

Supporting Information

Table 1 Structure (%) of nematode communities (D-deciduous forest, G-grasslands, C-coniferous forest; hbs-hornbeam-sessile oak, hb-hornbeam-beech, p-Scots pine, a-black alder)

Natura 2000 site	Cheile Turzii ROSCI0035							Trascău ROSCI0253	Cheile Turenilor ROSCI0034		
	1	2	3	4	5	6	7	8	9	10	11
Ecosystem type	D, hbs	G	G	G	D, hbs	D, hb	C, p	G	G	D, hbs	D, a
Natura 2000 habitat type	91Y0	6190	6190	6240*	91Y0	9130	91Q0	6520	6190	91Y0	91E0*
<i>Acrobeles ciliatus</i>											1.1
<i>A. complexus</i>	0.1	1.3	2.6		0.2	0.1	0.1		8.4	0.1	
<i>Acrobeloides nanus</i>	2.0	0.4	0.7	5.1	1.9	0.7	0.9	1.7	0.8	0.4	0.8
<i>Acrolobus emarginatus</i>										0.2	
<i>Aglenchus agricola</i>											1.4
<i>Alaimus</i> sp.	0.2				0.7	0.1		0.2		0.3	0.2
<i>A. meylli</i>								0.1			
<i>A. primitivus</i>							0.2	0.1			
<i>Allodorylaimus</i> sp.			0.2	0.4					0.5		
<i>Amplimerlinius</i> sp.		2.7	0.6						0.1	0.8	
<i>Anaplectus granulatus</i>	0.5		0.2		0.3	0.1	3.1	0.5		0.5	0.2
<i>Anatonchus</i> sp.			0.7		0.1						
<i>Aphelenchoides</i> sp.	32.5	12.9	7.5	7.6	20.3	23.9	6.8	4.3	9.7	23.6	2.6
<i>Aphelenchus avenae</i>		2.2	5.5	3.4	0.3	0.2			1.8	0.6	0.3
<i>Aporcelaimellus obtusicaudatus</i>	1.6		1.3	0.8	0.5	1.0	3.2	2.6	2.6	1.6	0.5
<i>Aporcelaimus</i> sp.									0.1		
<i>Aulolaimus</i> sp.										0.2	
<i>Axonchium</i> sp.									0.3	0.2	
<i>Bastiania gracilis</i>					2.0	0.4	3.0	0.4		0.2	0.6
<i>B. longicaudata</i>					0.1	0.1	0.1				
<i>Boleodorus thylactus</i>	1.7						0.8		0.1	1.8	1.1
<i>Bunonema reticulatum</i>	1.1						0.7	7.5		0.2	
<i>B. richtersi</i>	0.2							0.5			
<i>Cephalobus</i> sp.	0.2	2.2	2.0	1.3	0.5	0.3	5.6	0.2	2.6	0.8	1.8
<i>C. persegnis</i>	0.1							0.4			
<i>Ceratoplectus armatus</i>								0.2		0.1	0.5
<i>C. assimilis</i>								0.7			
<i>Chiloplacus symmetricus</i>	0.1	1.3	1.5	1.7	0.3	0.4	0.1		0.2	0.1	
<i>Clarkus papillatus</i>	0.1						0.7	0.8		0.2	
<i>Coslenchus costatus</i>									1.8	0.1	1.5
<i>Criconema</i> sp.	0.2		0.4			0.2	0.1		1.4	0.6	4.1
<i>Cylindrolaimus communis</i>							0.2				
<i>Deladenus durus</i>	0.4						0.2		0.1	0.4	
<i>Diphtherophora communis</i>					0.1					0.8	2.0
<i>D. brevicolle</i>			0.4	0.4		0.4				0.4	
<i>Ditylenchus</i> sp.	1.3	0.4	2.8	1.3	7.2	19.2	0.6	5.5	1.0	2.9	1.8
<i>Dorylaimellus</i> sp.								0.2			
<i>Dorylaimida sensu lato</i>		10.2	3.3	9.3	0.2	0.4					0.3
<i>Dorylaimoides</i> sp.				3.0	0.1		0.2				
<i>Ecphyadophora tenuisssima</i>						0.1					
<i>Ecumenicus monohystera</i>		0.9							0.1		
<i>Enchodelus macrodorus</i>	0.2								0.5		
<i>Epidorylaimus</i> sp.	0.1				0.3	0.2	0.2			0.1	
<i>Eucephalobus oxyuroides</i>	0.4	1.8	2.8	0.8	1.9	2.0	5.1	0.1		1.3	1.2
<i>E. striatus</i>											2.0
<i>Eudorylaimus</i> sp.	1.7	2.2	4.0	10.1	0.4	0.8	2.9	0.9	9.4	1.1	0.9
<i>E. carteri</i>								0.4			
<i>E. leuckarti</i>							0.1			0.1	
<i>E. opisthystera</i>	0.1										
<i>Eumonhystera filiformis</i>			0.2		0.2		0.1	0.1			
<i>E. vulgaris</i>	0.1						0.2		0.4	0.4	0.5
<i>Filenchus</i> sp.	4.2	2.2	2.2	6.8	17.3	25.2	19.2	6.8	7.1	22.1	11.9
<i>F. vulgaris</i>							0.1	0.8			
<i>Geocenamus</i> sp.		0.4	10.1	1.3							

