

Systematic Review Protocol for the “Pathogens in Foods”

Database:

Occurrence of parasites of public health importance in fishery products

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1. Main Objective of the Systematic Review

This protocol is mostly based on the protocol titled “Review Protocol for the “Pathogens in Foods” Database: Prevalence and Concentration of Main Biological Hazards in Food Matrices” that has been published on Zenodo as a deliverable from the GA GP/EFSA/BIOHAW/2022/01 (<https://zenodo.org/record/7741392>). The main objective of the systematic review is to identify and extract, under a categorised arrangement, information and data on the occurrence (i.e., prevalence and concentration) of parasites of public health importance (among which Anisakids) in fishery products¹. Data periodically obtained from peer-reviewed articles will feed the web application *Pathogens in Foods* (<https://pif.esa.ipb.pt/>) through a dedicated database insertion system (<https://pathogens-in-food-frontend.vercel.app/>).

The present systematic review protocol will be employed to retrieve published studies and data in the following periods:

Search of September 2023 (done in October 2023): Covering studies published between January 2010 and September 2023 on Anisakids and other parasites in fishery products from aquaculture and wild caught fish in all countries.

- The search will be done generally and further restricted to aquaculture (and synonyms), European countries, and period 2020-2023, by adding a specific search string to filter the retrieved records for prioritization. For the period 2010-2020, the records for data extraction will first come from primary research studies of interest that have already been identified in published meta-analyses for Anisakids in aquaculture and Anisakids in wild caught fish (worldwide) (Fiorenza et al., 2020, Mercken et al., 2020, Rahmati et al., 2020). For the period 2020-2023, the publications will come from the bibliographic search.
- For completeness, the PIF database will be further populated through the search of September 2023, for non-selected records in those meta-analyses, for the period 2010-2020.

Search of September 2024: Covering studies published between January 2000 and January 2010 and between September 2023 and September 2024 on Anisakids and other parasites in fishery products from aquaculture and wild caught fish in all countries.

Search of September 2025: Covering studies published between September 2024 and September 2025 on Anisakids and other parasites in fishery products from aquaculture and wild caught fish in all countries.

Search of January 2026: Covering studies published between September 2025 and January 2026 on Anisakids and other parasites in fishery products from aquaculture and wild caught fish in all countries.

¹ Fishery products it is understood all seawater or freshwater animals (except for live bivalve molluscs, live echinoderms, live tunicates and live marine gastropods, and all mammals, reptiles and frogs) whether wild or farmed and including all edible forms, parts and products of such animals.

2. Protocol for the Systematic Review

2.1 Review question

The review question is: “what is the occurrence (i.e., prevalence and/or concentration) of parasites of public health importance (among which Anisakids) in fishery products produced and/or commercialised worldwide?”. This descriptive question has a simple PO (*population* and *outcome*) structure with key elements that can be broken down, as follows:

Population: Fishery products produced and/or commercialised worldwide for human consumption.

Outcome: Occurrence of at least one of the following genus of parasites in fishery products, namely *Anisakis*, *Pseudoterranova*, *Phocanema*, *Contracaecum*, *Cryptocotyle*, *Opisthorchis*, *Methorchis*, *Pseudamphistomum*, *Dibothriocephalus*, *Diphyllbothrium*, *Bolbosoma*, *Corynosoma* spp., *Myxosporidia* spp. and *Kudoa* spp. expressed as either prevalence or concentration (intensity or abundance) measured in the population. A list of parasites of public health importance is presented in Annex 1.

Because both key elements can be clearly specified, the review question is *close*-framed, which is advantageous because it enables the setting of more clear eligibility criteria *a priori*, as opposed to open-framed questions.

2.2 Criteria for inclusion of individual studies

For a study to be included in the systematic review, it should comply with criteria related to study characteristics (i.e., at the levels of study design and setting, population, outcomes of interest, and method used), and criteria related to report characteristics (i.e., type of publication and language of the full text). The eligibility criteria are described in Table 1.

