

Order	Animal sampled	Stage	Clinical datas	Method of sampling	Cryptococcal species isolated (actual name)	Cryptococcal species isolated (ancient name)	Primers used for sequencing
Accipitriforme	<i>Accipiter nisus</i>	A	Amoxicillin + clavulanate + meloxicam	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Aegypius monachus</i>	A	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus kuetzingii</i>	NL
	<i>Buteo buteo</i>	A	ND	Direct cloacal swab	<i>Filobasidium wieringae</i>	<i>Cryptococcus wieringae</i>	ITS
	<i>Buteo buteo</i>	A	Wounded by lead pellets	Direct cloacal swab	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Buteo buteo</i>	A	ND	Swab on cage dry droppings	<i>Filobasidium oeirensae</i>	<i>Cryptococcus oeirensis</i>	ITS
	<i>Buteo buteo</i>	A	ND	Swab on cage dry droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
	<i>Circaetus gallicus</i>	A	Wounded by lead pellets, amoxicillin + meloxicam	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Pernis apivorus</i>	A	Wounded by lead pellets	Direct cloacal swab	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
Anseriforme	<i>Cygnus olor</i>	J	Botulism, activated coal + rehydration	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
Apodiforme	<i>Apus apus</i>	A	ND	Swab on cage dry droppings	<i>Cutaneotrichosporon curvatus</i> + <i>Naganishia diffluens</i>	<i>Cryptococcus curvatus</i> + <i>C. diffluens</i>	ITS ITS

	<i>Apus apus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Apus apus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
Bucerotiforme	<i>Upupa epops</i>	<b>A</b>	ND	Direct cloacal swab	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
Charadriiforme	<i>Chroicocephalus ridibundus</i>	<b>J</b>	Coccidiosis	Swab on cage wet droppings	<i>Filobasidium floriforme</i>	<i>Cryptococcus albidus</i>	NL
	<i>Larus michaelis</i>	<b>A</b>	ND	Direct cloacal swab	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Larus michaelis</i>	<b>J</b>	ND	Direct cloacal swab	<i>Naganishia randhawai</i>	<i>Cryptococcus randhawai</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia globosa</i>	<i>Cryptococcus saitoi</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Cryptococcus ovalis</i>	<i>Cryptococcus ovalis</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Cutaneotrichosporon curvatus</i>	<i>Cryptococcus curvatus</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	Thiamine-Pyridoxine + Vincamine-papaverine + Rapidexon	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Larus michaelis</i>	<b>I</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS

	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Larus michaelis</i>	<b>A</b>	Avian pox	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Papiliotrema laurentii</i>	<i>Cryptococcus laurentii</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
	<i>Larus michaelis</i>	<b>A</b>	Amoxicillin + clavulanate	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
	<i>Scolopax rusicola</i>	<b>A</b>	ND	Direct cloacal swab	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
Ciconiforme	<i>Ciconia ciconia</i>	<b>A</b>	Electrocution	Direct cloacal swab	<i>Naganishia liquefasciens</i>	<i>Cryptococcus liquefasciens</i>	ITS
Columbiforme	<i>Columba livia</i>	<b>A</b>	Wounded by lead pellets	Direct cloacal swab	<i>Cryptococcus ovalis</i>	<i>Cryptococcus ovalis</i>	ITS
	<i>Columba livia</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Columba livia</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia albida</i>	<i>Cryptococcus kuetzingii</i>	NL
	<i>Columba livia</i>	<b>J</b>	ND	Swab on cage wet droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS

	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Papiliotrema laurentii</i>	<i>Cryptococcus laurentii</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Columba palumbus</i>	<b>J</b>	ND	Swab on cage wet droppings	<i>Naganishia adeliensis</i>	<i>Cryptococcus adeliensis</i>	ITS
	<i>Columba palumbus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Columba palumbus</i>	<b>J</b>	Possible Newcastle disease	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Direct cloacal swab	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Direct cloacal swab	<i>Solicoccozyma aerea</i> + <i>Vishniacozyma carnescens</i>	<i>Cryptococcus aerius</i> + <i>C. carnescens</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium floriforme</i>	<i>Cryptococcus albidus</i>	NL

	<i>Streptopelia decaocto</i>	<b>A</b>	Rapidexon+ meloxicam+etamsylate	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Cryptococcus sp +</i> <i>Filobasidium magnum</i>	<i>Cryptococcus sp</i> <i>+ C.magnus</i>	ITS and NL + ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	Possible Newcastle disease	Swab on cage wet droppings	<i>Filobasidium floriforme</i>	<i>Cryptococcus albidus</i>	NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>I</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>I</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS

	<i>Streptopelia decaocto</i>	<b>A</b>	Amoxicillin + clavulanate + meloxicam	Swab on cage wet droppings	<i>Filobasidium magnum</i> + <i>Naganishia albida</i>	<i>Cryptococcus magnus</i> + <i>C. albidus</i>	ITS NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia albida</i> + <i>Papiliotrema flavescens</i>	<i>Cryptococcus albidus</i> + <i>C. flavescens</i>	NL NL
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia globosa</i>	<i>Cryptococcus saitoi</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia globosa</i>	<i>Cryptococcus saitoi</i>	ITS
	<i>Streptopelia decaocto</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
Falconiforme	<i>Falco naumanni</i>	<b>A</b>	Meloxicam	Direct cloacal swab	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Falco naumanni</i>	<b>A</b>	Meloxicam	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Falco tinnunculus</i>	<b>I</b>	ND	Direct cloacal swab	<i>Filobasidium oeirensense</i>	<i>Cryptococcus oeirensis</i>	ITS
	<i>Falco tinnunculus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Falco tinnunculus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus kuetzingii</i>	NL

