

Table S1. List of specimens used in this study with the corresponding Accession Number

No	Species	Sampling locality	Date of collection	Collector(s)	Preservation	DNA 序列(序列号/* 代表有; - 代表无)
						COI / Cytb / 16S / 28S
1	<i>Nalepa yushuensis</i>	Shanglaxiu, Yushu, Qinghai, China	2012-VII-21	G. Ren <i>et al.</i>	Dried	ON827495/ON856244/ON818477/ON818505
2	<i>Nalepa yushuensis</i>	Jyêgu, Yushu, Qinghai, China	2019-VII-24	X. Bai <i>et al.</i>	Ethanol	ON827500/ON856231/ON818463/ON818490
3	<i>Nalepa yushuensis</i>	Chaiwei, Qamdo, Xizang, China	2018-VIII-23	X. Bai <i>et al.</i>	Ethanol	ON827506/ON856255/ON818483/ON818512
4	<i>Nalepa acuminata</i>	Jinsha, Baiyü, Sichuan, China	2016-VIII-6	X. Li <i>et al.</i>	Ethanol	-----/ON856246/ON818479/ON818508
5	<i>Nalepa acuminata</i>	Hepo, Baiyü, Sichuan, China	2016-VIII-6	X. Li <i>et al.</i>	Ethanol	-----/-----/ON856235/ON818496
6	<i>Nalepa polita</i>	Yagra, Garzê, Sichuan, China	2016-VIII-5	X. Li <i>et al.</i>	Ethanol	ON827511/-----/ON856236/ ON818498
7	<i>Nalepa polita</i>	Chowa, Dêgê, Sichuan, China	2011-VII-26	G. Ren <i>et al.</i>	Dried	-----/ON856254/ON818488/ON818517
8	<i>Nalepa quadrata</i>	G350 road, Luhuo, Sichuan, China	2021-VII-17	X. Li <i>et al.</i>	Ethanol	ON827505/-----/ON818468/ON818495
9	<i>Nalepa quadrata</i>	Simu, Luhuo, Sichuan, China	2016-VIII-3	X. Li <i>et al.</i>	Ethanol	ON827509/ON856252/ON818486/ON818515
10	<i>Nalepa quadrata</i>	Simu, Luhuo, Sichuan, China	2016-VIII-3	X. Li <i>et al.</i>	Ethanol	ON827510/ON856253/ON818487/ON818516
11	<i>Nalepa quadrata</i>	Lean, Xinlong, Sichuan, China	2016-VIII-14	X. Li <i>et al.</i>	Ethanol	ON827494/ ----- / ----- /ON818504
12	<i>Nalepa xinlongensis</i>	Mari, Xinlong, Sichuan, China	2016-VIII-14	X. Li <i>et al.</i>	Ethanol	ON827498/ON856249/ON818482/ON818511
13	<i>Nalepa ovalifolia</i>	Gongya, Dêgê, Sichuan, China	2016-VIII-6	X. Li <i>et al.</i>	Ethanol	-----/ON856247/ON818480/ON818509

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14	<i>Nalepa ovalifolia</i>	Xindu, Luhuo, Sichuan, China	2016-VIII-6	X. Li <i>et al.</i>	Ethanol	ON827489/ON856238/ON818471/ON818500
15	<i>Nalepa ovalifolia</i>	Gyamda, Jomda, Xizang, China	2016-VIII-8	X. Li <i>et al.</i>	Ethanol	ON827488/ON856237/ON818470/ON818499
16	<i>Nalepa cylindracea</i>	Ya' ngan, Baqen, Xizang, China	2018-VIII-21	X. Bai <i>et al.</i>	Ethanol	ON827502/ON856230/ON818465/ON818492
17	<i>Nalepa cylindracea</i>	Ya' ngan, Baqen, Xizang, China	2018-VIII-21	X. Bai <i>et al.</i>	Ethanol	ON827503/ON856232/ON818466/ON818493
18	<i>Nalepa cylindracea</i>	Gyidoi, Riwoqê, Xizang, China	2019-VII-27	X. Bai <i>et al.</i>	Ethanol	ON827501/-----/ON818464/ON818491
19	<i>Nalepa cylindracea</i>	Saiqu, Zadoi, Qinghai, China	2012-VII-22	G. Ren <i>et al.</i>	Dried	ON827496/ON856245/ON818478/ON818506
20	<i>Nalepa cylindracea</i>	Gesang, Zadoi, Qinghai, China	2019-VII-25	X. Bai <i>et al.</i>	Ethanol	ON827499/ON856151/-----/ON818489
21	<i>Nalepa cylindracea</i>	Oyala pass, Nangqên, Qinghai, China	2019-VII-27	X. Bai <i>et al.</i>	Ethanol	ON827502/ON856230/ON818465/ON818492
22	<i>Nalepa cylindracea</i>	Gyanbê, Gonjo, Xizang, China	2016-VIII-8	X. Li <i>et al.</i>	Ethanol	ON827492/ON856241/ON818474/-----
23	<i>Nalepa cylindracea</i>	Lhatog, Chamdo, Xizang, China	2016-VIII-9	X. Li <i>et al.</i>	Ethanol	ON827493/ON856242/ON818475/ON818503
24	<i>Nalepa cylindracea</i>	Toba, Chamdo, Xizang, China	2016-VIII-9	X. Li <i>et al.</i>	Ethanol	ON827497/ON856248/ON818481/ON818510
25	<i>Nalepa cylindracea</i>	Qu' nyido, Jomda, Xizang, China	2016-VIII-9	X. Li <i>et al.</i>	Ethanol	ON827491/ON856240/ON818473/ON818502
26	<i>Nalepa cylindracea</i>	Qu' nyido, Jomda, Xizang, China	2016-VIII-8	X. Li <i>et al.</i>	Ethanol	ON827490/ON856239/ON818468/ON818501
27	<i>Nalepa cylindracea</i>	G214 road, Mangkang, Xizang, China	2021-VII-13	X. Li <i>et al.</i>	Ethanol	ON827504/ON856233/ON818467/ON818494
28	<i>Nalepa cylindracea</i>	Zom La shan, Mangkang, Xizang, China	2016-VIII-12	X. Li <i>et al.</i>	Ethanol	ON827508/ON856251/ON818485/ON818514

