaenothecopsis rubescens</i> Vain.		0.8	0	0	1.6	0	0	0	0	1	0.5
<i>Chrysothrix candelaris</i> (L.) J. R. Laundon		1.5	0	0	3.2	0	0	0	0	2	0.9
<i>Cladonia coniocraea</i> (Flörke) Spreng.	Cla con	8.3	1.3	0	1.6	15.0	20.5	0	0	12	5.6
<i>Cladonia fimbriata</i> (L.) Fr.		8.3	1.3	0	1.6	10.0	12.8	7.1	4.8	12	5.6

<i>Cliostomum griffithii</i> (Sm.) Coppins	Cli gri	1.5	10.0	0	4.8	0	12.8	4.8	0	10	4.7
<i>Coenogonium pineti</i> (Ach.) Lücking & Lumbsch	Coe pin	15.8	2.5	0	0	40.0	28.2	9.5	0	23	10.8
<i>Collema</i> sp.		0.8	0	0	0	0	0	2.6	0	1	0.5
<i>Diplotomma pharcidium</i> (Ach.) M. Choisy		0	1.3	3.6	0	0	0	0	0	1	0.5
<i>Eopyrenula leucoplaca</i> (Wallr.) R. C. Harris ^{EN}		0	1.3	3.6	0	0	0	0	0	1	0.5
<i>Evernia prunastri</i> (L.) Ach.	Eve pru	13.5	0	0	9.5	45.0	5.1	2.4	0	18	8.5
<i>Graphis scripta</i> (L.) Ach.	Gra scr	62.4	62.5	64.3	57.1	60.0	84.6	47.6	66.7	133	62.4
<i>Gyalecta truncigena</i> (Ach.) Hepp	Gya tru	3.8	3.8	10.7	4.8	0	0	4.8	0	8	3.8
<i>Haematomma ochroleucum</i> (Neck.) J. R. Laundon	Hae och	14.3	0	7.1	14.3	15.0	2.6	2.4	14.3	19	8.9
<i>Hypogymnia physodes</i> (L.) Nyl.	Hyp phy	30.1	1.3	0	20.6	85.0	20.5	4.8	4.8	41	19.2
<i>Hypogymnia tubulosa</i> (Schaer.) Hav.		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Lecania cyrtella</i> (Ach.) Th. Fr.	Len cyr	5.3	11.3	14.3	6.3	0	0	11.9	14.3	16	7.5
<i>Lecania naegelii</i> (Hepp) Diederich & Van den Boom	Len nae	0.8	6.3	0	7.9	0	0	2.4	0	6	2.8
<i>Lecanora allophana</i> Nyl.		5.3	0	0	6.3	0	2.6	2.4	4.8	7	3.3
<i>Lecanora argentata</i> (Ach.) Malme		27.8	21.3	42.9	36.5	25.0	17.9	4.8	23.8	54	25.4
<i>Lecanora carpinea</i> (L.) Vain.	Leca ca	14.3	2.5	0	6.3	50.0	15.4	0	4.8	21	9.9
<i>Lecanora chlarotera</i> Nyl.		12.0	13.8	10.7	17.5	15.0	15.4	9.5	0	27	12.7
<i>Lecanora conizaeoides</i> Nyl. ex Cromb.		0	1.3	0	0	0	2.6	0	0	1	0.5
<i>Lecanora expallens</i> Ach.	Leca ex	3.8	12.5	0	4.8	0	25.6	4.8	0	15	7.0
<i>Lecanora intumescens</i> (Rebent.) Rabenh. ^{VU}		0	2.5	0	0	0	5.1	0	0	2	0.9
<i>Lecanora leptyrodes</i> (Nyl.) Degel.	Leca le	7.5	1.3	0	6.3	5.0	10.3	0	9.5	11	5.2
<i>Lecanora pulicaris</i> (Pers.) Ach.	Leca pu	9.0	0	0	0	30.0	15.4	0	0	12	5.6
<i>Lecanora rugosella</i> Zahlbr.		1.5	0	0	1.6	0	2.6	0	0	2	0.9