	<i>Falco tinnunculus</i>	<b>A</b>	Meloxicam	Swab on cage dry droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Falco tinnunculus</i>	<b>A</b>	Amoxicillin + clavulanate + meloxicam	Swab on cage dry droppings	<i>Naganishia diffluens</i> + <i>Cutaneotrichosporon curvatus</i>	<i>Cryptococcus diffluens</i> + <i>Cryptococcus curvatus</i>	ITS ITS
	<i>Falco tinnunculus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
	<i>Falco tinnunculus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
Galliforme	<i>Phasianus colchicus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
Otidiforme	<i>Tetrax tetrax</i>	<b>A</b>	Wounded by lead pellets	Swab on cage wet droppings	<i>Naganishia globosa</i>	<i>Cryptococcus saitoi</i>	ITS
Passeriforme	<i>Carduelis carduelis</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Holtermanniella festucosa</i>	<i>Cryptococcus festucosus</i>	ITS
	<i>Coloeus monedula</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Coloeus monedula</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i> + <i>Naganishia uzbekistanensis</i>	<i>Cryptococcus carnescens</i> + <i>C. uzbekistanensis</i>	ITS ITS
	<i>Fringilla coelebs</i>	<b>A</b>	Rapidexon	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Fringilla coelebs</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS

	<i>Passer domesticus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Passer domesticus</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Passer domesticus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia liquefasciens</i>	<i>Cryptococcus liquefasciens</i>	ITS
	<i>Phoenicurus ochruros</i>	<b>J</b>	ND	Direct cloacal swab	<i>Filobasidium chernovii</i>	<i>Cryptococcus chernovii</i>	ITS
	<i>Phoenicurus ochruros</i>	<b>A</b>	Meloxicam	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Pica pica</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus kuetzingii</i>	NL
	<i>Pica pica</i>	<b>J</b>	ND	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Spinus spinus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Sturnus vulgaris</i>	<b>A</b>	ND	Direct cloacal swab	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Sturnus vulgaris</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Sturnus vulgaris</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Sturnus vulgaris</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Papiliotrema flavescens</i>	<i>Cryptococcus flavescens</i>	ITS



	<i>Sturnus vulgaris</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Papiliotrema laurentii</i>	<i>Cryptococcus laurentii</i>	ITS
	<i>Sylvia atricapilla</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia globosa</i>	<i>Cryptococcus saitoi</i>	ITS
	<i>Sylvia melanocephala</i>	<b>A</b>	ND	Direct cloacal swab	<i>Papiliotrema flavescens</i> + <i>N. albida</i>	<i>Cryptococcus flavescens</i> + <i>C. albidus</i>	ITS NL
	<i>Sylvia melanocephala</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia albida</i>	<i>Cryptococcus albidus</i>	NL
	<i>Troglodytes troglodytes</i>	<b>I</b>	ND	Swab on cage wet droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
	<i>Turdus merula</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Papiliotrema terrestris</i>	<i>Cryptococcus terrestris</i>	ITS
	<i>Turdus philomelos</i>	<b>A</b>	ND	Direct cloacal swab	<i>Solicoccozyma aerea</i>	<i>Cryptococcus aerius</i>	ITS
	<i>Turdus philomelos</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS
	<i>Turdus philomelos</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Filobasidium magnum</i> + <i>Naganishia albida</i>	<i>Cryptococcus magnus</i> + <i>C. albidus</i>	ITS NL
	<i>Turdus philomelos</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Papiliotrema terrestris</i>	<i>Cryptococcus terrestris</i>	ITS

Pelecaniforme	<i>Ardea cinerea</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Vishniacozyma carnescens</i>	<i>Cryptococcus carnescens</i>	ITS
	<i>Ardea cinerea</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
	<i>Ardea cinerea</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Naganishia uzbekistanensis</i>	<i>Cryptococcus uzbekistanensis</i>	ITS
Phoenicoptiforme	<i>Phoenicopterus roseus</i>	<b>A</b>	ND	Swab on cage wet droppings	<i>Filobasidium chernovii</i>	<i>Cryptococcus chernovii</i>	ITS
Strigiforme	<i>Tyto alba</i>	<b>A</b>	ND	Direct cloacal swab	<i>Filobasidium floriforme</i>	<i>Cryptococcus albidus</i>	NL
	<i>Otus scop</i>	<b>A</b>	ND	Swab on cage dry droppings	<i>Naganishia diffluens</i>	<i>Cryptococcus diffluens</i>	ITS
Suliforme	<i>Phalacrocorax carbo</i>	<b>A</b>	Amoxicillin + clavulanate + meloxicam	Swab on cage wet droppings	<i>Filobasidium magnum</i>	<i>Cryptococcus magnus</i>	ITS

Supplementary Data S3: Detailed Distribution of rare *Cryptococcus* and former *Cryptococcus* species by bird of origin and method of sampling

A : indicates an Adult; ; J : indicates a Juvenile; I : indicates an Immature bird. ND indicates no specific clinical data. ITS indicates that sequences were obtained by ITS1-ITS4 sequencing. NL indicates that sequences were obtained by NL1-NL4 sequencing.