

Supplementary Table S1. List of all taxa used in the analyses with their respective geographical origin, voucher ID and GenBank accession codes

Species	Source	Reference(s)	Voucher ID	GenBank cox1	GenBank H3	GenBank LSU
<i>Acanthogammarus victorii</i>	Russia	n	NA	AY926652	-	-
<i>Barnardiorum shadini</i>	Tajikistan	m	NA	JF965994	-	JF965826
<i>Barnardiorum</i> sp.	Tajikistan	m	NA	JF965995	-	JF965827
<i>Carinurella paradoxa</i>	Italy	c	NA738	KR905829	KR905901	-
<i>Comatogammarus ferghanensis</i>	Tajikistan	m	NA	JF965996	-	JF965828
<i>Crangonyx forbesi</i>	-	b	NA	KF430256	KF484714	-
<i>Crangonyx pseudogracilis</i>	Ontario, Canada	l	NA	EF570296	-	EF582940
<i>Dikerogammarus villosus</i>	Germany	l	NA	EF570297	-	EF582941
<i>Echinogammarus cari</i>	Croatia	m	NA	-	-	JF965821
<i>Eulimnogammarus viridulus</i>	Russia	n	NA	AY926665	-	-
<i>Fuegophoxus abjectus</i>	Antarctica	e	NA	-	-	EU693290
<i>Gammaracanthus lacustris</i>	Slovenia	m	NA	JF965997	-	JF965829
<i>Gammaracanthus loricatus</i>	Norway	m	NA	JF965998	-	JF965830
<i>Gammarus aequicauda</i>	Greece	m	NA	JF965832	-	JF965637
<i>Gammarus aequicauda</i>	Slovenia	m	NA	-	-	JF965638
<i>Gammarus bosniacus</i>	Bosnia and Herzegovina	m	NA	JF965872	-	JF965680
<i>Gammarus crinicaudatus</i>	Iran	m	NA	JF965874	-	JF965683
<i>Gammarus crinicornis</i>	Egypt	l	NA	-	-	EF582947
<i>Gammarus fossarum</i>	Slovenia	c,s	NA001	KR905769	-	EF617235
<i>Gammarus istrianus</i>	Italy	m	NA	JF965903	-	JF965715
<i>Gammarus kesslerianus</i>	Ukraine	m	NA	JF965909	-	JF965721
<i>Gammarus lacustris</i>	Slovenia	m	NA	JF965915	-	JF965728
<i>Gammarus locusta</i>	Ireland	m	NA	JF965921	-	JF965736
<i>Gammarus montanus</i>	China	l	NA	EF570327	-	EF582971
<i>Gammarus parvioculus</i>	China	l	NA	EF570342	-	EF582988