Data in graphical format

The inclusion of a primary research study whose results are presented in graphical format will be decided on a case-by-case basis. It will depend on how feasible and reliable the extraction of data from the charts is.

Examples of primary research studies excluded

Primary research studies not meeting the pre-set criteria will not be included in the systematic review. Examples of primary research studies that will be excluded are: (1) reports of pathogens' counts from likely food vehicles within the context of investigation of foodborne outbreaks; (2) studies providing occurrence data without pointing out the microbiological method used or at least citing an informative source in the list of

references; (3) studies that do not provide the amount or unit of analytical sample used in the detection essay either directly in the methodology description or in the references.

Table 1: Eligibility criteria for inclusion of individual studies in the systematic review

Type of criteria	Eligibility criteria
<i>Criteria related to study characteristics</i>	
Study design and setting	[1] Occurrence data must originate from observational studies that could be cross-sectional or longitudinal where food units have been sampled by a randomised design, either simple or stratified.
Population	[2] Fishery products and composite foods containing fishery products, as finished product or during production/processing, must be sampled from primary production, processing facilities, retail or restauration establishments. [3] Food chain stage where samples were taken must be specified.
Outcomes of interest	[4] The study must present results on prevalence and/or enumeration of <i>Anisakis</i> , <i>Pseudoterranova</i> , <i>Phocanema</i> , <i>Contracaecum</i> , <i>Cryptocotyle</i> , <i>Opisthorchis</i> , <i>Methorchis</i> , <i>Pseudamphistomum</i> , <i>Dibothriocephalus</i> , <i>Diphyllbothrium</i> , <i>Bolbosoma</i> , <i>Corynosoma</i> spp., <i>Myxosporidia</i> spp. or <i>Kudoa</i> spp. in fishery products or composite foods containing fishery products. [5] For prevalence, it should provide at least <i>sample size</i> and <i>number of positive samples</i> ; and for enumeration, it should provide at least the <i>sample size</i> , a <i>measure of concentration (or intensity/abundance)</i> .
Method	[6] The parasitological analytical method used must be indicated, or alternatively a reference provided; and the sample size must be higher than 3 units.
<i>Criteria related to report characteristics</i>	
Language of the full text	[7] English, Spanish, French, Portuguese
Publication type	[8] Primary research studies

2.3 Searching for individual studies

The bibliographic search will be conducted using a combination of general terms, biological hazards, foodstuffs and countries.

General terms (Title-Keywords-Abstract):

“microbial quality” OR “microbial safety” OR “microbiological quality” OR “microbiological safety” OR analyses OR analysis OR concentration OR contamination OR count* OR detection OR enumeration OR incidence OR investigation OR occurrence OR presence OR prevalence OR sampling OR survey* OR abundance OR intensity

Fish parasites (Title-Keywords-Abstract):

Anisakids: Anisakidae OR anisakid* OR Anisakis OR Pseudoterranova OR Phocanema OR Contracaecum OR Phocanema OR “A. simplex” OR “A. pegreffii” OR “A. berlandi” OR “A. typica” OR “A. ziphidarum” OR “A. physeteris” OR “A. brevispiculata” OR “A. paggiae” OR “A. nascettii” OR “P. krabbei” OR “P. decipiens” OR “P. bulbosa” OR “P. azarasi” OR “P. cattani” OR “C. osculatum” OR “C. radiatum” OR “C. mirounga” OR “C. ogmorhini” OR “C. margolisi” OR “Ph. decipiens” OR “Ph. azarasi” OR “Ph. cattani” OR “Ph. krabbei” OR “Ph. bulbosa”

Other fish parasites: Cryptocotyle OR “C. lingua” OR Opisthorchis OR “O. felineus” OR Methorchis OR Pseudamphistomum OR “P. truncatum” OR Dibothriocephalus OR Diphyllbothrium OR Bolbosoma OR Corynosoma OR Myxosporidia OR Kudoa

Foods (Title-Keywords-Abstract):

