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**SUPPLEMENTARY MATERIAL**

**The increasing spread of the European barbel in the Italian large lowland rivers is threatening the native species**

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Tab. S1. Sequences selected from GenBank database for phylogenetic and minimum spanning network reconstruction. Species, GenBank accession number (Acc. Num.), haplotype deposited in GenBank, geographic area where the haplotype has been described (Geography), source are indicated.

Species	Acc. Num.	Haplotype	Geography	Source
<i>Barbus barbus</i>	KF923535	BAR1	Adda	Zaccara <i>et al.</i> , 2014
	KF923536	BAR2	Adda	Zaccara <i>et al.</i> , 2014
	KF923537	BAR3	Adda	Zaccara <i>et al.</i> , 2014
	KF923538	BAR4	Adda	Zaccara <i>et al.</i> , 2014
	AY331020	PK-461	Black Sea area	Kotlík <i>et al.</i> , 2004
	AY331017	PK-319	Black Sea area	Kotlík <i>et al.</i> , 2004
	AY331019	PK-460	Black Sea area	Kotlík <i>et al.</i> , 2004
	AY331021	PK-451	Black Sea area	Kotlík <i>et al.</i> , 2004
	KC465918	Bb01	Po basin	Meraner <i>et al.</i> , 2013
	KC465919	Bb02	Po basin	Meraner <i>et al.</i> , 2013
	KC465920	Bb03	Po basin	Meraner <i>et al.</i> , 2013
	KC465921	Bb04	Po basin	Meraner <i>et al.</i> , 2013
	KC465922	Bb05	Po basin	Meraner <i>et al.</i> , 2013
	KC465923	Bb06	Po basin	Meraner <i>et al.</i> , 2013
	KC465924	Bb07	Po basin	Meraner <i>et al.</i> , 2013
	KC465926	Bb09	Po basin	Meraner <i>et al.</i> , 2013
	KC465927	Bb10	Po basin	Meraner <i>et al.</i> , 2013
	KC818252	Bb17*	Bormida/Terdoppio	Buonerba <i>et al.</i> , 2015
	KC818253	Bb18*	Terdoppio	Buonerba <i>et al.</i> , 2015
	<i>Barbus plebejus</i>	KC465928	Bp01	Po/Adige/Brenta
KC465929		Bp02	Adige basin	Meraner <i>et al.</i> , 2013
KC465930		Bp03	Adige basin	Meraner <i>et al.</i> , 2013
KC465931		Bp04	Po/Adige	Meraner <i>et al.</i> , 2013
KC465932		Bp05	Adige basin	Meraner <i>et al.</i> , 2013
KC465933		Bp06	Adige basin	Meraner <i>et al.</i> , 2013
KC465934		Bp07	Adige basin	Meraner <i>et al.</i> , 2013
KC465935		Bp08	Po/Adige	Meraner <i>et al.</i> , 2013
KC465936		Bp09	Po/Adige	Meraner <i>et al.</i> , 2013
KC465937		Bp10	Po/Adige	Meraner <i>et al.</i> , 2013
KC465938		Bp11	Po basin	Meraner <i>et al.</i> , 2013

	KC465939	Bp12	Po basin	Meraner <i>et al.</i> , 2013
	KC818247	Bp12*	Po/Terdoppio	Buonerba <i>et al.</i> , 2015
	KC818248	Bp13*	Po/Terdoppio/Maira/Ceronda	Buonerba <i>et al.</i> , 2015
	KC465942	Bp15	Po basin	Meraner <i>et al.</i> , 2013
	KC465943	Bp16	Po basin	Meraner <i>et al.</i> , 2013
	KC465944	Bp17	Po basin	Meraner <i>et al.</i> , 2013
	KC465945	Bp18	Po basin	Meraner <i>et al.</i> , 2013
	KC465946	Bp19	Po basin	Meraner <i>et al.</i> , 2013
	KC465947	Bp20	Po basin	Meraner <i>et al.</i> , 2013
	KC465948	Bp21	Po basin	Meraner <i>et al.</i> , 2013
	KC465949	Bp22	Po basin	Meraner <i>et al.</i> , 2013
	KF923539	PLE1	Adda	Zaccara <i>et al.</i> , 2014
	KF923540	PLE2	Adda	Zaccara <i>et al.</i> , 2014
	KF923541	PLE3	Adda	Zaccara <i>et al.</i> , 2014
	KF923542	PLE4	Adda	Zaccara <i>et al.</i> , 2014
	AY004750	-	Roggia (Udine)	Machordom and Doadrio, 2001a
<i>Barbus tyberinus</i>	AF397300 <sup>±</sup>	Tyb		Bianco and Ketmaier, 2001
<i>Barbus caninus</i>	AF287425 <sup>±</sup>	Bcanin2		Machordom and Doadrio, 2001b
	AF112124 <sup>±</sup>	-		Tsigenopoulos and Berrebi, 2000
<i>Barbus meridionalis</i>	AF112130 <sup>±</sup>	-		Tsigenopoulos and Berrebi, 2000
	AF045977 <sup>±</sup>	-		Zardoya and Doadrio, 1998
<i>Barbus comizo</i>	AF334050 <sup>±</sup>	115AT		Doadrio <i>et al.</i> , 2002

\*Sequences from Buonerba *et al.*, 2015 have been excluded from phylogenetic reconstruction due to shorter dimension of the mtDNA *cyt b* sequence available (713 bp). These excluded sequences, in this study overlapped: haplotype Bb17 with Ba04; haplotype Bb18 with Ba05; haplotype Bp12 not retrieved in this study, it overlapped with haplotypes: Bp08, Bp09, Bp12 and PLE4.

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