Supplementary Table S1 page 2 of 9

<i>Gammarus pecos</i>	USA	m	NA	JF965931	-	JF965752
<i>Gammarus pengi</i>	China	m	NA	JF965933	-	JF965755
<i>Gammarus pulex</i>	France	m	NA	JF965945	-	JF965769
<i>Gammarus roeselii</i>	France	m	NA	JF965953	-	JF965778
<i>Gammarus sinuolatus</i>	China	l	NA	EF570339	-	EF582985
<i>Gammarus solidus</i>	Macedonia	m	NA	JF965958	-	JF965783
<i>Gammarus</i> sp.	Romania	i	NA	KF290234	-	KF290049
<i>Gammarus tigrinus</i>	Netherlands	m	NA	JF965931	-	JF965752
<i>Haploginglymus geos</i> sp. nov.	Cazalla de la Sierra, Spain	This study	PN1374	-	KY441049	KY441086
<i>Haploginglymus geos</i> sp. nov.	Cazalla de la Sierra, Spain	This study	PN1375	-	KY441050	KY441093
<i>Haploginglymus morenoi</i>	Zaragoza, Spain	This study	PN0243	KY441020	KY441053	KY441079
<i>Haploginglymus morenoi</i>	Zaragoza, Spain	This study	PN0245	KY441021	KY441054	KY441080
<i>Haploginglymus morenoi</i>	Zaragoza, Spain	This study	PN0249	KY441022	KY441055	KY441085
<i>Haploginglymus</i> sp. 1	Zaragoza, Spain	This study	PN0205	KY441013	KY441052	KY441084
<i>Haploginglymus</i> sp. 2	Zaragoza, Spain	This study	PN0209	KY441023	KY441056	KY441089
<i>Haploginglymus</i> sp.	Cordoba, Spain	This study	PN1371	KY441019	KY441051	KY441092
<i>Haploginglymus</i> sp.	Portugal	This study	PN1372	KY441015	KY441048	-
<i>Haploginglymus</i> sp.	Portugal	This study	PN1373	KY441014	KY441044	-
<i>Haploginglymus</i> sp.	Priego de Córdoba, Spain	This study	PN1320	KY441018	KY441046	KY441091
<i>Haploginglymus</i> sp.	Villaluenga del Rosario, Spain	This study	PN1114	KY441016	KY441047	KY441090
<i>Haploginglymus</i> sp.	Zagrilla la Alta, Spain	This study	PN0238	KY441017	KY441045	-
<i>Jesogammarus hebeiensis</i>	Beijing, China	l	NA	EF570352	-	EF582998
<i>Niphargellus glennei</i>	England	o	NA	KC315646	-	KC315617
<i>Niphargobates orophobata</i>	Slovenia	c	NA546	-	KR905900	KR905879
<i>Niphargus aberrans</i>	Slovenia	s	NA025	-	NA	EF617260
<i>Niphargus aitulosi</i>	Greece	e,p	NA081	-	KP133142	EU693310
<i>Niphargus alisadri</i>	Iran	c	NB105	KF581079	KR905904	KF581049
<i>Niphargus aquilex</i>	Great Britain	d,s	NA029	-	KP300936	EF617264

Supplementary Table S1 page 3 of 9

<i>Niphargus arbiter</i>	Croatia	c,f,s	NA052/NA055	KR905787	JQ815482	EF617287
<i>Niphargus bajuvaricus</i>	Austria	q,f,s	NA024	KT027378	JQ815476	EF617259
<i>Niphargus balcanicus</i>	Bosnia and Herzegovina	c,r,s	NA070/NB421	KR905796	JQ815507	EF617280
<i>Niphargus bilecanus</i>	Bosnia and Herzegovina	c,r	NA182	KR905826	-	JQ815550
<i>Niphargus boskovici</i>	Bosnia and Herzegovina	c,r,s	NA036	KR905781	JQ815502	EF617271
<i>Niphargus brachytelson</i>	Slovenia	c,e,f	NA071	KR905797	JQ815489	EU693293
<i>Niphargus carniolicus</i>	Slovenia	c,r,s	NA017	KR905776	JQ815501	EF617252
<i>Niphargus caspary</i>	Tuebingen: Germany	a,e	NA073	-	KJ566712	EU693291
<i>Niphargus cf. stygius</i>	Romania	i	NA	KF290273	-	KF290101
<i>Niphargus cf. stygius</i>	Romania	a,c	NA152	KR905821	KJ566720	KJ566693
<i>Niphargus cvijici</i>	Bosnia and Herzegovina	c,r	NA147	KR905819	JQ815516	JQ815554
<i>Niphargus dalmatinus</i>	Croatia	c,f,s	NA060	KR905790	JQ815484	EF617296
<i>Niphargus daniali</i>	Iran	c	NB132	KF581080	KR905926	KF581033
<i>Niphargus decui</i>	Romania	i	NA	KF290237	-	KF290052
<i>Niphargus decui</i>	Romania	c	NA154	KR905822	KR905894	KF719272
<i>Niphargus dimorphopus</i>	Netherlands	e,f	NA125	-	JQ815496	EU693296
<i>Niphargus dimorphus</i>	Ukraine	c	NA146	KR905818	KR905893	KR905873
<i>Niphargus dobatii</i>	Slovenia	c,r,s	NA013	KR905774	JQ815499	EF617247
<i>Niphargus dobrogicus</i>	Romania	i	NA	KF290255	-	KF290079
<i>Niphargus dobrogicus</i>	Romania	c	NA140	KR905816	KR905891	KR905871
<i>Niphargus dolichopus</i>	Bosnia and Herzegovina	e,f,t	NA076	KT007331	JQ815490	EU693297
<i>Niphargus elegans</i>	Italy	c,f,s	NA061	KR905791	JQ815485	EF617297
<i>Niphargus factor</i>	Bosnia and Herzegovina	c,e,r	NA078	KR905798	JQ815508	EU693298
<i>Niphargus fongi</i>	Slovenia	f,s	NA018	-	JQ815472	EF617253
<i>Niphargus fontanus</i>	England	s,o	NA	KC315635	NA	EF617304
<i>Niphargus frassassianus</i>	Italy	c,j	NA	KF581080	-	GU973411
<i>Niphargus gallicus</i>	Romania	i	NA	KF290262	-	KF290089
<i>Niphargus grandii</i>	Italy	a,c,e	NA080	KR905799	KJ566715	EU693300

