**Supplementary Table S3.** Infection status of *Metagonimus* spp.metacercariae (MsMc) in fish from the water systems of Geum-gang in Korea

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| --- | --- | --- | --- |
| Locality (Year) and fish sp. | No. fish examined | No. (%) fish infected | No. MsMc detected |
| Range | Average |
| ⑩ Juja-cheon in Jinan-gun, Jeollabuk-do (2012) |
| *Zacco platypus* | 40 | 22 (55.0) | 1-25 | 6.0 |
| *Zacco temminckii* | 40 | 33 (82.5) | 1-16 | 3.9 |
| *Pungtungia herzi* | 25 | 4 (16.0) | 1-2 | 1.3 |
| *Hemibarbus longirostris* | 22 | 4 (18.2) | 1-2 | 1.3 |
| *Squalidus gracilis majimae* | 14 | 3 (21.4) | 1-8 | 3.7 |
| *Pseudogobio esocinus* | 10 | 1 (10.0) | - | 2.0 |
| *Microphysogobio koeensis* | 5 | 1 (20.0) | - | 1.0 |
| Subtotal | 156 | 68 (43.6) | 1-25 | 4.2 |
| ⑪ Chogang-cheon in Yeongdong-gun, Chungcheongbuk-do (2011) |
| *Pungtungia herzi* | 30 | 8 (26.7) | 1-5 | 1.8 |
| *Odontobutis platycephala* | 18 | 1 (5.6) | - | 3.0 |
| *Pseudogobio esocinus* | 12 | 12 (100) | 1-13 | 5.7 |
| *Hemibarbus longirostris* | 10 | 9 (90.0) | 1-7 | 3.7 |
| *Acheilognathus lanceolatus* | 9 | 2 (22.2) | - | 2.0 |
| *Zacco platypus* | 3 | 3 (100) | 1-292 | 101.7 |
| *Zacco temminckii* | 3 | 3 (100) | 10-97 | 46.3 |
| *Squalidus gracilis majimae* | 2 | 1 (50.0) | - | 1.0 |
| *Acanthorhodeus gracilis* | 2 | 2 (100) | 3-7 | 5.0 |
| Subtotal | 89 | 41 (46.1) | 1-292 | 14.1 |
| ⑫ Geum-gang in Muju-gun, Jeollabuk-do (2012) |
| *Pungtungia herzi* | 35 | 2 (5.7) | 1-2 | 1.5 |
| *Zacco temminckii* | 11 | 3 (27.3) | - | 1.0 |
| *Pseudogobio esocinus* | 10 | 8 (80.0) | 1-10 | 3.5 |
| *Hemibarbus longirostris* | 4 | 2 (50.0) | - | 1.0 |
| Subtotal | 60 | 15 (25.0) | 1-10 | 2.4 |
| ⑬ Geum-gang in Geumsan-gun, Chungcheongnam-do (2011, 2013, 2015) |
| *Pseudogobio esocinus* | 52 | 52 (100) | 1-360 | 64.6 |
| *Hemibarbus longirostris* | 50 | 48 (96.0) | 1-80 | 16.6 |
| *Zacco platypus* | 34 | 33 (97.1) | 7-350 | 73.3 |
| *Zacco temminckii* | 26 | 22 (84.6) | 1-72 | 9.2 |
| *Coreoleuciscus splendidus* | 20 | 9 (45.0) | 1-32 | 7.0 |
| *Pungtungia herzi* | 20 | 9 (45.0) | 1-2 | 1.3 |
| *Sarcocheilichthys nigripinnis* | 17 | 5 (29.4) | 1-4 | 1.8 |
| *Squalidus japonicus coreanus* | 9 | 2 (22.2) | 3-4 | 3.5 |
| *Acheilognathus majusculus* | 9 | 7 (77.8) | 4-23 | 8.1 |
| *Opsariichthys uncirostris* | 8 | 8 (100) | 4-315 | 87.6 |
| *Acheilognathus yamatsutae* | 7 | 3 (42.9) | 1-11 | 5.0 |
| *Sarcocheilichthys variegatus* | 4 | 2 (50.0) | 1-2 | 1.5 |
| *Pseudopungtungia nigra* | 3 | 3 (100) | 1-5 | 2.3 |
| *Acheilognathus koreensis* | 1 | 1 (100) | - | 26.0 |
| *Acanthorhodeus gracilis* | 1 | 1 (100) | - | 4.0 |
| Subtotal | 261 | 205 (78.5) | 1-360 | 37.5 |
