

蒲佳佳, 杨平俊, 戴洋, 陶可欣, 高磊, 杜予州, 曹俊, 俞晓平, 杨倩倩 (2023) 长江下游外来生物福寿螺的种类及其种群遗传结构. 生物多样性, 31, 22346. doi: <https://www.biodiversity-science.net/CN/10.17520/biods.20222346>.

**附录 3 本研究及已发表的中国大陆、香港以及日本、阿根廷、巴西福寿螺种群的 *COI* 单倍型分布及序列信息**

**Appendix 3 The *COI* haplotype distribution and sequence information of apple snails from this study and the published by China's mainland, Hong Kong, and Japan, Argentina, Brazil populations**

物种	单倍型	序列数量	本研究种群	已发表的中国大陆种群	香港种群	日本种群	阿根廷种群	巴西种群
Species	Haplotype	No. of sequences	Populations in this study	Published by China's mainland populations	Hong Kong, China populations	Japanese populations	Argentine populations	Brazilian populations
<i>Pomacea canaliculata</i>	Hap1	370	126 (MZ396667- 77, 679-703, 704-12, 714-33, 736-8, 740-3, 745-50, 752-3, 755-9, 778, 780-4, 787, ON054143-67, 168-9)	129 (KP310366- 435, KR020962- 78, 994-1013, KT852706-22, 58-762, 765, 767-8, 771, 773-4, 62)	99 (MT806196, 198-202, 204-5, 207-10, 214-7, 219, 221-3, 225, 233, 238-52, 255-63, 266-7, 268-74, 276-9, 281-6, 288-9, 291-5, 297, 300, 306, 311, 319, 321-2, 325, 328, 331, 333, 336, 338-44, 347-8, 350-1, 353-4, 356-7)	7 (AB433760-1, 66-9, 73)	9 (AB728585, FJ710315, EU528482, EF514961-6)	–
<i>P. canaliculata</i>	Hap2	207	15 (MZ396788-92, 795, 798, 800, 802-3, ON054097-101)	159 (KP310264- 89, 291-365, KR020942-61, 980, 983-93, KT852727-56)	32 (MT806213, 228-32, 234-7, 264-5, 296, 298-9, 302-5, 310, 314, 316-7, 324, 326-7, 329-30, 334, 337, 345-6)	1 (AB433771)	–	–
<i>P. canaliculata</i>	Hap3	33	21 (MZ396656-66, 794, 796-7, 799, 801, ON054102-6)	1 (KP310290)	6 (MT806307, 309, 313, 315, 320, 323)	5 (AB433763-4, AB433772, 774-5)	–	–
<i>P. canaliculata</i>	Hap4	42	28 (MZ396804-15, ON054107-8, 127-40)	10 (KP310436, 439-445, KR020979, 81, 1014, KT852723-4)	1 (MT806211)	3 (AB433759, 65, 70)	–	–
<i>P. canaliculata</i>	Hap5	24	22 (MZ396734-5, 39, 44, 51, 54, 60-1, 63-4, 66, 69-70, 72, 75-7, 79, 85-6, ON054141-2)	–	–	2 (AB433757-8)	–	–
<i>P. canaliculata</i>	Hap6	33	18 (ON054109-26)	14 (KP310437-8, KR020982, 1015-20)	–	1 (AB433762)	–	–
<i>P. canaliculata</i>	Hap7	3	1 (MZ396713)	–	–	–	2 (EU528520, AB728586)	–
<i>P. canaliculata</i>	Hap8	2	2 (MZ396678, ON054170)	–	–	–	–	–
<i>P. canaliculata</i>	Hap9	1	1 (MZ396793)	–	–	–	–	–
<i>P. maculata</i>	Hap10	92	36 (ON054061-96)	29 (KT852782-5, KR021027, 34-40, KP310480-96)	8 (MT806197, 203, 212, 218, 220, 224, 226-7)	18 (AB433779-81)	–	1 (EU528496)

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Species	Haplotype	No. of sequences	Populations in this study	Published by China's mainland populations	Hong Kong, China populations	Japanese populations	Argentine populations	Brazilian populations
<i>P. canaliculata</i>	Hap11	5	–	5 (KP310442-4, KT852725-6)	–	–	–	–
<i>P. canaliculata</i>	Hap12	1	–	1 (KT852757)	–	–	–	–
<i>P. canaliculata</i>	Hap13	1	–	–	1 (MT806280)	–	–	–
<i>P. canaliculata</i>	Hap14	1	–	–	–	–	1 (AB728574)	–
<i>P. canaliculata</i>	Hap15	2	–	–	–	–	2 (AB728575, 78)	–
<i>P. canaliculata</i>	Hap16	1	–	–	–	–	1 (AB728576)	–
<i>P. canaliculata</i>	Hap17	1	–	–	–	–	1 (AB728577)	–
<i>P. canaliculata</i>	Hap18	2	–	–	–	–	2 (AB728587, EU528489)	–
<i>P. canaliculata</i>	Hap19	1	–	–	–	–	1 (AB728588)	–
<i>P. canaliculata</i>	Hap20	1	–	–	–	–	1 (EU528508)	–
<i>P. canaliculata</i>	Hap21	1	–	–	–	–	1 (EU528509)	–
<i>P. canaliculata</i>	Hap22	2	–	–	–	–	2 (EU528510, FJ710314)	–
<i>P. canaliculata</i>	Hap23	1	–	–	–	–	1 (EU528513)	–
<i>P. canaliculata</i>	Hap24	1	–	–	–	–	1 (EU528515)	–
<i>P. canaliculata</i>	Hap25	1	–	–	–	–	1 (EU528516)	–
<i>P. canaliculata</i>	Hap26	1	–	–	–	–	1 (EU528522)	–
<i>P. canaliculata</i>	Hap27	1	–	–	–	–	1 (EU528523)	–
<i>P. canaliculata</i>	Hap28	1	–	–	–	–	1 (EU528524)	–
<i>P. canaliculata</i>	Hap29	1	–	–	–	–	1 (EU528525)	–
<i>P. canaliculata</i>	Hap30	1	–	–	–	–	1 (EU528528)	–
<i>P. canaliculata</i>	Hap31	1	–	–	–	–	1 (EU528529)	–
<i>P. maculata</i>	Hap32	1	–	1 (KT852786)	–	–	–	–
<i>P. maculata</i>	Hap33	2	–	–	2 (MT806206, 253)	–	–	–
<i>P. maculata</i>	Hap34	12	–	–	–	11 (AB433776-8)	1 (EU528495)	–