Seafood: seafood OR seafoods OR “sea food” OR “sea foods” OR crustacean* OR shellfish OR bivalve* OR mollusc* OR mollusk* OR fish* OR finfish* OR “fishery product*” OR “marine gasteropod*” OR cephalopod OR cephalopods OR crustacean OR crustaceans OR echinoderm OR echinoderms OR “sea urchin” OR “sea urchins” OR holoturid* OR tunicate OR tunicates OR urchin* OR crab* OR prawn* OR shrimp* OR lobster* OR “crayfish” OR crabfish OR crawfish OR langoustine OR scampi OR “clam” OR “clams” OR “carpet shell*” OR scallop* OR Pecten OR oyster* OR cockle OR cockles OR mussel OR mussels OR mytilus OR “Pen shell*” OR snail* OR abalone* OR Nassarius OR “whelk*” OR Bolinus OR “murex” OR ormer OR Haliotis OR “true limpet*” OR Patella OR Cellana OR Buccinum OR Concholepas OR conch* OR winkle* OR periwinkle* OR octopus OR squid* OR cuttlefish OR nautilus* OR Todarodes OR Loligo OR Sepia OR Paracentrotus OR Strongylocentrotus OR “Echinus esculentus” OR “sea cucumber*” OR “cukes” OR piure* OR pyura OR “sea violet*” OR “sea tulip*” OR “sea peach*” OR “sea pineapple*” OR “ice floe” OR “sea squirt*” OR gravad OR graved OR “gravad lax” OR gravlax OR sushi OR sashimi OR surimi OR ceviche OR caviar OR albacore OR amberjack OR anchovy OR anchovies

OR angler OR anglerfish* OR anguilla OR argentine OR Argyrosomus OR bacha OR barbel OR barracuda OR basa OR bass OR beluga OR bib OR bigeye OR blackfish OR bleak OR blenny OR bluefish OR “blue runner” OR “blue shark” OR bonito OR branzino OR bream OR brill OR burbot OR butterfly OR Capellin OR carp OR catfish OR catshark OR “Chelon auratus” OR chub OR “clupea harengus” OR cod OR comber OR conger OR corb OR cutlassfish OR cyclopterus OR Cyprinus OR cyprinidae OR dab OR “danubian wels” OR dentex OR dicentrarchus OR dogfish OR eel OR emperor OR engraulis OR flathead OR flounder OR “flying fish” OR forkbeard OR gadus OR garfish OR garrick OR goby OR goldline OR grouper OR guitarfish OR gunard OR haddock OR hake OR halibut OR hammerhead OR herring OR hippoglossus OR hoki OR huss OR icefish OR “John dory” OR “Katsuwonus pelamis” OR labrus OR lamprey OR lanternfish OR leerfish OR ling OR “little tunny” OR “Liza aurata” OR lophius OR lumpfish OR lythe OR mackerel OR “mahi mahi” OR “mallotus villosus” OR marlin OR meagre OR megrim OR melva OR merluccius OR Micromesistius OR monkfish OR moonfish OR mugil OR mullet OR “mullus barbatus” OR needlefish OR Oncorhynchus OR oreo OR osmeridae OR pacu OR pandoras OR panga OR pangasius OR parrotfish OR “parrot fish” OR perch OR picarel OR pike OR pikeperch OR pilchard OR pilotfish OR “pilot fish” OR platichthys OR plaice OR pleuronectes OR pollan OR Pollack OR Pollock OR ponyfish OR porbeagle OR pout OR pouting OR ray OR ribbonfish OR rigg OR rockfish OR rosefish OR sablefish OR sailfish OR salmon OR salmo OR sandeel OR sardine OR sardina OR sardinella OR scabbardfish OR scomber OR scophthalmus OR scorpionfish OR “sea bass” OR seabass OR seabream OR “sea bream” OR seriola OR sheatfish OR “shi drum” OR sild OR sillago OR skipjack OR smelt OR smooth hound OR “smooth-hound” OR snapper OR snook OR sole OR solea OR sparidae OR sparus OR sparling OR spearfish OR sprat OR sprattus OR “St Peter’s fish” OR stargazer OR stingray OR stizostedion OR sturgeon OR “surgeon fish” OR trachurus OR swordfish OR tailor OR tench OR theragra OR thunnus OR tilapia OR tinca OR threadfin OR triggerfish OR trisopterus OR trout OR tubefish OR tuna OR turbot OR tusk OR walleye OR weever OR whitebait OR whiting OR wrasse OR yellowtail