Supplementary Table S1 page 4 of 9

<i>Niphargus hadzii</i>	Slovenia	c,e	NA082	KR905800	KR905887	EU693301
<i>Niphargus hercegovinensis</i>	Bosnia and Herzegovina	c,r	NA151	KR905820	JQ815517	JQ815549
<i>Niphargus hrabei</i>	Croatia	a,c,e	NA083	KR905801	KJ566716	EU693302
<i>Niphargus hrabei</i>	Romania	i	NA	KF290261	-	KF290088
<i>Niphargus hvarensis</i>	Croatia	c,f,s	NA038	KR905782	JQ815479	EF617273
<i>Niphargus ictus</i>	Italy	j	NA	GU973012	-	GU973415
<i>Niphargus illidzensis</i>	Bosnia and Herzegovina	c,e,f	NA084	KR905802	JQ815491	EU693304
<i>Niphargus irlandicus</i>	Ireland	o	NA	KC315654	-	KC315618
<i>Niphargus karamani</i>	Slovenia	c,e	NA085	KR905803	KR905888	EU693305
<i>Niphargus karkabounasi</i>	Greece	c	NA217	-	KR905898	KR905877
<i>Niphargus kenki</i>	Slovenia	c	NA086	KR905804	NA	KR905869
<i>Niphargus khayyami</i>	Iran	k	NA744	-	-	JX535353
<i>Niphargus kochianus</i>	Great Britain	e,f	NA090	-	JQ815492	EU693308
<i>Niphargus kolombatovici</i>	Bosnia and Herzegovina	r,t	NA964/NA963	KT007386	JQ815522	JQ815553
<i>Niphargus krameri</i>	Croatia	g,r,s	NA040/NA578	KR858433	JQ815503	EF617275
<i>Niphargus kusceri</i>	Montenegro	c	NB422	KR905767	KR905929	KR905883
<i>Niphargus kwarizmi</i>	Iran	c	NB107	-	-	KF581056
<i>Niphargus labacensis</i>	Slovenia	c,f,s	NA022	KR905777	JQ815474	EF617257
<i>Niphargus admiraulti</i>	Italy	h	NA	GU973424	-	GU973462
<i>Niphargus lessiniensis</i>	Italy	c,f,s	NA064	KR905794	JQ815488	EF617300
<i>Niphargus liburnicus</i>	Italy	t	NB018	KT007418	-	KT007478
<i>Niphargus likanus</i>	Slovenia	c,f	NA523	KR905828	JQ815498	JQ815441
<i>Niphargus longicaudatu</i>	Italy	f,s	NA007	-	JQ815469	EF617241
<i>Niphargus longicaudatus</i>	Croatia	a,c,s	NA006	KR905772	KJ566705	EF617240
<i>Niphargus longidactylus</i>	Slovenia	f,s	NA021	-	JQ815473	EF617256
<i>Niphargus longiflagellum</i>	Slovenia	c,e,r	NA093/NB205	KR905805	JQ815520	EU693311
<i>Niphargus lourensis</i>	Greece	c,e	NA094	KR905806	NA	EU693312
<i>Niphargus lunaris</i>	Croatia	c,e	NA095	KR905807	KR905889	EU693313