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29	<i>Ablapsis compressipes</i>	Gamtog, Jomda, Xizang, China	7.VIII.2016	X. Li <i>et al.</i>	Ethanol	-----/OQ603110/-----/OQ600261
30	<i>Ablapsis compressipes</i>	Jangra, Dêgê, Sichuan, China	6.VIII.2016	X. Li <i>et al.</i>	Ethanol	OQ587587/OQ603111/-----/OQ600262
31	<i>Blaps brevis</i>	Bangoin, Xizang, China	17.VIII.2018	X. Bai <i>et al.</i>	Ethanol	OQ587577/OQ603099/OQ600379/OQ600272
32	<i>Blaps brevis</i>	Baila, Bangoin, Xizang, China	3.VIII.2019	X. Bai <i>et al.</i>	Ethanol	OQ587578/OQ603100/-----/OQ600273
33	<i>Blaps apicecostata</i>	Rongxar, Tingri, Xizang, China	27.VII.2014	G. Ren <i>et al.</i>	Ethanol	OQ587584/OQ603104/OQ600385/OQ600281
34	<i>Blaps apicecostata</i>	Xar Qu, Biru, Xizang, China	13.VIII.2015	X. Bai <i>et al.</i>	Ethanol	OQ587586/OQ603106/OQ600387/OQ600277
35	<i>Blaps apicecostata</i>	Doina, Yatung, Xizang, China	19.VIII.2015	X. Bai <i>et al.</i>	Ethanol	OQ587576/OQ603101/-----/-----
36	<i>Blaps holcus</i>	Doina, Nedong, Xizang, China	8.VIII.2014	G. Ren <i>et al.</i>	Ethanol	-----/OQ603105/OQ600386/OQ600282
37	<i>Blaps holcus</i>	Dagzê X50, Sanghu, Xizang, China	16.VIII.2018	X. Bai <i>et al.</i>	Ethanol	OQ587579/OQ603098/OQ600380/OQ600274
38	<i>Blaps rhynchoptera</i>	Ma'an, Xichang, Sichuan, China	2.VIII.2015	X. Bai <i>et al.</i>	Ethanol	OQ587585/OQ603107/OQ600388/OQ600280
39	<i>Blaps rhynchoptera</i>	Shuiwan, Mianning, Sichuan, China	1.VIII.2020	M. Ma	Ethanol	OQ587580/OQ603097/OQ600381/OQ600275
40	<i>Blaps rhynchoptera</i>	Zhao, M <i>et al.</i> (2019)	n/a	n/a	Ethanol	MK854717
41	<i>Blaps garzica</i>	Ronggai, Baiyü, Sichuan, China	5.VIII.2016	X. Li <i>et al.</i>	Ethanol	----- /OQ603109/OQ600389/OQ600284
42	<i>Blaps garzica</i>	Mari, Xinlong, Sichuan, China	14.VIII.2016	X. Li <i>et al.</i>	Ethanol	OQ587588/OQ603112/OQ600391/OQ600263

