

Table S1. Overview of marbled crayfish populations analyzed.

Location	Site name	Coordinates	Habitat	Collection depth (cm)	Ground sediment
Tamatave	Ampasimpotsy	S18°09.925' E49°21.925'	pond	50-120	mud
Antsirabe	Ranomaimbo	S19°52.226' E47°01.791'	lake	50-100	mud
Fianarantsoa	Andraganroa	S21°17.551' E47°22.292'	river	50-100	mud
Ihosal	Ihosal	S22°22.512' E46°06.016'	river	100-150	mud
Bezaha	Anjingilo	S23°30.674' E44°29.658'	rice field	10-20	mud

Table S2. Marbled crayfish-associated vegetation.

Site name	Family	Genus	Common name
Ampasimpotsy	Poaceae	<i>Paspalum conjugatum</i>	Herbaceous grasses
	Pontederiaceae	<i>Salvinia</i> sp.	Macrophyte
Ranomaimbo	Poaceae	<i>Paspalum conjugatum</i>	Herbaceous grasses
		<i>Oriza</i> spp.	Rice
		<i>Phragmites</i> sp.	Phragmites
	Pontederiaceae	<i>Eichhornia</i> sp.	Macrophyte
Andraganroa	Poaceae	<i>Paspalum conjugatum</i>	Herbaceous grasses
		<i>Oriza</i> spp.	Rice
	Cyperaceae	<i>Cyperus latifolius</i>	Herbaceous grasses
Ihosal	Poaceae	<i>Paspalum conjugatum</i>	Herbaceous grasses
		<i>Phragmites</i> sp.	Phragmites
Anjingilo	Poaceae	<i>Paspalum conjugatum</i>	Herbaceous grasses
		<i>Oriza</i> spp.	Rice

Table S3. Marbled crayfish-associated fauna.

Site name	Family	Genus	Common name
Ampasimpotsy	Cichlidae	<i>Oreochromis</i> sp.	tilapia (fish)
	Channidae	<i>Channa striata</i>	snakehead fish
	Poeciliidae	<i>Gambusia</i> sp.	mosquitofish
	Odonata		dragonfly
Ranomaimbo	Cichlidae	<i>Oreochromis</i> sp.	tilapia (fish)
	Coleoptera		beetle
Andragaroa	Potamonautidae	<i>Hydrotelphusa agilis</i>	crab
	Parastacidae	<i>Astacoides betsiloensis</i> (red type)	crayfish
		<i>Astacoides granulimanus</i>	crayfish
		<i>Xiphophorus hellerii</i>	small fish
	Unidentified		tadpole
Coleoptera, Hemiptera, Odonata		insects	
Ihosy	Cyprinidae	<i>Carassius auratus</i>	goldfish
	Cichlidae	<i>Oreochromis niloticus</i> .	tilapia (fish)
	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish
		<i>Xiphophorus hellerii</i>	small fish
	Thiaridae	<i>Melanoides</i> sp.	mollusc
	Ranidae	<i>Aglyptodactylus madagascariensis</i>	frog
	Unidentified		tadpole
	Atyidae	Unidentified	shrimp
	Potamonautidae	Unidentified	crab
Coleoptera, Hemiptera, Odonata		insects	
Anjingilo	Cichlidae	<i>Oreochromis</i> sp.	(tilapia) fish
	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish
	Unidentified		tadpole
	Coleoptera		beetle