Table 1 (continuation)

Natura 2000 site	Cheile Turzii ROSCI0035							Trascău ROSCI0253	Cheile Turenilor ROSCI0034		
	1	2	3	4	5	6	7	8	9	10	11
Ecosystem type	D, hbs G		G	G	D, hbs D, hb		C, p	G	G	D, hbs	D, a
Natura 2000 habitat type	91Y0	6190	6190	6240*	91Y0	9130	91Q0	6520	6190	91Y0	91E0*
<i>Geomonhystera villosa</i>	0.2		2.9	0.4	0.5	1.2	0.6		0.1	0.5	
<i>Gracilacus</i> sp.					0.1				0.6	1.1	0.5
<i>Helicotylenchus</i> sp.			0.9		0.8			2.2	9.5	1.7	5.9
<i>Hemicriconemoides</i> sp.						0.1					
<i>Heterocephalobus elongatus</i>	0.4		0.4		0.3	0.4	1.0	1.2		1.2	
<i>Heterodera</i> sp.											0.6
<i>Laimaphelenchus</i> sp.		0.9	2.0								
<i>Laimydorus</i> sp.				0.4							
<i>Lelenchus leptosoma</i>	0.2				0.2	0.1	0.2	1.1		0.3	
<i>Longidorella parva</i>			0.2	0.8		0.2	0.9		1.5	0.2	
<i>Malenchus bryophilus</i>			0.2		3.5	4.3	2.0	9.4		4.0	2.1
<i>Mesocriconema rusticum</i>		0.9	0.2		0.9	2.6			0.5		15.7
<i>Mesodorylaimus bastiani</i>		0.4			1.7	0.1	0.4	0.2	0.2	0.9	0.3
<i>M. subtiliformis</i>											0.3
<i>Mesorhabditis</i> sp.	6.9									0.5	2.0
<i>Metateratocephalus crassidens</i>	0.1		0.2		1.1	0.2		0.9	0.1		
<i>Microdorylaimus</i> sp.										0.1	
<i>Mononchus</i> sp.								0.2			
<i>Mylonchulus brachyuris</i>					0.1	0.1	0.3		0.2		0.2
<i>M. sigmaturus</i>											0.2
<i>Nygolaimus</i> sp.		0.4							0.3		0.5
<i>Odontolaimus chlorurus</i>									0.1	0.1	0.2
<i>Ogma menzeli</i>	0.1				0.4	0.1	0.3				
<i>Oxydirus oxycephalus</i>										0.1	
<i>Panagrolaimus rigidus</i>	6.7	0.9	7.2	1.7	4.5	1.2	0.3	0.1	2.0	1.5	3.2
<i>P. subelongatus</i>	1.0						0.6				
<i>P. verrucosus</i>								0.3			
<i>Paractinolaimus</i> sp.									0.1		
<i>Paramphidelus</i> sp.	0.1	0.9	0.2			0.1	0.3			0.2	
<i>P. dolichurus</i>							0.2				
<i>P. uniformis</i>							0.3				
<i>Paraphelenchus pseudoparietinus</i>					4.6	0.1			0.8	0.4	
<i>Paratylenchus</i> sp.			0.6	0.4				1.3		0.4	2.0
<i>Paraxonchium laetificans</i>			0.2	0.4		0.2			0.3		
<i>Plectus</i> sp.	2.9	3.1	4.6	8.0	7.7	6.3	6.2	6.5	5.1	8.4	2.0
<i>P. acuminatus</i>	0.5						0.1	4.2		0.7	
<i>P. geophilus</i>	0.4							0.5		0.8	
<i>P. longicaudatus</i>	0.1						0.1	2.2			0.8
<i>P. parietinus</i>	0.1										
<i>P. parvus</i>	9.4						7.9	0.2		3.5	0.9
<i>P. rhizophilus</i>								0.1			
<i>P. silvaticus</i>	2.2						0.4	1.2		0.1	
<i>Pratylenchus</i> sp.			0.6		0.1			0.2	0.1		
<i>Prionchulus muscorum</i>	0.1						0.2				
<i>P. punctatus</i>					0.1			0.1	0.1	0.2	
<i>Prismatolaimus intermedius</i>		0.4	1.7	2.5	0.6	0.4	0.2	2.7	1.5		0.2
<i>Pristionchus lherithieri</i>	0.2				0.7						
<i>Prodorylaimium brigdammense</i>								0.4		0.1	0.6
<i>Protorhabditis</i> sp.										0.9	0.3
<i>Psilenchus</i> sp.											0.2
<i>Pungentus silvestris</i>								0.7			0.5
Rhabditidae-dauer larvae		0.4			7.1	1.7					
<i>Rhabditis</i> sp.	10.8				1.3		5.3	1.2		0.9	3.8
<i>Rhabdolaimus terrestris</i>		1.8	0.2	3.8					1.2	0.1	
<i>Rotylenchus robustus</i>			10.8	3.4	5.2		0.1	20.2	2.2	0.3	2.7
<i>Takamangai</i> sp.	0.4				0.2	0.1			0.5	0.2	0.5
<i>Teratocephalus costatus</i>								0.1			
<i>T. tenuis</i>		0.4	0.9		1.4	0.2	0.7				0.2

