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**Supplementary table 1.** Fish-borne parasites of public health relevance belonging to the genera *Anisakis*, *Pseudoterranova*, *Contracaecum, Gnathostoma,* *Capillaria*, and *Heterophyes* with indication of the fish host and of the locality where they have been reported.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Disease** | **Parasite** | **Fish host** | **Site - Country** | **Reference** |
| Anisakidosis | *Anisakis simplex, Pseudoterranova decipiens* | *Osmerus eperlanus* | Elbe estuary - Germany | Moller and Klatt, 1988 |
| Anisakidosis | *Contracaecum* sp*.* | *Anguilla anguilla* | Burano and Fogliano lagoons - Italy | Kennedy *et al.,* 1997 |
| Anisakidosis | *Anisakis simplex* | *Mallotus villosus, Clupea harengus* | St. Lawrence estuary - Canada | Hays *et al.,* 1998 |
| Anisakidosis | *Anisakis simplex* | *Sander lucioperca* | Vistula Lagoon - Poland | Rolbiecki and Rokicki, 2000 |
| Anisakidosis | *Anisakis simplex, Contracaecum* sp. | *Conger conger* | Muros and Arousa estuaries - Spain | Sanmartin *et al.,* 2000 |
| Anisakidosis | *Contracaecum* sp. | *Anguilla anguilla* | Figheri, Acquatina and Comacchio lagoons - Italy | Di Cave *et al.,* 2001 |
| Anisakidosis | *Anisakis simplex* | *Clupea harengus* | Vistula Lagoon - Poland | Rolbiecki and Rokicki, 2002; Podolska and Nadolna, 2014  |
| Anisakidosis | *Contracaecum* sp. | *Mugil cephalus,* *Aldrichetta forsteri* | Inshore and estuarine habitats - Southwestern Australia | Lymbery *et al.* 2002 |
| Anisakidosis | *Anisakis* sp., *Contracaecum* sp. | *Barbus* spp.*, Cyprinus carpio, Liza abu, Aspius vorax* | Atash, Sobhanie, Al-hai, Houfel Lagoons - Iran | Farahnak *et al.* 2002 |
| Anisakidosis | *Anisakis* sp. | *Dicentrarchus labrax* | Oslo fjord - Norway | Sterud, 2002 |
| Anisakidosis | *Contracaecum* sp. | *Liza ramada,* *Liza aurata* | Kishon Harbor and Ma’agan Michael - Israel | Dzikowski *et al.,* 2003 |
| Anisakidosis | *Contracaecum* sp. | *Dormitator latifrons* | Tres Palos Lagoon - Mexico | Garrido-Olvera *et al.,* 2004 |
| Anisakidosis | *Contracaecum* sp*.* | *Poecilia sphenops, Cichlasoma trimaculatum, Dormitator latifrons, Gobiomorus maculatus, Centropomus nigrescens, Gobionellus sagittula, Centropomus robalito, Diapterus peruvianus, Hexanematichthys guatemalensis, Lutjanus argentiventris, Mugil curema* | Tres Palos Lagoon - Mexico | Violante-González *et al.,* 2007 |
| Anisakidosis | *Contracaecum* sp*.* | *Cichlasoma trimaculatum, Centropomus nigrescens, Diapterus peruvianus, Lutjanus argentiventris, Poecilia sphenops, Dormitator latifrons, Mugil curema, Eleotris picta, Gobiomorus maculatus* | Coyuca Lagoon - Mexico | Violante-González and Aguirre-Macedo, 2007 |
| Anisakidosis | *Contracaecum* sp*.* | *Anguilla anguilla* | Ria de Aveiro estuary - Portugal | Hermida *et al.,* 2008 |
| Anisakidosis | *Contracaecum* sp*.* | *Brevoortia aurea, Paralichthys orbignyanis, Micropogonias furnieri* | Mar Chiquita Coastal lagoon - Argentina | Alarcos and Etchegoin, 2010 |
| Anisakidosis | *Anisakis* sp. | *Paralichthys orbignyanis, Micropogonias furnieri* | Mar Chiquita Coastal lagoon - Argentina | Alarcos and Etchegoin, 2010 |
| Anisakidosis | *Contracaecum* sp*.* | *Anguilla anguilla* | Santa Gilla lagoon - Italy | Culurgioni *et al.*, 2010 |
| Anisakidosis | *Contracaecum* sp*.* | *Fundulus heteroclitus* | Miramichi and Bouctouche rivers - Canada | Blanar *et al.,* 2011 |
| Anisakidosis | *Contracaecum osculatum* | *Blicca bjeorkna* | Anzali Lagoon - Iran | Pazooki *et al.,* 2011 |
| Anisakidosis | *Anisakis simplex, Contracaecum* sp*.*  | *Coilia nasus* | Estuary Yangtze River - China | Li *et al.,* 2011 |
| Anisakidosis | *Anisakis* sp. | *Polydactylus macrochir* | Estuarine habitats - Australia | Moore *et al.,* 2012 |
| Anisakidosis | *Anisakis* sp., *Contracaecum* sp*.* | *Oncorhynchus* *tshawytscha* | Columbia River estuary - USA | Claxton *et al.,* 2013 |
| Anisakidosis | *Contracaecum* sp. | *Anguilla anguilla* | Urbino lagoon - France | Filippi *et al.,* 2013 |
| Anisakidosis | *Anisakis* sp., *Contracaecum* sp. | *Mugil cephalus* | Saloum and Senegal estuaries - Senegal | Dione *et al.,* 2014 |