Seafood Composite:

meal OR meals OR food OR foods OR “buffet meal*” OR “complex food” OR “frozen meal*” OR multi-ingredient OR “multi ingredient” OR ready-to-eat OR RTE OR “ready meal” OR “ready prepared” OR “ready to eat” OR “under vacuum” OR composite* OR convenience OR cured OR dip OR dips OR dish OR dishes OR dressing* OR dumpling* OR fermented OR filling OR gravy OR macerated OR marinad* OR marinate* OR mayonnaise OR pasta OR pizza OR pickled OR preserved OR pudding* OR puree* OR salsa OR salsas OR salted OR

sandwich* OR sashimi OR ceviche OR sauce* OR smoked OR
snack OR snacks OR soup OR soups OR stew* OR surimi OR
sushi OR topping* OR chowder

AND NOT Terms (Title-Keywords-Abstract):

“in vitro” OR “in-vitro” OR “challenge study” OR “essential
oil*” OR attribution OR biofilm* OR “plant extract” OR
“extracts” OR feed OR livestock OR sanitiser OR sanitizer OR
spiked OR “feed supplement*”

Articles will be searched in the e-bibliographic databases PubMed, Web of Science Core Collection (Science Citation Index Expanded and Emerging Sources Citation Index), Scopus and SciELO (<https://scielo.org>), using the aforementioned terms duly connected (General terms AND Fish parasite AND Foodstuff AND NOT Selected terms) and in the proper database syntax (see **Annex 2**). The entries will be filtered by database insertion date (according to the search periods specified in Section 1), type of publication (only primary research articles) and languages (English, Spanish, French and Portuguese²). Date of searches and number of records retrieved will be duly documented. The bibliographic search process in the four databases will be carried out by two researchers working in parallel and on the same day, who will then compare the number of records recovered, which should duly match in order to proceed with the next steps.

2.3 Primary studies coming from meta-analysis

The number of primary studies included in the three systematic reviews and meta-analysis are: 123 studies from Fiorenza et al. (2020), 83 studies from Mercken et al. (2020), and 260 studies from Rahmati et al. (2020). The reference list will be compiled in Bibtex file. These “additional” references will be tagged according to their origin. They are referred to as “meta-analyses database” below.

2.4 Deduplication of individual studies

The volume of bibliographic citations will be documented and managed in a project built on DistillerSR software, which will be set to identify duplicate references. Duplicates will be carefully checked and deleted/merged by the two researchers. All these papers from these two projects will constitute the “original search” for the first year of the project, upon which systematic review and data extraction will be conducted during the first year. Deduplication will be initially performed after joining the bibliographic searches from the four different literature search engines; and then in April 2024, after joining the previous deduplicated database and the meta-analysis sourced database.

After April 2024, records will be kept in one single reference database. The reference databases will be managed by two senior experts in systematic review, who will ensure maintenance and updating of the databases at the different stages of the review process.

² Only these additional languages are considered for being the working languages of the IPB-Anses team.

2.5. Prioritisation of the literature search

The literature screening and data extraction of the search of September 2023 will be prioritised as follows. Priority is to retrieve data on *Anisakids* in fishery products from *aquaculture* in *European countries* (referred to as “priority 1”) to allow using these data in the scientific opinion on risk assessment of parasites in fishery products part 1 (i.e. addressing terms of reference 1 – 3) (EFSA-Q-2023-00090³). Further, data on *Anisakids* in wild caught fishery products from all countries will be gathered (referred to as “priority 2”). Then, at a later stage, data on other fish parasites in wild caught fishery products in all countries (referred to as “priority 3”), that would allow using these data in the scientific opinion on risk assessment of parasites in fishery products part 2, covering terms of reference 4 (EFSA-Q-2023-00172⁴). For the later searches (September 2024, September 2025, and January 2026), there will not be any prioritisation; data on *Anisakids* and other parasites in fishery products from aquaculture and wild caught fish in all countries will be obtained at the same time.

