**Supplementary Table 1.** Detailed characteristics of the included articles regarding canine echinococcosis until 21 May 2021.

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|  | **First Author** | **Publication Year** | **Continent** | **Country** | **Sample type** | **Hosts** | **Scientific name** | **Total sample** | **Molecular prevalence** | **Genotype** | **Complex** | **Gene marker** | **Molecular test** |
| 1 | Breyer I | 2004 | Europe | Bulgaria | Adult worm | Jackal | *Canis aureus* | 2 | 2 | G1 |  Sensu stricto (s.s.) | ACT II/ND-1/Hbx 2/AgB-1 | PCR and sequencing |
| 2004 | Europe | Bulgaria | Adult worm | Wolf | *Canis lupus* | 1 | 1 | G1 |  Sensu stricto (s.s.) | ACT II/ND-1/Hbx 2/AgB-1 | PCR and sequencing |
| 2 | Zhang Y | 2006 | Asia | China | Adult worm | Dog | *Canis familiaris* | 30 | 17 | G1 |  Sensu stricto (s.s.) | 12S rRNA | PCR and sequencing |
| 3 | Utuk AE | 2008 | Europe | Turkey | Adult worm | Dog | *Canis familiaris* | 1 | 1 | G1 |  Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| 4 | Bružinskaitė R | 2009 | Europe | Lithuania | Fecal sample | Dog | *Canis familiaris* | 34 | 9 | G6/G7 |  | Cox1/Nad1/rrnS | Multiplex PCR |
| 5 | Lahmar S | 2009 | Africa | Tunisia | Fecal sample | Jackal | *Canis aureus* | 28 | 5 | G1 | Sensu stricto (s.s.) | 12S rRNA | PCR and sequencing |
| Fox | *Vulpes vulpes* | 15 | 2 |
| Dog | *Canis familiaris* | 60 | 6 |
| 6 | Soriano SV | 2010 | S.America | Argentina | Adult worm | Dog | *Canis familiaris* | 10 | 10 | 9(G1) 1(G6) | Sensu stricto (s.s.)/Canadensis | Cox1 | PCR and sequencing |
| 7 | Mario L | 2011 | S.America | Brazil | Adult worm | Dog | *Canis familiaris* | 12 | 12 | 10(G1) 1(G3) 1(G5) | Sensu stricto (s.s.)/Ortleppi | Cox1/12S rRNA | PCR and sequencing |
| 8 | Sherifi K | 2011 | Europe | Kosovo | Fecal sample | Dog | *Canis familiaris* | 305 | 4 | G1 | Sensu stricto (s.s.) | 12S rRNA | PCR and sequencing |
| 9 | Xhaxhiu D | 2011 | Europe | Albania | Fecal sample | Dog | *Canis familiaris* | 111 | 3 | G1 | Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| 10 | Parsa, F | 2012 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 71 | 20 | G1 G2 G3 | Sensu stricto (s.s.) | Cox1/Nad1 | PCR and sequencing |
| 11 | Guerra D | 2013 | Europe | Portugal | Fecal sample | Wolf | *Canis lupus* | 68 | 1 | G7 | Canadensis | Cox1/Nad1/rrnS | Multiplex PCR |
| 12 | Ito A | 2013 | Asia | Mongolia | Adult worm | Wolf | *Canis lupus* | 118 | 5 | 2G6/7 3 G10 | Canadensis | Cox1 | PCR and sequencing |
| 13 | Boufana B | 2014 | Africa | Tunisia | Adult worm | Jackal | *Canis aureus* | 2 | 2 | E. granulosus sensu stricto (s.s.) | Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| Dog | *Canis familiaris* | 20 | 20 |
| 14 | Rodriguez-Prado U | 2014 | N.America | Mexico | Fecal sample | Dog | *Canis familiaris* | 60 | \* | G7 | Canadensis | Cox1 | PCR and sequencing |
| 15 | Singh B | 2014 | Asia | India | Fecal sample | Dog | *Canis familiaris* | 237 | 2 | G1 | Sensu stricto (s.s.) | mitochondrial 12S rRNA | PCR and sequencing |
| 16 | Al-Jawabreh A | 2014 | Asia | Palestine | Fecal sample | Dog | *Canis familiaris* | 93 | 17 | E. granulosus sensu stricto (s.s.) | Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| 17 | Boufana B | 2015 | Africa | Kenya  | Adult worm | Dog | *Canis familiaris* | 2 | 10 | G1 | Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| Libya | 9 |
| Tunisia | 22 |
| Oceania | Australia | 16 | 2 |
| Asia | China | 4 | 2 |
| Kazakhstan | 4 |
| Europe | United Kingdom | 18 | 3 |
| S.America | Peru | 5 | 3 |
| Falkland Islands | 4 |
| 18 | Boufana B | 2015 | Europe | United Kingdom | Fecal sample | Dog | *Canis familiaris* | 20 | 20 | 3(G4)  17(E. granulosus sensu stricto (s.s.) | Equinus/Sensu stricto (s.s.) | Cox1 | PCR and sequencing |
| Foxhound(Dog) | *Canis lupus familiaris* | 6 | 6 | 5 (G4) 1(E. granulosus sensu stricto (s.s.) |
| 19 | Chaâbane-Banaoues R | 2015 | Africa | Tunisia | Fecal sample | Dog | *Canis familiaris* | 299 | 277 | G1 | Sensu stricto (s.s) | Nad1 | PCR-RFLP and sequencing |
| 20 | Gori F | 2015 | Europe | Italy | Fecal sample | Wolf | *Canis lupus* | 179 | 11 | G1 | Sensu stricto (s.s) | 12S rRNA | PCR and sequencing |
| 21 | Laurimaa L | 2015 | Europe | Estonia | Fecal sample | Dog | *Canis familiaris* | 190 | 2 | G1 | Sensu stricto (s.s) | Small-subunit ribosomal DNA (SSU-rDNA) | PCR and sequencing |