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Natura 2000 site	Cheile Turzii ROSCI0035								Trascău ROSCI0253	Cheile Turenilor ROSCI0034		
	1	2	3	4	5	6	7	8	9	10	11	
Site	D, hbs	G	G	G	D, hbs	D, hb	C, p	G	G	D, hbs	D, a	
Natura 2000 habitat type	91Y0	6190	6190	6240*	91Y0	9130	91Q0	6520	6190	91Y0	91E0*	
<i>T. terrestris</i>	0.1							0.4		1.2	0.1	
<i>Trichodorus</i> sp.	0.1							0.2			0.2	
<i>Tripyla affinis</i>	0.1		0.4	3.8		0.8		0.9	0.1	0.3		
<i>T. filicaudata</i>								0.3	1.5			
<i>T. setifera</i>								0.3	0.8	0.1		
<i>Tripylina arenicola</i>		4.0				2.6			2.0		0.2	
<i>Trophurus sculptus</i>								0.1			0.2	
Tylenchida sensu lato		0.4										
<i>Tylencholaimellus striatus</i>								0.5			0.2	
<i>Tylencholaimus minimus</i>		0.9		1.7	0.9	0.1		0.1		0.4	1.5	
<i>T. minutus</i>	0.1							0.1		1.1		
<i>T. mirabilis</i>	0.1								0.9		0.8	
<i>T. stecki</i>	0.2							1.3	0.1			
<i>Tylenchorhynchus</i> sp.		29.8	11.0	6.8				0.1		13.2	0.2	
<i>Tylenchus</i> sp.	0.1	0.4	1.5	3.4	1.1	0.1	1.3	0.3	0.4	0.2		
<i>T. davainei</i>	0.1											
<i>Tylocephalus auriculatum</i>	5.0						3.0	0.9	1.2	3.5		
<i>Tylolaimophorus</i> sp.		7.6	1.8	6.8		0.3						
<i>Wilsonema otophorum</i>			0.6	1.7		0.1	5.1	1.5	2.7	0.6	1.2	
<i>Xenocriconemella macrodora</i>	0.9						0.3			0.7		
<i>Ypsylonellus vexilliger</i>	0.1	4.9	2.0	0.8		0.1	1.7		2.0	0.6	0.3	
Total number of taxa	54	32	44	32	46	47	61	58	51	69	57	