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43	<i>Blaps yini</i>	Tongmai, Nyingri , Xizang, China	17.VIII.2020	Z. Hu	Ethanol	OQ587581/-----/OQ600382/OQ600276
44	<i>Blaps yini</i>	Egong, Bome , Xizang, China	30.VII.2021	G. Ren <i>et al.</i>	Ethanol	OQ587582/OQ603102/OQ600383/OQ600278
45	<i>Blaps yini</i>	Medog, Xizang, China	11. VIII.2016	Zh.Chen	Ethanol	----- /OQ603108/OQ600390/OQ600283
46	<i>Blaps yini</i>	Paggai, Bome , Xizang, China	1.VIII.2021	G. Ren <i>et al.</i>	Ethanol	OQ587583/OQ603103/OQ600384/OQ600279
47	<i>Coelocnemodes hurzensis</i>	Lugu Lake, Yunnan, China	3.VI.2012	H. Huang	Dried	OQ587596/OQ603119/OQ600374/-----
48	<i>Coelocnemodes tibialis</i>	Cangshan, Dali , Yunnan, China	15.VI.2011	J. Xu	Dried	-----/OQ603122/OQ600377/-----
49	<i>Dila bomina</i>	Egong, Bome , Xizang, China	31.VII.2021	G. Ren <i>et al.</i>	Ethanol	OQ587601/OQ603126/OQ600394/-----
50	<i>Dila bomina</i>	Guxiang, Bome , Xizang, China	27.VII.2009	G. Ren <i>et al.</i>	Dried	OQ587595/OQ603120/OQ600373/OQ600270
51	<i>Dila laevicollis</i>	Dangara region, Tajikistan	21.VII.2013	J. Yao	Dried	-----/OQ603121/OQ600376/-----
52	<i>Dila ngaria</i> sp. n.	Xiangzi Township, Tsada , Xizang, China	24.VIII.2015	G. Ren <i>et al.</i>	Ethanol	OQ587597/-----/OQ600375/OQ600271
53	<i>Dila ngaria</i> sp. n. larva	Xiangzi Township, Tsada , Xizang, China	24.VIII.2015	G. Ren <i>et al.</i>	Ethanol	OQ587599/OQ603124/OQ600392/-----
54	<i>Dila ngaria</i> sp. n.	Tuolin Township, Tsada , Xizang, China	11.VIII.2018	X. Li <i>et al.</i>	Ethanol	OQ587600/OQ603125/OQ600393/OQ600285
55	<i>Prosodes zarudenyi</i>	Poma, Zhaosu, Xinjiang, China	25.VI.2009	Z. Pan <i>et al.</i>	Dried	OQ587592/OQ603116/OQ600370/OQ600266
56	<i>Prosodes zarudenyi</i>	Poma, Zhaosu, Xinjiang, China	25.VI.2009	Z. Pan <i>et al.</i>	Dried	OQ587593/OQ603117/OQ600371/OQ600267

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57	<i>Prosodes regeli</i>	Nilak, Xinjiang, China	1.VI.2006	Y. Ba <i>et al.</i>	Dried	OQ587590/OQ603114/-----/OQ600268
58	<i>Prosodes regeli</i>	Tekes, Xinjiang, China	30.V.2006	Y. Ba <i>et al.</i>	Dried	OQ587594/OQ603118/OQ600372/OQ600269
59	<i>Prosodes</i> sp.	Mori Kazak, Xinjiang, China	17.VI.2016	Y. Ba <i>et al.</i>	Dried	OQ587589/OQ603113/OQ600368/OQ600264
60	<i>Prosodes pekinensis</i>	Pailu Mountain, Haiyuan, Xinjiang, China	18.VII.2009	X.Wang <i>et al.</i>	Dried	OQ587591/OQ603115/OQ600369/OQ600265
61	<i>Gnaptor spinimanus</i>	Serbia Vrsac, Vrsacko brdo	24.VII.2015	C. Chen	Dried	OQ587598/OQ603123/OQ600378/-----
62	<i>Gnaptor spinimanus</i>	Soldati, L <i>et al.</i> (2017)	n/a	n/a	Ethanol	KX398842
63	<i>Oodescelis oblonga</i>	Kurdnin, Tokkuztara, Xinjiang, China	4.VIII.2007	C. Zhang	Dried	MG993076/MG993086/MH410298/MG993063
64	<i>Oodescelis affinis</i>	Daban, Tekes, Xinjiang, China	21.V.2009	D. Sun	Dried	MG993073/MG993083/MH410299/MG993060
65	<i>Oodescelis emmerichi</i>	Huang shian, Xixia , Henan, China	18.VIII.2008	G. Ren <i>et al.</i>	Dried	MG993074/MG993084/MH185104/MG993061
66	<i>Oodescelis emmerichi</i>	Niubei liang, Zhashui , Shaanxi, China	22.VII.2011	X. Zhu <i>et al.</i>	Dried	-----/MG993074/MH185103/-----