<i>Lecanora symmicta</i> (Ach.) Ach.	Leca sy	1.5	5.0	0	1.6	0	5.1	4.8	4.8	6	2.8
<i>Lecidea albohyalina</i> (Nyl.) Th. Fr.	Leci al	3.8	2.5	0	4.8	0	0	2.4	14.3	7	3.3
<i>Lecidea erythrophaea</i> Flörke ex Sommerf. ^{NT}	Leci er	6.0	2.5	3.6	6.3	0	2.6	2.4	14.3	10	4.7
<i>Lecidella elaeochroma</i> (Ach.) M. Choisy	Led ela	47.4	68.8	78.6	65.1	25.0	53.8	40.5	57.1	118	55.4
<i>Lepraria eburnea</i> J. R. Laundon		3.8	5.0	7.1	0	5.0	10.3	4.8	0	9	4.2
<i>Lepraria elobata</i> Tønsberg		0	2.5	0	0	0	2.6	2.4	0	2	0.9
<i>Lepraria incana</i> (L.) Ach.	Lep inc	6.0	6.3	0	3.2	25.0	10.3	4.8	0	13	6.1
<i>Lepraria jackii</i> Tønsberg	Lep jac	2.3	0	0	1.6	0	2.6	2.4	0	3	1.4
<i>Lepraria lobificans</i> Nyl.	Lep lob	54.1	61.3	60.7	55.6	40.0	59.0	66.7	47.6	121	56.8
<i>Lepraria vouauxii</i> (Hue) R.C. Harris		0.8	0	0	0	0	2.6	0	0	1	0.5
<i>Lobaria pulmonaria</i> (L.) Hoffm. ^{NT}	Lob pul	4.5	0	0	7.9	0	0	0	4.8	6	2.8
<i>Loxospora elatina</i> (Ach.) A. Massal.		0.8	0	0	0	0	2.6	0	0	1	0.5
<i>Melanelixia glabratula</i> (Lamy) Sandler & Arup		24.8	3.8	7.1	20.6	15.0	35.9	4.8	9.5	36	16.9
<i>Melanohalea olivacea</i> (L.) O. Blanco, A. Crespo, Divakar, Essl, D. Hawksw. & Lumbsch		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Melanelixia subargentifera</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch		0.8	0	0	0	0	0	0	4.8	1	0.5
<i>Melanelixia subaurifera</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch		16.5	11.3	3.6	12.7	40.0	10.3	9.5	28.6	31	14.6
<i>Micarea prasina</i> Fr.	Mic pra	27.8	1.3	0	6.3	35.0	43.6	14.3	19.0	38	17.8
<i>Mycobilimbia carneoalbida</i> (Müll. Arg.) S. Ekman & Printzen		0	1.3	0	1.6	0	0	0	0	1	0.5
<i>Mycobilimbia epixanthoides</i> (Nyl.)	Myc epi	13.5	1.3	0	9.5	0	7.7	19.0	9.5	19	8.9

Vitik., Ahti, Kuusinen, Lommi & T.

Ulvinen

<i>Ochrolechia alboflavescens</i>		0.8	0	0	1.6	0	0	0	0	1	0.5
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(Wulfen) Zahlbr.

<i>Ochrolechia androgyna</i> (Hoffm.) Arnold	Och and	9.0	1.3	3.6	1.6	25.0	15.4	0	0	13	6.1
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Arnold

<i>Ochrolechia arborea</i> (Kreyer) Almb.	Och arb	2.3	0	0	3.2	0	2.6	0	0	3	1.4
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Opegrapha vulgata Ach.