2.5.1 Priority 1 (December 2023)

1. The citations resulting from the literature search using the terms specified in Section 2.3 will be narrowed down as follows:
 - Restriction to *Anisakids* parasites only: (*Title-Keywords-Abstract*) using the terms indicated in Section 2.3
 - Restriction to aquaculture: (*Title-Keywords-Abstract*)
Aquacultur* OR "cultured" OR farm OR farmed OR farming OR Piscicult*
 - Restriction to European countries : (AFFILCOUNTRY) OR (Title-Keywords-Abstract) (AD in WoS)
Albania OR Andorra OR Armenia OR Austria OR Azerbaijan OR Belarus OR Belgium OR Bosnia and Herzegovina OR Bulgaria OR Croatia OR Cyprus OR Czech Republic OR Denmark OR England OR Estonia OR Finland OR France OR Georgia OR Germany OR Greece OR Hungary OR Iceland OR Ireland OR Italy OR Kazakhstan OR Kosovo OR Latvia OR Liechtenstein OR Lithuania OR Luxembourg OR Macedonia OR Malta OR Moldova OR Monaco OR Montenegro OR Netherlands OR North Macedonia OR Norway OR Poland OR Portugal OR Romania OR Russia OR San Marino OR Serbia OR Slovakia OR Slovenia OR Scotland OR Spain OR Sweden OR Switzerland OR Turkey OR Türkiye OR Ukraine OR United Kingdom OR UK OR Vatican OR Wales OR Yugoslavia OR Europe* OR EU OR Faroe*
 - Filtering by year of publication: (*period/year of publication*) 1/12/2020 to 30/09/2023

³ <https://open.efsa.europa.eu/questions/EFSA-Q-2023-00090>

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2023-00172>

2. The meta-analyses database will be filtered as follows:

- Restriction to aquaculture: (*Title-Keywords-Abstract*)
Aquacultur* OR "cultured" OR farm OR farmed OR farming OR Piscicult
- Restriction to European countries: (Affiliation) OR (title-Keywords-Abstract)
Albania OR Andorra OR Armenia OR Austria OR Azerbaijan OR Belarus OR Belgium OR Bosnia and Herzegovina OR Bulgaria OR Croatia OR Cyprus OR Czech Republic OR Denmark OR England OR Estonia OR Finland OR France OR Georgia OR Germany OR Greece OR Hungary OR Iceland OR Ireland OR Italy OR Kazakhstan OR Kosovo OR Latvia OR Liechtenstein OR Lithuania OR Luxembourg OR Macedonia OR Malta OR Moldova OR Monaco OR Montenegro OR Netherlands OR North Macedonia OR Norway OR Poland OR Portugal OR Romania OR Russia OR San Marino OR Serbia OR Slovakia OR Slovenia OR Scotland OR Spain OR Sweden OR Switzerland OR Turkey OR Türkiye OR Ukraine OR United Kingdom OR UK OR Vatican OR Wales OR Yugoslavia OR Europe* OR EU OR Faroe*
- Filtering by year of publication: 1/1/2010 to 30/08/2020 (last period of bibliographic search coming from Rahmati et al., 2020)

Notice that there is a small overlap in 2020, so as not to miss any recent and relevant publications.

2.5.2 Priority 2 (April 2024)

1. For citations coming from the literature search, papers not already selected will be filtered as follows:
 - Restriction to Anisakids parasites: (*Title-Keywords-Abstract*) as above
 - Filtering by period or year of publication: 1/12/2020 to 30/09/2023
2. Papers from meta-analyses that have not already been selected will be filtered according to the period of publication: 1/1/2010 to 30/08/2020 (last period of bibliographic search coming from Rahmati et al. 2020)

2.5.3 Priority 3 (September 2024)

From the original search, publications not yet selected after 2010 from “Priority 1” and “Priority 2” will be considered.