Supplementary Table S1 page 5 of 9

<i>Niphargus miljeticus</i>	Croatia	c	NA500	-	KR905899	KR905878
<i>Niphargus montanarius</i>	Italy	j	NA	GU973003	-	GU973419
<i>Niphargus multipennatus</i>	Slovenia	a,c	NA169	KR905825	KJ566721	KJ566700
<i>Niphargus novomestanus</i>	Slovenia	e,g,r	NA096	KR858496	JQ815509	EU693314
<i>Niphargus orcinus</i>	Slovenia	c,e,r	NA099/NB161	KR905808	JQ815510	EU693315
<i>Niphargus pachytelson</i>	Slovenia	c,e,r	NA100/NB420	KR905809	JQ815511	EU693316
<i>Niphargus pasquinii</i>	Italy	c,f,s	NA010	KR905773	JQ815471	EF617244
<i>Niphargus pectinicauda</i>	Slovenia	c,f,s	NA023	KR905778	JQ815475	EF617258
<i>Niphargus plateaui</i>	Italy	h	NA	GU973427	-	GU973465
<i>Niphargus podgoricensis</i>	Montenegro	c	NA166	KR905824	KR905896	KR905875
<i>Niphargus podpecanus</i>	Slovenia	c,e,r	NA101	KR905810	JQ815512	EU693317
<i>Niphargus polymorphus</i>	Montenegro	c,r,s	NA047	KR905784	JQ815505	EF617282
<i>Niphargus pupetta</i>	Slovenia	a,e	NA102	-	KJ566717	EU693318
<i>Niphargus puteanus</i>	Germany	a,c,s	NA066	KR905795	KJ566709	EF617302
<i>Niphargus rejici</i>	Slovenia	c,f,s	NA048	KR905785	JQ815481	EF617283
<i>Niphargus rhenorodanensis</i>	France	a,c,e	NA104	KR905811	KJ566719	EU693319
<i>Niphargus salonitanus</i>	Croatia	c,f	NA053	KR905788	JQ815483	KR905868
<i>Niphargus sanctinaumi</i>	Macedonia	c,e,p	NA105	KR905812	KP133144	EU693320
<i>Niphargus schellenbergi</i>	Belgium	c,f,s	NA032	KR905780	JQ815478	EF617267
<i>Niphargus schellenbergi</i>	Italy	h	NA	GU973430	-	GU973470
<i>Niphargus scopicauda</i>	Slovenia	c,f,s	NA026	KR905779	JQ815477	EF617261
<i>Niphargus slovenicus</i>	Slovenia	c,e,f	NA106	KR905813	JQ815493	EU693322
<i>Niphargus</i> sp.	Croatia	c	NB471/NB210	KR905768	KR905903	KR905884
<i>Niphargus</i> sp.	Croatia	c	NB173/NB508	KR905766	KR905928	KR905882
<i>Niphargus</i> sp.	Croatia	c,s	NA050	KR905786	KR905885	EF617286
<i>Niphargus</i> sp.	Croatia	c	NB164/NB168	KR905765	KR905902	KR905881
<i>Niphargus</i> sp.	Iran	c	NB121	KF581060	KR905922	KF581034
<i>Niphargus</i> sp.	Iran	c	NB112	KF581061	KR905913	KF581034