Ope vul

0.8	26.3	17.9	7.9	0	17.9	11.9	0	22	10.3
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Pachyphiale fagicola (Hepp)

1.5	0	0	0	0	0	0.0	9.5	2	0.9
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Zwackh

Parmelia sulcata Taylor

Par sul

25.6	0	0	20.6	40.0	17.9	7.1	14.3	34	16.0
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Parmeliopsis ambigua (Wulfen) Nyl.

1.5	0	0	1.6	5.0	0	0	0	2	0.9
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Peltigera canina (L.) Willd.

0.8	0	0	1.6	0	0	0	0	1	0.5
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Peltigera praetextata (Flörke ex

Sommerf.) Zopf

6.8	1.3	3.6	11.1	5.0	0	2.4	0	10	4.7
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Pertusaria albescens (Huds.) M.

1.5	0	0	0	5.0	0	0	4.8	2	0.9
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Choisy & Werner

Pertusaria amara (Ach.) Nyl.

Per ama

28.6	5.0	3.6	15.9	50.0	46.2	4.8	4.8	42	19.7
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Pertusaria coccodes (Ach.) Nyl.

Per coc

7.5	0	0	1.6	15.0	10.3	0	9.5	10	4.7
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Pertusaria coronata (Ach.) Th. Fr.

0.8	0	0	0	5.0	0	0	0	1	0.5
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Pertusaria flavida (DC.) J. R.

Per fla

6.8	0	0	1.6	35.0	0	0	4.8	9	4.2
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Laundon

Pertusaria hemisphaerica (Flörke)

Per hem

3.0	0	0	1.6	15.0	0	0	0	4	1.9
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Erichsen

Pertusaria leioplaca DC.

Per lei

3.0	45.0	35.7	27.0	0	17.9	11.9	4.8	40	18.8
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Pertusaria leucostoma A. Massal.

Per leu

9.8	0	3.6	7.9	5.0	5.1	2.4	14.3	13	6.1
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Pertusaria pertusa (Weigel) Tuck.

Per per

0	5.0	7.1	1.6	0	2.6	0	0	4	1.9
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Phaeophyscia nigricans (Flörke)

Pha nig

3.8	0	0	0	0	0	2.4	19.0	5	2.3
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Moberg

<i>Phaeophyscia orbicularis</i> (Neck.) Moberg	Pha orb	3.8	2.5	3.6	0	0	0	4.8	19.0	7	3.3
<i>Phlyctis agelaea</i> (Ach.) Flot.	Phl age	30.1	5.0	28.6	30.2	15.0	7.7	11.9	28.6	44	20.7
<i>Phlyctis argena</i> (Spreng.) Flot.	Phl arg	98.5	35.0	53.6	69.8	95.0	82.1	64.3	104.8	159	74.6
<i>Physcia adscendens</i> (Fr.) H. Olivier	Phy ads	2.3	0	0	0	0	0	0	14.3	3	1.4
<i>Physcia tenella</i> (Scop.) DC.		2.3	0	0	3.2	5.0	0	0	0	3	1.4
<i>Physconia distorta</i> (With.) J. R. Laundon		0.8	0	0	1.6	0	0	0	0	1	0.5
<i>Platismatia glauca</i> (L.) W. L. Culb. & C. F. Culb.		1.5	0	0	0	10.0	0	0	0	2	0.9
<i>Placynthiella icmalea</i> (Ach.) Coppins & P. James		0	1.3	0	0	0	2.6	0	0	1	0.5
<i>Pseudosagedia aenea</i> (Wallr.) Hafellner & Kalb.	Pse aen	0	3.8	7.1	1.6	0	0	0	0	3	1.4
<i>Pseudoschismatomma rufescens</i> (Pers.) Ertz & Tehler	Pse ruf	51.1	72.5	64.3	66.7	30.0	56.4	57.1	66.7	126	59.2
<i>Pseudevernia furfuracea</i> (L.) Zopf		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Pyrenula laevigata</i> (Pers.) Arnold ^{VU}		0.8	0	0	1.6	0	0	0	0	1	0.5
<i>Pyrenula nitidella</i> (Flörke ex Schraer.) Müll. Arg. ^{VU}		0	2.5	0	1.6	0	0	2.4	0	2	0.9
<i>Pyrrhospora quernea</i> (Dicks.) Körb. Ramalina baltica Lettau	Pyr que	2.3	0	0	0	15.0	0	0	0	3	1.4
<i>Ramalina baltica</i> Lettau		1.5	0	0	1.6	5.0	0	0	0	2	0.9
<i>Ramalina farinacea</i> (L.) Ach.	Ram far	46.6	5.0	3.6	27.0	90.0	38.5	11.9	47.6	66	31.0
<i>Ramalina fastigiata</i> (Pers.) Ach.		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Ramalina fraxinea</i> (L.) Ach.		0.8	0	0	0	0	2.6	0	0	1	0.5
<i>Ramalina pollinaria</i> (Westr.) Ach.		0.8	0	0	0	5.0	0	0	0	1	0.5
<i>Schismatomma pericleum</i> (Ach.) Branth & Rostr.		0	1.3	0	0	0	2.6	0	0	1	0.5
<i>Sclerophora coniophaea</i> (Norman) J. Mattsson & Middelb. ^{NT}		0.8	0	0	0	5.0	0	0	0	1	0.5