For the later searches, no restrictions will be further applied, except for publication date (after 2000).

2.6 Selecting the individual studies

The whole process of selection of individual studies will be carried out by two trained reviewers and two senior reviewers. Once all the entries have been deduplicated, relevant studies will be screened for inclusion by one trained reviewer. In case a new staff member joins the project, training in SR and a pilot will be conducted by the senior reviewers. Doubts on the inclusion of a study will be resolved in the regular meetings with the senior reviewer(s). Three steps will be followed:

- a. *Title/abstract (Ti/Ab) screening.* Each of the titles and abstracts from the bibliographic databases will be screened for its relevance to answering the review question. The number of records that did not pass this first screening or remained unclear will be annotated.
- b. *Examining full-text reports.* Records that pass the Ti/Ab screening and those that remain unclear will undergo an examination at full-text level. Each full-text reference will be screened for eligibility based on record and study characteristics, according to the inclusion criteria outlined in Section 2.2. All annotations relative to the inclusion criteria, study characteristics and outcome data will be made in the environment of the DistillerSR project.
- c. *Identification of possible duplicate publications.* Because sometimes the same study is reported or partially reported in two or more articles, these situations must be carefully identified to avoid double-counting. Records likely to be linked to the same study will be marked in the DistillerSR project for posterior evaluation, in discussion with one of the senior reviewers. If the evaluation of results points towards the case of a duplicate publication, the linked records will be grouped and examined as one study unit.

Each stage of the study selection process will be well documented, in order to make it (re)-assessable. The number of studies eligible for inclusion will be annotated, while, for the studies excluded at the full-text report level, the reasons for exclusion will be provided. To register the flow of the number of literature records along the different phases of the systematic review, a PRISMA chart will be used. A PRISMA chart template can be found in **Annex 3**.

2.7 Assessing the methodological quality

Each eligible primary research study will undergo a quality assessment. The results of a study will be signalled as *having potential for bias* if there is any suspicious of:

- a. *Selection bias:* in situations where there is a suspicion that proper randomisation of the food units was not achieved. For instance, when sampling was undertaken in the context of a monitoring program/surveillance implemented after an outbreak, or microbiological analysis of food sampled at retail but close to the end of shelf life.
- b. *Aggregation bias or reporting bias:* Prevalence or enumeration results are combined for distinct food classes within the same food category or combined for

samples from different food chain stages (for instance: prevalence data combined for non-filleted and filleted fish).

- c. *Detection bias*: The outcomes of a study will be signalled as being potentially biased if any of the following two situations arises:

c1. Detection and/or quantification of the fish parasite is not undertaken using an approved or known microbiological method, or the method is not fully described (either in the study or in the reference publication). All items related to the methods should/must be filled in, except the limit of detection or quantification.

c2. Amount (weight, volume, surface or whole unit) of the analytical sample is not explicitly indicated in the study, but assumed from authors' previous publications, from the range of analytical sample amount provided in the text or taken from manufacturer's instructions in case a kit was used.

- d. *Quality of reporting*: In cases of lack of concordance between results presented in the text and those compiled in the table(s), the ones presented in tabular format will be taken, and the results marked as potentially biased. Unclear calculation of mean counts is another reason for marking a study as having poor quality of reporting.

The results taken from studies that present at least one of the aforementioned validity threats will be marked as potentially biased, in order to perform sensitivity analysis at a later stage during meta-analysis. Meeting more than one potential-for-bias criterion will not be considered sufficient to discard a study. Every study will undergo quality assessment by one reviewer, who, when in doubt, will consult with the second reviewer. Where there is no consensus, the senior reviewer(s) will resolve doubts on methodological quality assessment, and furthermore they will corroborate the correctness of the status of those studies marked as being potentially biased.

