

Supplementary materials

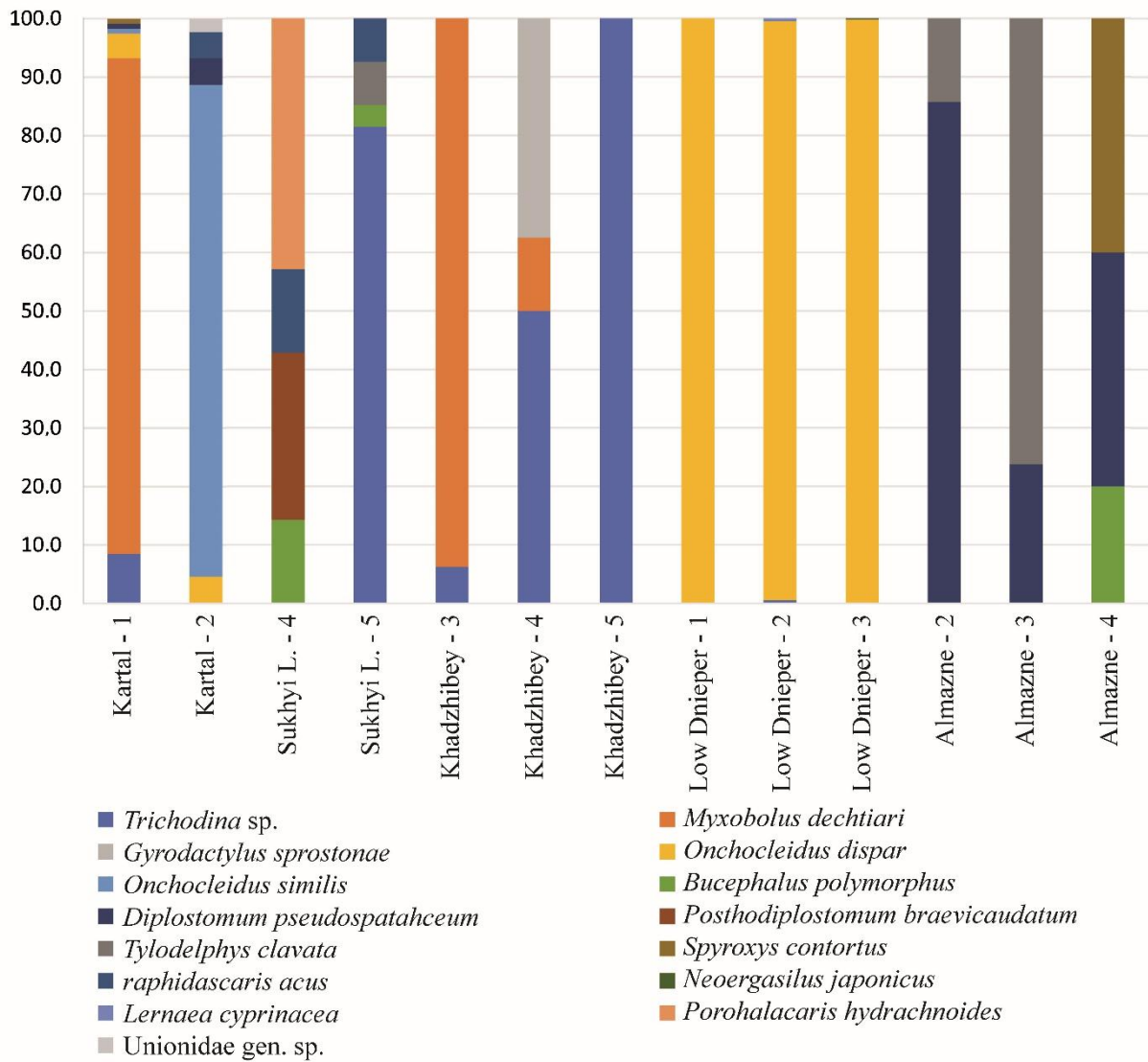


Fig. 1S. The percentage parasites number of depending on age by taxon

Table S1. Standard length (SL, mm) and weight (W, g) of studied fish of different age groups and sex. n – fish number.