Supplementary Table S1 page 6 of 9

<i>Niphargus</i> sp.	Iran	c	NB119	KF581051	KR905920	KF581057
<i>Niphargus</i> sp.	Iran	c	NB120	-	KR905921	KF581063
<i>Niphargus</i> sp.	Iran	c	NB118	KF581078	KR905919	KF581048
<i>Niphargus</i> sp.	Iran	c	NB122	KR905830	-	KF581037
<i>Niphargus</i> sp.	Iran	c	NB126	-	-	KF581041
<i>Niphargus</i> sp.	Iran	c	NB125	KR905831	KR905925	KF581040
<i>Niphargus</i> sp.	Iran	c	NB113	KF581062	KR905914	KF581050
<i>Niphargus</i> sp.	Iran	c	NB108	KF581065	KR905906	KF581055
<i>Niphargus</i> sp.	Iran	c	NB115	KF581066	KR905916	KF581058
<i>Niphargus</i> sp.	Iran	c	NB114	-	KR905915	KR905880
<i>Niphargus</i> sp.	Iran	c	NB106	KF581064	KR905905	KF581054
<i>Niphargus</i> sp.	Iran	c	NB117	KF581072	KR905917	KF581043
<i>Niphargus</i> sp.	Iran	c	NB131	KF581073	KR905918	KF581046
<i>Niphargus</i> sp.	Iran	c	NB109	KF581074	KR905907	KF581036
<i>Niphargus</i> sp.	Iran	c	NB128	KF581075	KR905908	KF581047
<i>Niphargus</i> sp.	Iran	c	NB127	KF581071	-	KF581042
<i>Niphargus</i> sp.	Iran	c	NB110	KF581067	KR905909	KF581039
<i>Niphargus</i> sp.	Iran	c	NB129	KF581068	KR905910	KF581052
<i>Niphargus</i> sp.	Iran	c	NB111	KF581069	KR905911	KF581038
<i>Niphargus</i> sp.	Iran	c	NB130	KF581070	KR905912	KF581053
<i>Niphargus</i> sp.	Iran	c	NB123	KF581076	KR905923	KF581044
<i>Niphargus</i> sp.	Iran	c	NB124	KF581077	KR905924	KF581045
<i>Niphargus</i> sp.	Lebanon	c	NB133	KF581081	KR905927	KF581059
<i>Niphargus</i> sp. 1	Guipuzcoa, Spain	This study	PN1259	KY441035	KY441068	KY441088
<i>Niphargus</i> sp. 1	Guipuzcoa, Spain	This study	PN1305	KY441036	KY441070	KY441094
<i>Niphargus</i> sp. 1	Guipuzcoa, Spain	This study	PN1306	KY441037	KY441069	-
<i>Niphargus</i> sp. 2	Navarra, Spain	This study	PN0250	KY441030	KY441062	KY441083
<i>Niphargus</i> sp. 2	Navarra, Spain	This study	PN1130	KY441033	KY441063	KY441099

<i>Niphargus</i> sp. 2	Navarra, Spain	This study	PN1223	KY441031	KY441064	KY441078
<i>Niphargus</i> sp. 2	Navarra, Spain	This study	PN1224	KY441032	KY441066	KY441087
<i>Niphargus</i> sp. 2	Navarra, Spain	This study	PN1225	KY441034	KY441065	-
<i>Niphargus</i> sp. 3	Alava, Spain	This study	PN0526	KY441029	KY441067	KY441082
<i>Niphargus</i> sp. 3	Vizcaya, Spain	This study	PN0521	KY441025	KY441061	KY441096
<i>Niphargus</i> sp. 3	Vizcaya, Spain	This study	PN0522	KY441026	KY441058	KY441081
<i>Niphargus</i> sp. 3	Vizcaya, Spain	This study	PN0523	KY441024	KY441057	KY441095
<i>Niphargus</i> sp. 3	Vizcaya, Spain	This study	PN0524	KY441027	KY441059	KY441097
<i>Niphargus</i> sp. 3	Vizcaya, Spain	This study	PN0525	KY441028	KY441060	KY441098
<i>Niphargus sphagnicolus</i>	Slovenia	g,s	NA035	KR858495	-	EF617270
<i>Niphargus spinulifemur</i>	Slovenia	e,f,g	NA107/NA650	KR858500	JQ815494	EU693323
<i>Niphargus spoeckeri</i>	Slovenia	c,e,r	NA108	KR905814	JQ815513	EU693324
<i>Niphargus stenopus</i>	Slovenia	r,s	NA049	-	JQ815506	EF617284
<i>Niphargus steueri</i>	Slovenia	r,t	NA950	KT007358	JQ815523	KT007494
<i>Niphargus stygius</i>	Slovenia	c	NA110/NA631	KR905815	KR905890	KR905870
<i>Niphargus subtypicus</i>	Slovenia	e,r,t	NA112	KT007433	JQ815514	EU693326
<i>Niphargus tatrensis</i>	Poland	s	NA028	-	-	EF617263
<i>Niphargus tauricus</i>	Ukraine	c	NA155	KR905823	KR905895	KR905874
<i>Niphargus timavi</i>	Italy	e,f,g	NA114	KR858497	JQ815495	EU693327
<i>Niphargus tridentinus</i>	Italy	c,f,s	NA063	KR905793	JQ815487	EF617299
<i>Niphargus trullipes</i>	Bosnia and Herzegovina	c,r,s	NA046	KR905783	JQ815504	EF617281
<i>Niphargus vadimi</i>	Ukraine	c	NA144	KR905817	KR905892	KR905872
<i>Niphargus vinodolensis</i>	Croatia	c,f,s	NA062	KR905792	JQ815486	EF617298
<i>Niphargus virei</i>	Netherlands	c,f,s	NA003	KR905771	JQ815467	EF617237
<i>Niphargus vjetrenicensis</i>	Bosnia and Herzegovina	e,g,r	NA116/NA187/NB610	KR858499	JQ815521	EU693329
<i>Niphargus wolfi</i>	Slovenia	c,r,s	NA015	KR905775	JQ815500	EF617250
<i>Niphargus zagorae</i>	Croatia	c	NA213/NB609	KR905827	KR905897	KR905876
<i>Niphargus zagrebensis</i>	Slovenia	c,s	NA059	KR905789	KR905886	EF617295

