Table S1. List of the haemosporidian parasites detected by *cyt b* molecular analysis in the blood samples of the birds from urbanized and natural habitats (us - unusable sequences, dp - double peaks). Numbers in parentheses refer to the number of positive birds of a given lineage (evaluation included only species exceeding 10 individuals). Birds with long-distance migration are marked with the asterisk symbol (*).

Haemosporidian species	Bird species	Infected/Studied (prevalence)	Haemosporidian Lineage in MALAVI	Haemosporidian Lineage in GenBank
	Urbanized habitat			
H. parabelopolskyi	*Sylvia atricapilla**	11/28 (39.29%)	SYAT02 (7)	JN164719
			SYAT10 (1)	AY831757
			SYAT01 (2)	AY831750
			SYAT07 (1)	AY831754
Haemoproteus sp.	*Sylvia communis**	1/1	CWT4	KJ488675
	Fringilla coelebs	4/6	CCF2 (3)	AF495551
			CCF1 (1)	AF495550
	Emberiza citrinella	1/1	EMCIR01	GU085190
	*Sylvia atricapilla**	3/28 (10.71%)	us (3)	
	Turdus merula	1/9	us	
Subtotal of *Haemoproteus*		21/45 (46.67%)		
P. relictum	*Parus major*	5/37 (13.51%)	SGS1 (8)	MK652232
	Poecile montanus	1/6		
	Cyanistes caeruleus	1/9		
	*Sylvia atricapilla**	1/28 (3.52%)		
P. vaughani	*Turdus merula*	6/9	SYAT05 (6)	DQ847271
P. matutinum	*Turdus merula*	1/9	LINN1 (3)	DQ847270
	Erithacus rubecula	1/10 (10%)		

	Emberiza schoeniculus	1/15 (6.67%)		
P. circumflexum	*Emberiza schoeniculus*	2/15 (13.33%)	SYBOR02 (2)	DQ368392
	Turdus philomelos	2/2	BT7 TURDUS1	MK062195 KM361492
	Prunella modularis	1/6	TURDUS1	KM361492
Subtotal of *Plasmodium*		22/122 (18.03%)		
Leucocytozoon sp.	*Parus major*	12/37 (32.43%)	PARUS19 (4) PARUS28 (1) PARUS4 (4) PARUS18 (1) STUR1/TURPEL01 (1) us (1)	HM234027 JX855047 AY393795 HM234026 DQ847246/ KT376971
	Cyanistes caeruleus	3/9	PARUS19 PARUS4 PARUS50	HM234027 AY393795 JX855065
	Turdus merula	1/9	STAL1	MK652258
	Turdus philomelos	1/2	dp	
	*Sylvia atricapilla**	1/28 (3.57%)	PARUS4	AY393795
	Prunella modularis	1/6	PRUMOD01	KJ488638
	Natural habitat			
H. parabelopolskyi	*Sylvia atricapilla**	13/32 (40.63%)	SYAT01 (9) SYAT02 (4)	JN164718 JN164719
H. attenuatus	*Erithacus rubecula*	10/42 (23.8%)	ROBIN1/LULU1	AY393807
	Carduelis carduelis	1/11 (9.09%)		

	Emberiza schoeniculus	1/2		
	*Sylvia atricapilla**	1/32 (3.13%)		
	T. philomelos	1/1		
H. concavocentralis	*Coccothraustes coccothraustes*	1/3	HAWF2	GQ396708
H. minutus	*Turdus merula*	1/4	TURDUS2	KM361485
H. pallidus	*Erithacus rubecula*	1/42 (2.38%)	SYAT03	JN164720
	Carduelis carduelis	1/11 (9.09%)		
H. noctue	*Erithacus rubecula*	1/42 (2.38%)	CIRCUM01	KC994896
H. tartakovskyi	*Coccothraustes coccothraustes*	1/3	HAWF1	DQ368348
Haemoproteus sp.	*Erithacus rubecula*	4/42 (9.52%)	us (4)	
	Carduelis carduelis	1/11 (9.09%)	us	
	Emberiza citrinella	1/4	CCF6	DQ368341
	*Scolopax rusticola**	1/1	us	
	*Sylvia atricapilla**	1/32 (3.13%)	us	
	*Sylvia curruca**	1/4	LWT1	AF495563
Subtotal of *Haemoproteus*		42/104 (40.38%)		
P. circumflexum	*Erithacus rubecula*	2/42 (4.76%)	TURDUS1	KM361492
	Emberiza citrinella	1/4		

P. relictum	*Emberiza cia*	1/2	SGS1	JX196866
	Erithacus rubecula	1/42 (2.38%)	dp	
	Passer montanus	1/2	SGS1	MK652232
	Fringilla coelebs	1/3	COLL1	AY831747
P. vaughani	*Turdus merula*	2/4	SYAT05 (2)	OP546094
P. matutinum	*Turdus merula*	1/4	LINN1	DQ847270
Plasmodium sp.	*Cyanistes caeruleus*	1/4	us	
Subtotal of *Plasmodium*		11/61 (18.03%)		
Leucocytozoon sp.	*Erithacus rubecula*	5/42 (11.9%)	BT2	AY393802
			BT5	AY393798
			SFC8	DQ847234
			SYCON06	KP688305
			PARUS19	HM234027
	Coccothraustes coccothraustes	3/3	us (3)	
	*Scolopax rusticola**	1/1	SCORUS01	LC230149
	Cyanistes caeruleus	1/4	PARUS4	AY393795

Table S2. Parasite intensity in chosen juveniles by qPCR and microscopy

Bird species	Microscopy		nPCR	
	Intensity of infection	Species	Intensity of infection (qPCR)	Sequence
Turdus merula	high	*Plasmodium vaughani*	high	SYAT05
Sylvia atricapilla	low	*Haemoproteus* sp.	low	STAL02
Sylvia atricapilla	low	*Haemoproteus* sp.	low	STAL02
Sylvia atricapilla	medium	*H. parabelopolskyi*	medium	STAL02
Erithacus rubecula	high	*P. matutinum*	high	LINN1
Sylvia atricapilla	medium	*H. parabelopolskyi*	medium	SYAT02
Sylvia atricapilla	low	*H. parabelopolskyi*	medium	dp
Sylvia atricapilla	low	*H. parabelopolskyi*	low	SYAT01