Parameters	Sex	Age	n	SL, mm		Weight, g	
				m±sd	min-max	m±sd	min-max
Lake Kartal	♀	1+	7	57.1±4.3	50.0-64.0	5.8±1.5	3.8-8.8
		2+	6	58.8±5.4	51.0-66.0	6.9±2.1	3.7-10.1
		total	13	57.9±4.7	50.0-66.0	6.3±1.8	3.7-10.1
	♂	1+	2	53.5±12.0	45.0-62.0	5.1±2.6	3.3-7.0
		2+	4	62.0±5.9	56.0-68.0	7.4±1.4	6.1-9.2
		total	6	59.2±8.3	45.0-68.0	6.6±2.0	3.3-9.2
Sukhyi Lyman	♀♂	total	19	58.3±5.8	45.0-68.0	6.4±1.8	3.3-10.1
	♀	4	3	125.7±5.1	120.0-130.0	67.4±10.7	56.6-77.9
		5	6	134.5±11.9	112.0-143.0	89.7±19.1	55.3-109.6
		total	9	131.5±10.7	112.0-143.0	82.3±19.5	55.3-109.6
	♂	5	2	137.5±0.7	137.0-138.0	104.1±21.2	89.1-119.1
		total	2	137.5±0.7	137.0-138.0	104.1±21.2	89.1-119.1
total		11	132.6±9.9	112.0-143.0	86.2±20.7	55.3-119.1	
Khadzhibey Lyman	♀♂	3	2	89.5±13.4	80.0-99.0	25.8±11.2	17.9-33.7
		4	5	107.6±5.2	103.0-115.0	44.8±6.9	39.3-53.0
		5	3	116.0±2.6	113.0-118.0	56.7±7.0	48.7-62.0
		total	10	106.5±11.3	80.0-118.0	44.6±13.2	17.9-62.0
	♂	3	2	78.5±14.8	68.0-89.0	16.1±9.3	9.5-22.7
		total	10	107.0±16.7	68.0-122.0	46.9±18.1	9.5-65.2
Low Dnieper	♀♂	total	20	106.7±13.9	68.0-122.0	45.8±15.4	9.5-65.2
	♀	2	1	52.0	-	3.6	-
		3	4	54.7±1.5	53.0-56.0	4.3±0.4	3.8-4.7
		total	5	54.0±1.8	52.0-56.0	4.1±0.5	3.6-4.7
	♂	1	1	49.0	-	3.4	-
		2	5	52.2±2.2	50.0-55.0	4.0±0.5	3.3-4.3
total		16	55.1±3.8	49.0-62.0	4.7±1.2	3.3-7.2	

Lake Almazne	♀♂	total	21	54.9±3.5	49.0-62.0	4.6±1.1	3.3-7.2
	♀	2	1	58.0	-	5.0	-
		3	13	67.9±5.1	58.0-78.8	10.9±2.6	6.3-17.3
		4	1	82.0	-	18.2	-
		total	15	68.2±6.6	58.0-82.0	11.0±3.5	5.0-18.2
	♂	3	5	68.6±4.6	63.7-73.8	11.2±1.9	9.0-13.2
		4	1	91.0	-	24.9	-
		total	6	72.3±10.0	63.7-91.0	13.5±5.8	9.0-24.9
	♀♂	total	21	69.4±7.7	58.0-91.0	11.7±4.3	5.0-24.8

Table S2. Table of post-hoc pairwise comparisons of infracommunity species richness and abundance of parasites between five localities.

a) species richness			Estimate	SE	z	P
Lower Dnieper	vs	Lake Almazne	0.08468	0.35217	0.24	0.99898
Lake Kartal	vs	Lake Almazne	-0.27642	0.36453	-0.758	0.92507
Khadzhibey Lyman	vs	Lake Almazne	0.46279	0.453	1.022	0.80815
Sukhyi Lyman	vs	Lake Almazne	2.21382	0.66736	3.317	0.00632
Lake Kartal	vs	Lower Dnieper	-0.3611	0.2744	-1.316	0.62521
Khadzhibey Lyman	vs	Lower Dnieper	0.37811	0.57508	0.657	0.95413
Sukhyi Lyman	vs	Lower Dnieper	2.12915	0.8361	2.547	0.06434
Khadzhibey Lyman	vs	Lake Kartal	0.73921	0.56917	1.299	0.6367
Sukhyi Lyman	vs	Lake Kartal	2.49024	0.82109	3.033	0.01607
Sukhyi Lyman	vs	Khadzhibey Lyman	1.75103	0.47984	3.649	0.00199

b) abundance			Estimate	SE	z	P
Lower Dnieper	vs	Lake Almazne	3.2345	0.398	8.126	<0.0001
Lake Kartal	vs	Lake Almazne	0.5548	0.4279	1.296	0.68142
Khadzhibey Lyman	vs	Lake Almazne	-2.3491	0.7027	-3.343	0.00681
Sukhyi Lyman	vs	Lake Almazne	-0.365	0.5461	-0.668	0.96101
Lake Kartal	vs	Lower Dnieper	-2.6797	0.3925	-6.828	<0.0001
Khadzhibey Lyman	vs	Lower Dnieper	-5.5836	0.6816	-8.192	<0.0001
Sukhyi Lyman	vs	Lower Dnieper	-3.5995	0.5188	-6.938	<0.0001
Khadzhibey Lyman	vs	Lake Kartal	-2.9039	0.6995	-4.151	<0.0001
Sukhyi Lyman	vs	Lake Kartal	-0.9198	0.5421	-1.697	0.42163
Sukhyi Lyman	vs	Khadzhibey Lyman	1.9841	0.7775	2.552	0.0744