Supplementary Table S1 page 8 of 9

<i>Pallasea cancellus</i>	Russia	n	NA	AY926687	-	-
<i>Pontogammarus robustoides</i>	Russia	m	NA	JF965990	-	JF965822
<i>Pontoniphargus racovitzai</i>	Romania	i	NA	KF290221	-	KF290028
<i>Pontoniphargus ruffoi</i>	Romania	i	NA	KF290217	-	KF290024
<i>Pseudoniphargus branchiatus</i>	Malaga, Spain	This study	PN0049	KY441041	KY441076	-
<i>Pseudoniphargus daviui</i>	Cabrera, Spain	This study	PN0002	KY441038	KY441072	-
<i>Pseudoniphargus daviui</i>	Cabrera, Spain	This study	PN0003	KY441039	KY441073	-
<i>Pseudoniphargus daviui</i>	Cabrera, Spain	This study	PN0004	KY441040	KY441074	-
<i>Pseudoniphargus gorbeanus</i>	Alava, Spain	This study	PN0167	KY441043	KY441075	KY441101
<i>Pseudoniphargus portosancti</i>	Madeira, Portugal	This study	PN0131	-	KY441077	KY441102
<i>Pseudoniphargus sp.</i>	Cantabria, Spain	This study	PN1396	-	-	KY441100
<i>Pseudoniphargus sp.</i>	Gran, Canaria, Spain	This study	PN0031	KY441042	KY441071	-
<i>Rhipidogammarus rhipidiophorus</i>	France	m	NA	JF965992	-	JF965824
<i>Rhipidogammarus rhipidiophorus</i>	Italy	m	NA	JF965991	-	JF965823
<i>Rhipidogammarus. karamani</i>	Croatia	m	NA	JF965993	-	JF965825
<i>Stygobromus dentata</i>	-	b	NA	KF430252	KF484710	-
<i>Synurella ambulans</i>	Slovenia	c,s	NA002	KR905770	-	EF617236
<i>Synurella sp.</i>	Romania	i	NA	KF290224	-	KF290032
<i>Urothoe brevicornis</i>	Great Britain	e	NA	-	-	EU693331

References

- (a) Altermatt F, Alther R, Fiser C, Jokela J, Konec M, Kury D. (2014) Diversity and distribution of freshwater amphipod species in Switzerland (Crustacea: Amphipoda). *PLoS ONE* 9 (10) e110328.
- (b) Corrigan LJ, Horton T, Fotherby H, White TA, Hoelzel AR. (2014) Adaptive evolution of deep-sea amphipods from the superfamily Lysiassanoidea in the North Atlantic. *Evolutionary Biology* 41:154-165.
- (c) Esmaeili-Rineh S, Sari A, Delic T, Moskric A, Fiser C. (2015). Molecular phylogeny of the subterranean genus *Niphargus* (Crustacea: Amphipoda) in the Middle East: a comparison with European niphargids. *Zoological Journal of the Linnean Society* 175:812-826.

