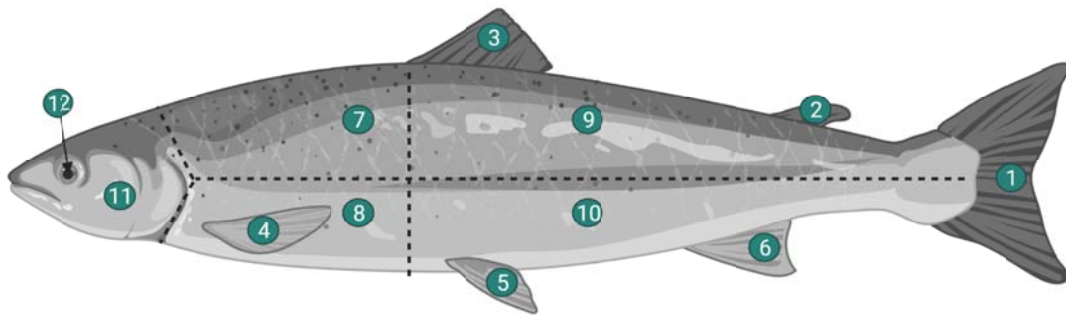


Supplementary Material

Supplementary data 1: Infection with encysted metacercariae reporting data of the different infected samples, according to fish areas : (1) caudal fin, (2) 2nd dorsal fin, (3) 1st dorsal fin, (4) pectoral fin, (5) pelvic fin, (6) anal fin, (7) dorsofrontal area, (8) ventrofrontal area, (9) dorsoposterior area, (10) ventroposterior area, (11) opercula, and (12) eye. Bold letters indicate cases in which the average numbers of observed black spots are the 5th highest of each fish species (R: right side, L: left side).

	R/L1	R/L2	R/L3	R4	R/L5	R6	R7	R8	R9	R10	R11	R12	L4	L6	L7	L8	L9	L10	L11	L12
Whiting	1.6	0.6	1.3	1.3	0.0	0.2	6.6	1.0	8.5	2.2	3.0	0.4	1.0	0.0	6.9	1.1	8.2	1.5	3.0	0.5
Sprat	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.1	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
Pout	1.0	0.9	1.5	1.0	0.1	0.4	5.5	1.0	5.8	1.6	1.8	0.2	0.8	0.0	5.0	1.3	5.5	1.6	1.5	0.2
Dab	0.2	0.2	0.0	0.1	0.0	0.1	0.2	0.1	1.4	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Flounder	2.9	1.0	0.0	0.1	0.1	0.9	0.2	0.0	1.2	1.2	0.0	0.0	0.1	0.0	0.2	0.1	0.4	0.5	0.1	0.0
Plaice	0.8	0.3	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
All species	1.4	0.6	0.8	0.7	0.0	0.4	3.7	0.6	4.8	1.5	1.5	0.2	0.6	0.0	3.7	0.7	4.4	1.0	1.5	0.2



Supplementary data 2: Summary of BLAST analysis results on the *cox1* gene and ITS region of rDNA sequences; *: number of sequences from parasites isolated in the present study.

	Accession numbers	Reference	Average Query cover	Average % identity	Nb of sequences*
<i>cox1</i> gene					
<i>C. lingua</i>	EU876357, EU876365, EU876374, EU876382, EU876409, EU876411, EU876423, EU876427, EU876435, EU876457, EU876489, EU876496, EU876497, EU876502	Blakeslee <i>et al.</i> [1]	98%	99.41%	72
	KJ711862, KJ711864, KJ711865, KJ711866	Borges <i>et al.</i> [2]	99%	99.83%	928
	MW361241	Gorbushin and Tolstenkov [6]	99%	98.67%	14
<i>C. concava</i>	MT422312, MT422306	Gonchar [5]	86%	99.50%	4
<i>Langeronia macrocirra</i>	HM853563	Martínez-Salazar and León-Règagnon [9]	41.9%	80.22%	6
<i>Neoplagioporus elongatus</i>	LC196193.1	Yano and Urabe [14]	54%	80.21%	1
<i>Pholeter gastrophilus</i>	KT883857	Fraija-Fernández <i>et al.</i> [4]	65.98%	79.88%	3
<i>Larval bucephalid spp.</i>	AY504855, AY504859	Hutson <i>et al.</i> [7]	92.67%	74.94%	3
<i>Dicrocoeliidae spp.</i>	MG845911	Waki <i>et al.</i> [12]	88%	76.07%	2
<i>Metagonimus sp.</i>	LC422949	Nakao (Unpublished)	95%	79.07%	1
ITS region of rDNA					
<i>C. lingua</i>	MW544136, MW544128, MW544135, MW544118, MW544112, MW544139,	Duflot <i>et al.</i> [3]	100%	99.8%	76
	MW361240	Gorbushin and Tolstenkov [6]	98%	99.81%	1
<i>Bucephalus margaritae</i>	KT273395	Nolan <i>et al.</i> [10]	99%	92.80%	1
<i>Bucephalus polymorphus</i>	AY289238	Stunženias <i>et al.</i> [11]	99%	88.46%	14
<i>Prosorhynchoides megacirrus</i>	KT273391	Nolan <i>et al.</i> [10]	100%	93.99%	1
<i>Timoniella spp.</i>	MF491832	Kvach <i>et al.</i> [8]	56%	99.87%	1
<i>Metorchis orientalis</i>	MT231323	Wang <i>et al.</i> [13]	95%	82.24%	1

Supplementary data 3: Haplotype network groups of *C. lingua* for *cox1* and ITS and their number of sequences.

Name of the haplotype group	Number of sequences in the group	Name of the haplotype group	Number of sequences in the group
COX_01	3	COX_45	1
COX_02	1	COX_46	1
COX_03	718	COX_47	1
COX_04	3	COX_48	1
COX_05	1	COX_49	3
COX_06	2	COX_50	1
COX_07	1	COX_51	1
COX_08	28	COX_52	1
COX_09	62	COX_53	3
COX_10	24	COX_54	1
COX_11	36	COX_55	1
COX_12	1	COX_56	2
COX_13	1	COX_57	1
COX_14	1	COX_58	1
COX_15	2	COX_59	1
COX_16	9	COX_60	1
COX_17	1	COX_61	1
COX_18	6	COX_62	1
COX_19	1	COX_63	1
COX_20	8	COX_64	1
COX_21	4	COX_65	1
COX_22	2	COX_66	1
COX_23	1	COX_67	1
COX_24	4	COX_68	1
COX_25	2	COX_69	1
COX_26	2	COX_70	1
COX_27	3	COX_71	1
COX_28	1	COX_72	1
COX_29	4	COX_73	1
COX_30	1	COX_74	1
COX_31	1	COX_75	1
COX_32	1	COX_76	1
COX_33	2	COX_77	1
COX_34	1	COX_78	1
COX_35	1	COX_79	1
COX_36	2	COX_80	1
COX_37	1	COX_81	1
COX_38	1	COX_82	1
COX_39	1	COX_83	1
COX_40	1	COX_84	1
COX_41	1	COX_85	1
COX_42	1	COX_86	1
COX_43	1	COX_87	1
COX_44	2		

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