| ⑭ Yugu-cheon in Gongju-si, Chungcheongnam-do (2013, 2015) |
| *Acheilognathus lanceolatus* | 72 | 1 (1.4) | - | 1.0 |
| *Zacco platypus* | 59 | 37 (62.7) | 1-6 | 2.9 |
| *Hemibarbus longirostris* | 32 | 9 (28.1) | 1-14 | 3.3 |
| *Pungtungia herzi* | 22 | 1 (4.6) | - | 1.0 |
| *Acheilognathus yamatsutae* | 20 | 1 (5.0) | - | 1.0 |
| *Opsariichthys uncirostris* | 18 | 1 (5.6) | - | 1.0 |
| *Carassius auratus* | 17 | 1 (5.9) | - | 9.0 |
| *Acheilognathus rhombeus* | 15 | 1 (6.7) | - | 1.0 |
| *Sarcocheilichthys variegatus* | 5 | 4 (80.0) | 1-6 | 2.5 |
| Subtotal | 260 | 56 (21.5) | 1-14 | 2.9 |
| ⑮ Ji-cheon in Cheongyang-gun, Chungcheongnam-do (2013) |
| *Zacco temminckii* | 29 | 16 (55.2) | 1-25 | 6.9 |
| *Hemibarbus longirostris* | 13 | 10 (76.9) | 9-332 | 94.1 |
| *Pseudogobio esocinus* | 11 | 10 (90.9) | 3-150 | 36.3 |
| *Zacco platypus* | 4 | 4 (100) | 1-60 | 16.8 |
| *Pungtungia herzi* | 3 | 2 (66.7) | 2-4 | 3.0 |
| *Carassius auratus* | 3 | 2 (66.7) | 5-10 | 7.5 |
| *Pseudobagrus koreanus* | 1 | 1 (100) | - | 1.0 |
| *Sarcocheilichthys nigripinnis* | 1 | 1 (100) | - | 2.0 |
| Subtotal | 65 | 46 (69.2) | 1-332 | 32.7 |
| ⑯ Nonsan-cheon in Nonsan-si, Chungcheongnam-do (2013) |
| *Opsariichthys uncirostris* | 7 | 3 (42.9) | 2-13 | 6.3 |
| *Hemiculter eigenmanni* | 6 | 1 (16.7) | - | 1.0 |
| *Pseudorasbora parva* | 2 | 2 (100) | 1-4 | 2.5 |
| Subtotal | 15 | 6 (40.0) | 1-13 | 4.2 |
| Total | 835 | 432 (51.7) | 1-457 | 30.1 |

Uninfected fish species (No. of fish examined): ⑩ *O. platycephala* (22), *I. longicorpus* (8), *A. signifer* (7), *I. hugowolfeldi* (3), *L. obesus* (2), *S. asotus* (2), *S. gracilis majimae* (2), *P. koreanus* (2), *M. anguillicaudatus* (1), *P. nigra* (1), *R. steindachneri* (1), and *C. auratus* (1); ⑪*C. herzi* (25), *P. nigra* (10), *P. koreanus* (5), *A. signifer* (1), *C. auratus* (1) and *S. variegatus* (1); ⑫ *P. koreanus* (25), *C. herzi* (20), *P. brevicorpus* (10), *S. variegatus* (2), *A. lanceolatus* (1), *P. nigra* (1), *O. platycephala* (1), *C. auratus* (1), *P. fulvidraco* (1) and *S. scherzeri* (1); ⑬ *C. auratus* (26), *C. herzi* (26), *O. platycephala* (24), *L. mediadiposalis* (10), *S. scherzeri* (8), *P. fulvidraco* (3), *P. koreanus* (3), *H. labeo* (2), *A. springeri* (1) and *L. macrochirus* (1); ⑭ *P. esocinus* (28), *O. platycephala* (10), *A. springeri* (7), *H. labeo* (5) and *S. gracilis majimae* (1); ⑮ *S. scherzeri* (11), *A. korensis* (10), *O. platycephala* (1), *I. koreensis* (1) and *P. fulvidraco* (1); ⑯ *L. macrochirus* (10), *C. auratus* (10), *S. scherzeri* (3), *M. salmoides* (2), *P. herzi* (1), *H. leucisculus* (1), *S. variegatus* (1) and *P. esocinus* (1).