<i>Sclerophora nivea</i> (Hoffm.) Tibell	0.8	0	0	0	0	0	2.4	0	1	0.5
<i>Scytinium lichenodes</i> (L.) Otálora, P. M. Jørg. & Wedin	0.8	1.3	0	3.2	0	0	0	0	2	0.9
<i>Tephromela atra</i> (Huds.) Hafellner ex Kalb	1.5	0	0	3.2	0	0	0	0	2	0.9
<i>Thelotrema lepadinum</i> (Ach.) Ach. ^{NT}	0.8	0	0	0	0	2.6	0	0	1	0.5
<i>Violella fucata</i> (Stirt.) T. Sprib.	1.5	0	0	3.2	0	0	0	0	2	0.9
<i>Xanthoria parietina</i> (L.) Th. Fr.	0.8	0	0	0	0	0	0	4.8	1	0.5
<i>Zwackhia viridis</i> (Ach.) Poetsch & Schied. ^{VU}	1.5	1.3	0	4.8	0	0	0	0	3	1.4

Appendix 2

Centroids of societies. Presented are species having at least in one society mean abundance more than 0.1%.

Taxa	Society type												
	1	2	3	4	5	6	7	8	9	10	11	12	13
<i>Acrocordia cavata</i>	–	–	<0.1	–	–	–	–	0.5	–	–	–	0.4	–
<i>Acrocordia gemmata</i>	0.4	–	5.9	0.1	2.7	0.5	12.0	3.4	4.2	0.9	<0.1	0.2	3.2
<i>Alyxoria ochrocheila</i>	–	–	0.8	–	0.1	–	–	–	–	–	–	–	0.5
<i>Alyxoria varia</i>	0.1	<0.1	1.0	2.1	1.0	–	–	37.7	–	–	–	0.9	3.1
<i>Anisomeridium biforme</i>	–	–	0.6	–	1–	–	–	–	0.3	–	–	–	0.7
<i>Arthonia atra</i>	–	–	<0.1	4.2	–	–	–	–	0.1	–	0.4	0.8	2.0
<i>Arthonia byssacea</i>	<0.1	–	–	11.9	–	–	0.2	–	–	–	–	–	–
<i>Arthonia didyma</i>	0.6	0.2	<0.1	2.7	0.1	0.1	0.3	–	–	0.3	0.2	0.8	0.1
<i>Arthonia radiata</i>	0.6	0.3	–	0.7	0.9	2.0	0.1	–	–	–	<0.1	1.8	0.4
<i>Arthonia spadicea</i>	0.1	<0.1	–	–	–	–	–	–	–	–	–	–	–
<i>Arthonia vinosa</i>	–	–	–	–	0.1	–	–	0.1	–	1.4	–	–	–
<i>Arthopyrenia spp.</i>	–	0.6	3.2	–	<0.1	–	–	–	32.1	0.3	0.3	–	0.2
<i>Arthothelium ruanum</i>	0.8	0.2	2.4	0.2	11.3	0.2	1.1	–	–	1.4	1.9	2.0	0.7
<i>Bacidia beckhausii</i>	–	<0.1	–	–	–	0.5	0.2	–	–	1.0	–	1.1	0.8
<i>Bacidia fraxinea</i>	0.1	<0.1	0.6	–	0.7	0.4	2.7	1.7	–	–	–	–	<0.1
<i>Bacidia globulosa</i>	1.1	0.3	0.9	<0.1	1.3	9.8	–	–	–	0.8	0.8	0.4	–
<i>Bacidia rubella</i>	0.6	0.2	37.9	0.1	2.8	–	0.9	4.2	–	0.3	–	0.1	3.1
<i>Bacidia subincompta</i>	2.4	<0.1	–	0.3	–	–	2.5	–	–	24.5	0.2	0.9	–
<i>Biatora efflorescens</i>	0.3	0.2	–	1.4	–	–	–	–	0.1	–	–	–	–
<i>Biatora helvola</i>	0.1	0.6	–	0.1	–	–	–	–	–	–	0.2	–	–
<i>Biatora ocelliformis</i>	0.6	0.1	–	1.7	0.5	–	–	–	–	0.2	<0.1	<0.1	<0.1
<i>Biatoridium monasteriense</i>	–	–	–	3.3	0.4	–	–	–	–	0.2	–	<0.1	–
<i>Buellia griseovirens</i>	1.4	2.3	–	0.1	<0.1	1.0	–	–	–	–	2.2	0.4	<0.1
<i>Buellia schaeereri</i>	0.1	1.3	–	0.2	–	0.1	–	–	–	0.2	–	–	–