| Anisakidosis | *Contracaecum* sp*.* | *Leptatherina wallacei* | Blackwood River -Australia | Rashnavadi *et al.,* 2014 |
| Anisakidosis | *Anisakis simplex, Contracaecum* sp*.*  | *Osmerus eperlanus* | Vistula Lagoon - Poland | Dziekonska-Rynko *et al.,* 2018 |
| Anisakidosis | *Contracaecum multipapillatum* | *Mugil cephalus* | lagoon system in Gulf of California - Mexico | Álvarez-Sánchez *et al.,* 2020 |
| Anisakidosis | *Contracaecum* sp. | *Odontesthes argentinensis* | Mar Chiquita Coastal lagoon - Argentina | Levy *et al.,* 2021 |
| Anisakidosis | *Contracaecum* sp. | *Mugil curema* | Mayor and Marvilla lagoons - Perù | Minaya *et al.,* 2021 |
| Anisakidosis | *Contracaecum* sp., *Pseudoterranova* sp. | *Lutjanus griseus* | Mecoacán lagoon system - Mexico | Rodríguez-Santiago *et al.,* 2022 |
| Anisakidosis | *Contracaecum* sp. | *Mugil curema* | Chautengo Lagoon - Mexico | Morales Martínez *et al.,* 2022 |
| Gnathostomiasis | *Gnathostoma spinigerum,* *Gnathostoma binucleatum* | *Arius guatemalensis, Dormitator latifrons, Gobiomorus* sp.*, Oreochromis* sp.*, Cichlasoma beani, Eleotris picta* | Sinaloa brackish water - Mexico | Diaz Camacho *et al.,* 2002 |
| Gnathostomiasis | *Gnatostoma* *binucleatum* | *Cathoropos fuerthii* | Agua Brava lagoon - Mexico | Leon-Regagnon *et al.*, 2002 |
| Gnathostomiasis | *Gnathostoma* sp. | *Dormitator latifrons* | Tres Palos Lagoon - Mexico | Garrido-Olvera *et al.,* 2004 |
| Gnathostomiasis | *Gnathostoma* sp. | *Cathorops fuerthii, Oreochromis mossambicus, Oreochromis niloticus, Eleotris* sp., *Centropomus nigrescens, Centropomus undecimalis* | Custodio (estuary), Chila (lagoon), Tres Palos (lagoon), Atasta (lagoon) - Mexico | Leon-Regagnon *et al.,* 2005 |
| Gnathostomiasis | *Gnathostoma* sp. | *Eleotris picta, Gobiomorus maculatus* | Coyuca Lagoon - Mexico | Violante-González and Aguirre-Macedo, 2007 |
| Gnathostomiasis | *Gnathostoma* sp. | *Eleotris picta, Gobiomorus maculatus* | Tres Palos Lagoon - Mexico | Violante-González *et al.,* 2007 |
| Gnathostomiasis | *Gnathostoma binucleatum* | *Cathorops fuerthii, Pomadasys macracanthus, Mugil curema, Dormitator latifrons* | Agua Brava lagoon - Mexico | Alvarez Guerrero and Alba-Hurtado, 2007 |
| Gnathostomiasis | *Gnathostoma binucleatum* | *Dormitator latifrons, Eleotris picta* | Tecualilla, Sinaloa State - Mexico | Diaz Camacho *et al.,* 2008 |
| Gnathostomiasis | *Gnathostoma nipponicum* | *Salangichthys microdon* | Hachirogata Lagoon - Japan | Korekawa *et al.,* 2019 |
| Capillariasis | *Capillaria philippinensis* | *Hypseleotris bipartita, Eleotris melanosoma, Chonophorus melanocephalus, Ambassis miops, Sicyopterus* sp. | lagoons in Northern Luzon - Philippines | Cross and Basaca-Sevilla, 1991 |
| Capillariasis | *Capillaria* sp. | *Chelon labrosus, Liza aurata, Mugil cephalus* | Mistras lagoon - Italy | Merella and Garippa, 2001 |
| Heterophyiasis | *Heterophyes heterophyes* | *Liza ramada,* *Liza aurata* | Kishon Harbor and Ma’agan Michael -Israel | Dzikowski *et al.,* 2003 |
| Heterophyiasis | *Heterophyes nocens, Heterophyopsis continua* | *Lateolabrax japonicus, Mugil cephalus, Chelon haematocheilus, Acanthogobius flavimanus* | Jinju-man (Bay) - Korea | Kim e*t al.,* 2006 |
| Heterophyiasis | *Heterophyopsis continua* | *Epinephelus coioides Epinephelus bleekeri, Mugil cephalus* | Cua Be estuary in Nha Trang city - Vietnam | Vo *et al.,* 2008 |
|  Heterophyiasis | *Heterophyes heterophyes* | *Mugil cephalus, Mugil capito, Mugil auratus, Tilapia nilotica, Tilapia zilli* | brackish waters - Egypt | Elsheikha and Elshazly, 2008; Lobna *et al.,* 2010 |
| Heterophyiasis | *Heterophyes nocens, Heterophyopsis continua* | *Lateolabrax japonicus, Konosirus punctatus, Chelon haematocheilus, Acanthogobius flavimanus, Acanthopagrus schlegeli* | Muan-gun - Korea | Cho *et al.,* 2012 |
| Heterophyiasis | *Heterophyes heterophyes* |  *Gobius niger* | Santa Gilla lagoon - Italy | Culurgioni *et al.,* 2014 |
| Heterophyiasis | *Heterophyes* sp. | *Chelon labrosus, Liza aurata, Liza ramada, Liza saliens, Mugil cephalus* | Mistras Lagoon -Italy | Masala *et al.,* 2016 |

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