- (d) Fiser C, Lustrik R, Sarbu S, Flot JF, Trontelj P. (2015). Morphological evolution of coexisting amphipod species pairs from sulfidic caves suggests competitive interactions and character displacement, but no environmental filtering and convergence. *PLoS ONE* 10 (4) e0123535.
- (e) Fiser C, Sket B, Trontelj P. (2008). A phylogenetic perspective on 160 years of troubled taxonomy of *Niphargus* (Crustacea: Amphipoda). *Zoologica Scripta* 37: 665-680.
- (f) Fiser C, Zagmajster M, Zaksek V. (2013). Coevolution of life history traits and morphology in female subterranean amphipods. *Oikos* 122: 770-778.
- (g) Fiser Z, Altermatt F, Zaksek V, Knapic T, Fiser C. (2015). Morphologically cryptic amphipod species are “ecological clones” at regional but not at local scale: a case study of four *Niphargus* species. *PLoS ONE* 10 (7) e0134384.
- (h) Flot JF. (2010). Toward a molecular taxonomy of the amphipod genus *Niphargus* : examples of use of DNA sequences for species identification. *Bulletin de la Société des Sciences Naturelles de l'Ouest de la France* 32:62-68.
- (i) Flot JF, Bauermeister J, Brad T, Hillebrand-Voiculescu A. (2014). *Niphargus*–*Thiothrix* associations may be widespread in sulphidic groundwater ecosystems: evidence from southeastern Romania. *Molecular Ecology* 23:1405-1417.
- (j) Flot JF, Worheide G, Dattagupta S. (2010). Unsuspected diversity of *Niphargus* amphipods in the chemoautotrophic cave ecosystem of Frasassi, central Italy. *BMC Evolutionary Biology* 10:171.
- (k) Hekmatara M, Zaksek V, Heidari Baladehi M, Fiser CJ. (2013). Two new species of *Niphargus* (Crustacea: Amphipoda) from Iran. *Journal of Natural History* 47:1421-1449.
- (l) Hou Z, Fu J, Li S. (2007). A molecular phylogeny of the genus *Gammarus* (Crustacea: Amphipoda) based on mitochondrial and nuclear gene sequences. *Molecular Phylogenetics and Evolution* 45:596-611.
- (m) Hou Z, Sket B, Fiser C, Li S. (2011). Eocene habitat shift from saline to freshwater promoted Tethyan amphipod diversification. *Proceedings of the National Academy of Sciences* 108:14533-14538.
- (n) MacDonald KS III, Yampolsky L, Duffy JE. (2005). Molecular and morphological evolution of the amphipod radiation of Lake Baikal. *Molecular Phylogenetics and Evolution* 35:323-343.
- (o) McInerney CE, Maurice L, Robertson AL, Knight LR. (2014). The ancient Britons: groundwater fauna survived extreme climate change over tens of millions of years across NW Europe. *Molecular Ecology* 23:1153-1166.
- (p) Ntakis A, Anastasiadou C, Zaksek V, Fiser C. (2015). Phylogeny and biogeography of three new species of *Niphargus* (Crustacea: Amphipoda) from Greece. *Zoologischer Anzeiger-A Journal of Comparative Zoology* 255:32-46.
- (q) Svára V, Delic T, Rada T, Fiser C. (2015). Molecular phylogeny of *Niphargus boskovici* (Crustacea: Amphipoda) reveals a new species from epikarst. *Zootaxa* 3994:354-376.

(r) Trontelj P, Blejec A, Fiser C. (2012). Ecomorphological convergence of cave communities. *Evolution* 66:3852-3865.

(s) Trontelj P, Douady CJ, Fiser C, Gibert J, Goricki S. (2009). A molecular test for cryptic diversity in ground water: how large are the ranges of macro-stygobionts?. *Freshwater Biology* 54:27-744.

(t) Zaksek V, Fiser C, Delic T, Trontelj P. (2016). Unpublished.