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Species	Haplotype	No. of sequences	Populations in this study	Published by China's mainland populations	Hong Kong, China populations	Japanese populations	Argentine populations	Brazilian populations
<i>P. maculata</i>	Hap35	3	–	–	–	–	3 (AB728579, 83, EU528514)	–
<i>P. maculata</i>	Hap36	1	–	–	–	–	1 (AB728580)	–
<i>P. maculata</i>	Hap37	3	–	–	–	–	3 (AB728582, 84, EU528527)	–
<i>P. maculata</i>	Hap38	1	–	–	–	–	1 (EU528481)	–
<i>P. maculata</i>	Hap39	1	–	–	–	–	1 (EU528521)	–
<i>P. maculata</i>	Hap40	1	–	–	–	–	1 (EU528526)	–
<i>P. maculata</i>	Hap41	1	–	–	–	–	1 (EU528530)	–
<i>P. maculata</i>	Hap42	1	–	–	–	–	1 (EU528531)	–
<i>P. maculata</i>	Hap43	1	–	–	–	–	–	1 (EU528533)
<i>P. maculata</i>	Hap44	1	–	–	–	–	–	1 (EU528538)
<i>P. maculata</i>	Hap45	1	–	–	–	–	–	1 (EU528539)
<i>P. maculata</i>	Hap46	1	–	–	–	–	–	1 (EU528540)
<i>P. maculata</i>	Hap47	1	–	–	–	–	–	1 (EU528544)
<i>P. maculata</i>	Hap48	4	–	–	–	–	–	4 (EU528549, MK992470-2)
<i>P. maculata</i>	Hap49	1	–	–	–	–	–	1 (EU528550)
<i>P. maculata</i>	Hap50	1	–	–	–	–	–	1 (EU528551)
<i>P. maculata</i>	Hap51	1	–	–	–	–	–	1 (EU528552)
<i>P. maculata</i>	Hap52	1	–	–	–	–	–	1 (EU528554)
<i>P. maculata</i>	Hap53	1	–	–	–	–	–	1 (EU528557)
<i>P. maculata</i>	Hap54	1	–	–	–	–	–	1 (EU528558)
<i>P. maculata</i>	Hap55	1	–	–	–	–	–	1 (EU528559)
<i>P. maculata</i>	Hap56	1	–	–	–	–	–	1 (EU528560)
<i>P. maculata</i>	Hap57	1	–	–	–	–	–	1 (EU528561)
<i>P. maculata</i>	Hap58	1	–	–	–	–	–	1 (EU528562)
<i>P. maculata</i>	Hap59	1	–	–	–	–	–	1 (EU528563)
<i>P. maculata</i>	Hap60	1	–	–	–	–	–	1 (EU528566)

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<i>P. maculata</i>	Hap61	1	–	–	–	–	–	1 (EU528567)
<i>P. maculata</i>	Hap62	1	–	–	–	–	–	1 (EU528568)
<i>P. maculata</i>	Hap63	1	–	–	–	–	–	1 (EU528569)
<i>P. maculata</i>	Hap64	1	–	–	–	–	–	1 (EU528570)
<i>P. maculata</i>	Hap65	1	–	–	–	–	–	1 (EU528571)
<i>P. maculata</i>	Hap66	1	–	–	–	–	–	1 (EU528572)
<i>P. maculata</i>	Hap67	1	–	–	–	–	–	1 (EU528575)
<i>P. maculata</i>	Hap68	1	–	–	–	–	–	1 (EU528576)
<i>P. occulta</i>	Hap69	77	–	66 (KP310446-50, 52-73, 74-9, KT852763-81, 87-9, KR021021-6, 28-33)	11 (MT806254, 275, 290, 301, 308, 312, 318, 335, 349, 352, 355)	–	–	–
<i>P. occulta</i>	Hap70	1	–	1 (KP310451)	–	–	–	–
<i>P. occulta</i>	Hap71	1	–	1 (KT852790)	–	–	–	–
<i>P. occulta</i>	Hap72	1	–	–	1 (MT806287)	–	–	–
<i>P. occulta</i>	Hap73	1	–	–	1 (MT806332)	–	–	–