| 22 | Shariatzadeh sa | 2015 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 80 | 16 | G1/G3/G6 | Sensu stricto (s.s.)/Canadensis | Cox1 | PCR and sequencing |
| 23 | Chaâbane-Banaoues R | 2016 | Africa | Tunisia | Fecal sample | Dog | *Canis familiaris* | 152 | 138 | E. granulosus sensu stricto (s.s.) | Sensu stricto (s.s) | Nad1 | PCR-RFLP and sequencing |
| 24 | Gholami s | 2016 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 42 | 12 | G1/G3 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| Jackal | *Canis aureus* | 16 | 3 | G1 |
| 25 | Mauti S | 2016 | Africa | Mali | Fecal sample | Dog | *Canis familiaris* | 118 | 1 | G6 | Canadensis | Nad1 | PCR and sequencing |
| Fur sample | 223 | 1 |
| 26 | Scioscia NP | 2016 | S.America | Argentina | Adult worm | Pump Fox | *Lycalopex gymnocercus* | 95 | 1 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 27 | Arbabi M | 2017 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | \*\* | \*\* | G1 | Sensu stricto (s.s) | Cox1/ Nad1 | PCR and sequencing |
| 28 | Avila HG | 2017 | S.America | Argentina | Adult worm | Dog | *Canis familiaris* | 5 | 5 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 29 | Conceição MA | 2017 | Europe | Portugal | Adult worm | Dog | *Canis familiaris* | 105 | 1 | G1 | Sensu stricto (s.s) | Nad1 | PCR and sequencing |
| 30 | Dalimi A | 2017 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 75 | 20 | G2/G3 | Sensu stricto (s.s) | Nad1 | PCR and sequencing |
| Golden Jackal | *Canis aureus* | 73 | 2 | G1 |
| 31 | das Neves LB | 2017 | S.America | Brazil | Fecal sample | Dog | *Canis familiaris* | 65 | 17 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 32 | Ghabdian S | 2017 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 100 | 38 | G1 | Sensu stricto (s.s) | ITS1 | RFLP |
| 33 | Spotin A | 2017 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 2 | 2 | G2 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 34 | Cerda JR | 2018 | N.America | USA | Adult worm | Wolf | *Canis lupus* | 8 | 4 | G8/G10 | Canadensis | Nad1 | PCR and sequencing |
| 35 | Mulinge E | 2018 | Africa | Kenya | Fecal sample | Dog | *Canis familiaris* | 1621 | 71 | E. granulosus sensu stricto (s.s.) G6/G7/G5 | Sensu stricto (s.s)/Canadensis/Ortleppi | Nad1 | PCR and sequencing |
| 36 | Oguz B | 2018 | Europe | Turkey | Fecal sample | Dog | *Canis familiaris* | 100 | 4 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 37 | Omer RA | 2018 | Africa | Sudan | Adult worm | Dog | *Canis familiaris* | 84 | 40 | G1(1) / G6/7(39) | Sensu stricto (s.s)/Canadensis | Cox1/ Nad1 | PCR and sequencing |
| 38 | Schurer JM | 2018 | N.America | USA | Adult worm | wolf | *Canis lupus* | 23 | 8 | G8(5)/ G10(1) / G8/G10(2) | Canadensis | Cox1 | PCR and sequencing |
| coyote | *Canis latrans* | 100 | 14 | G8(6)/ G10(2) / G8/G10(6) |
| Fox | *Vulpes vulpes* | 0 | 0 | 0 |
| 39 | Di Francesco CE | 2019 | Europe | Italy | Fecal sample | Wolf | *Canis lupus* | 20 | 1 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 40 | Grech-Angelini S | 2019 | Europe | France | Fecal sample | Dog | *Canis familiaris* | 259 | 4 | G6/7 | Canadensis | Cox1/ Nad1/ Nad3/ Atp6 | multiplex real-time PCR and sequencing |
| 41 | Heidari Z | 2019 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 19 | 4 | G1 | Sensu stricto (s.s) | Cox1/ Nad1 | PCR and sequencing |
| Wolf | *Canis lupus* | 3 | 1 |
| Jackal | *Canis aureus* | 61 | 2 |
| Fox | *Vulpes vulpes* | 23 | 0 |
| 42 | Mirbadie S.R | 2019 | Asia | Iran | Fecal sample | Dog | *Canis familiaris* | 552 | 41\*\*\* | G1/G3/G7 | Sensu stricto (s.s)/Canadensis | Cox1/SSU-rDNA | PCR and sequencing |
| 43 | Keyhani A | 2020 | Asia | Iran | Adult worm | Dog | *Canis familiaris* | 84 | 9 | G1 | Sensu stricto (s.s) | Cox1 | PCR and sequencing |
| 44 | Kim HJ | 2020 | Asia | Uzbekistan | Adult worm | Dog | *Canis familiaris* | 1 | 1 | G3 | Sensu stricto (s.s) | Cox1/ Nad1 | PCR and sequencing |
| Jackal | *Canis aureus* | 1 | 1 | G1 |

(\*) The number of positive cases is not clear; however, it has been mentioned that 98% of cases were of *E. canadensis* complex (G7).

(\*\*) Only 200 adult worms were collected, without mentioning the sample size.

(\*\*\*) It was only mentioned that 41 dogs were infected with *E. granulosus* and *Taenia hydatigena*, without determination the exact number per worm.