<i>Cladonia coniocraea</i>	–	3.8	–	0.2	–	–	–	–	–	–	–	–	–
<i>Cladonia fimbriata</i>	<0.1	–	–	–	–	–	–	–	–	–	1.0	–	–
<i>Cliostomum griffithii</i>	0.3	–	–	<0.1	1.5	0.1	–	–	–	–	–	0.1	–
<i>Coenogonium pineti</i>	0.4	0.1	–	<0.1	–	–	0.1	–	–	–	0.2	–	–
<i>Evernia prunastri</i>	<0.1	<0.1	–	–	–	0.1	–	–	–	–	–	–	–
<i>Graphis scripta</i>	1.7	2.0	1.0	1.5	2.6	3.3	0.2	–	–	0.6	25.5	0.9	2.9
<i>Gyalecta truncigena</i>	–	–	–	–	–	–	0.5	–	1.0	–	–	–	<0.1
<i>Haematomma ochroleucum</i>	–	<0.1	–	3.3	–	0.2	–	–	–	–	–	–	0.1
<i>Hypogymnia physodes</i>	0.1	1.2	–	0.1	–	2.7	–	–	–	–	<0.1	0.1	–
<i>Lecanora argentata</i>	0.6	0.1	0.1	5.8	1.0	1.0	0.3	–	–	–	1.0	<0.1	0.1
<i>Lecanora carpinea</i>	<0.1	0.1	–	0.3	–	0.2	–	–	–	–	<0.1	0.3	–
<i>Lecanora chlarotera</i>	<0.1	0.1	–	–	–	–	–	–	–	–	0.2	0.4	0.1
<i>Lecanora expallens</i>	<0.1	<0.1	–	<0.1	–	0.2	–	0.2	–	–	–	–	–
<i>Lecanora leptyrodes</i>	<0.1	0.1	–	<0.1	–	0.1	–	–	–	–	–	0.2	–
<i>Lecanora pulicaris</i>	–	0.1	–	–	–	0.1	–	–	–	–	0.2	–	–
<i>Lecanora symmicta</i>	–	–	0.2	<0.1	–	–	–	–	–	–	<0.1	–	–
<i>Lecidea albohyalina</i>	0.1	–	<0.1	–	4.0	–	–	–	–	–	–	–	<0.1
<i>Lecidea erythrophaea</i>	–	–	<0.1	0.1	–	0.1	–	–	–	–	–	–	–
<i>Lecidella elaeochroma</i>	1.0	1.1	0.3	1.8	0.3	3.1	0.2	–	2.5	0.9	4.8	40.2	4.3
<i>Lecania cyrtella</i>	–	–	–	0.1	–	–	–	0.7	0.1	–	–	0.1	1.2
<i>Lepraria eburnea</i>	0.1	–	<0.1	–	0.2	–	–	–	–	–	<0.1	–	–
<i>Lepraria incana</i>	0.2	0.1	–	0.9	1.7	–	–	–	–	–	<0.1	–	–
<i>Lepraria lobificans</i>	0.7	2.4	0.8	1.7	<0.1	4.2	20.4	3.5	0.1	0.2	0.2	<0.1	<0.1
<i>Melanelixia glabratula</i>	0.4	2.2	–	<0.1	–	0.2	–	–	–	0.1	0.2	0.1	–
<i>Melanelixia subaurifera</i>	0.8	0.1	–	0.7	<0.1	0.2	–	–	–	–	0.5	0.1	–
<i>Micarea prasina</i>	1.4	4.2	–	<0.1	–	0.7	0.5	–	–	–	0.5	–	–
<i>Mycobilimbia epixanthoides</i>	0.2	–	–	0.4	0.3	–	–	–	33.3	–	<0.1	–	–
<i>Ochrolechia androgyna</i>	–	2.8	<0.1	–	–	0.2	–	–	–	–	–	–	–
<i>Opegrapha vulgata</i>	0.6	–	<0.1	0.7	12.0	–	–	–	–	–	1.2	<0.1	–
<i>Parmelia sulcata</i>	0.2	0.3	–	0.1	–	1.8	–	–	–	–	1.0	–	–

<i>Pertusaria amara</i>	0.4	2.9	–	1.9	–	1.2	–	–	–	–	–	–	<0.1
<i>Pertusaria coccodes</i>	0.1	0.1	–	–	–	0.1	–	–	–	–	–	–	–
<i>Pertusaria hemisphaerica</i>	0.1	0.1	–	–	–	–	–	–	–	–	–	–	–
<i>Pertusaria leioplaca</i>	<0.1	0.3	0.4	0.1	1.5	–	0.2	–	–	–	<0.1	0.4	1.4
<i>Pertusaria leucostoma</i>	0.1	–	–	–	–	0.1	–	–	–	–	–	0.1	–
<i>Pertusaria pertusa</i>	–	–	<0.1	1.1	–	–	–	–	–	–	–	–	0.1
<i>Phaeophyscia orbicularis</i>	0.1	–	–	0.3	–	–	–	–	0.1	–	–	–	–
<i>Phaeophyscia nigricans</i>	<0.1	–	–	0.2	–	–	–	–	–	–	–	–	–
<i>Phlyctis agelaea</i>	1.2	0.8	0.3	0.3	0.1	18.3	–	–	–	1.5	–	1.6	0.1
<i>Phlyctis argena</i>	46.1	26.0	3.9	4.4	3.4	17.1	4.0	6.0	1.8	7.8	10.9	1.5	2.7
<i>Pseudoschismatomma rufescens</i>	1.3	4.7	3.5	2.0	0.9	1.3	–	5.1	1.7	0.4	1.6	12.6	44.8
<i>Ramalina farinacea</i>	0.3	1.5	<0.1	0.8	<0.1	0.3	–	–	–	–	0.7	<0.1	<0.1