2.8 Data extraction from primary research studies

The data to be extracted are related to (i) general framing of the study, (ii) study characteristics relevant to explain heterogeneity in the outcomes; namely the nature of the food sampled and the method of detection/quantification, and (iii) outcome measures, detection and/or quantification.

The data extraction form is in Excel format. The data extraction will first be carried out using Excel for the eligible studies. Further on, the extracted data in Excel format will be automatically fed to the PIF database.

For negative results, the relative genus with negative results will be extracted in the database if this genus is clearly mentioned in the text or in the Table. The problem can arise from general morphological examination for Anisakids. For example if a sample is positive for *Anisakis* and negative for *Pseudoterranova* (genus explicitly mentioned in

the Text or in Table) both information will be retained for extraction. If *Contracaecum* (another Anisakids) is not mentioned in the text or in the table, it will not be extracted. For *Phocanema* /*Pseudoterranova* or *Dibothriocephalus* /*Diphyllbothrium* the two terms of the parasite will be kept separate in the data base, and the name of the parasite will be as given in the publication.

The priority list of fish in **annex 6** will be used for priority 1 (December 2023) and priority 2 (April 2024).

The different fields of the data extraction are given below.

2.8.1 General framing data

Study ID: Unique identifier of the study. StudyID follows the rule: “FirstAuthorSurname_AbbreviatedJournal_PublicationYear”.

Study type: (a) Survey, for studies whose objective was to characterise or investigate the microbiological safety of food, or its compliance to legislation; (b) Comparison, for studies comparing methods of detection of pathogens; and (c) Other, for any other type of study.

Country of publication: country of the institutional address of the corresponding author.

Year: starting year of the sampling.

Study duration: duration of the sampling in months.

Study origin: indicates whether the primary study was selected from one of the three meta-analyses (Fiorenza, Mercken, Rahmati) or from the current literature search (SR)

2.8.2 Food characteristics data

The following study characteristics describe the food sample.

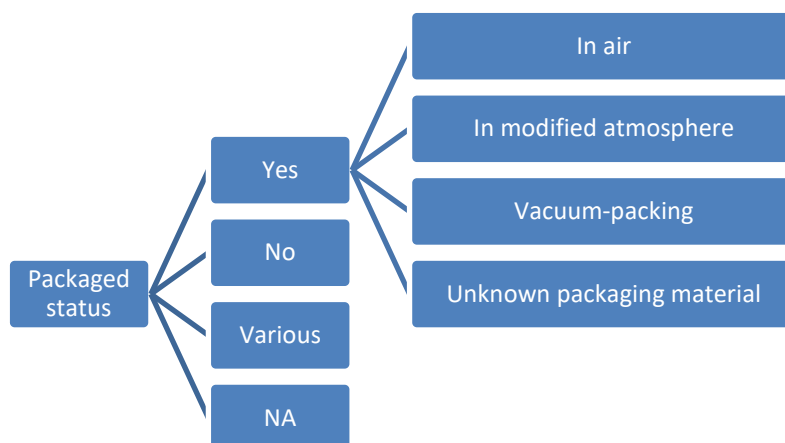
Country of sampling: country where the food was sampled.

Country of origin: country of production/processing of the food if stated in the study as different from the country of sampling.

Country of consumption (to be confirmed for PIF): country where the food is consumed (if specified in the publication) (export for European countries)

Packaged status: (a) Yes, for samples of food in any type of packaging. If food is packaged, the class “In air”, “In modified atmosphere”, “Vacuum-packing” or “Unknown packaging material” should be selected to indicate normal atmosphere package, modified atmosphere package, vacuum package or other type of packaging, respectively; (b) No,

for food samples without packaging, (c) Various, for samples of food that were both packaged and unpackaged, and (d) NA (not available), when the study does not indicate the packaging status of the food or cannot be reasonably deduced.



Sampling stage: refers to the stage of the food chain from which the sample was extracted:

(a) Primary Production, entailing any stage within primary production, such as

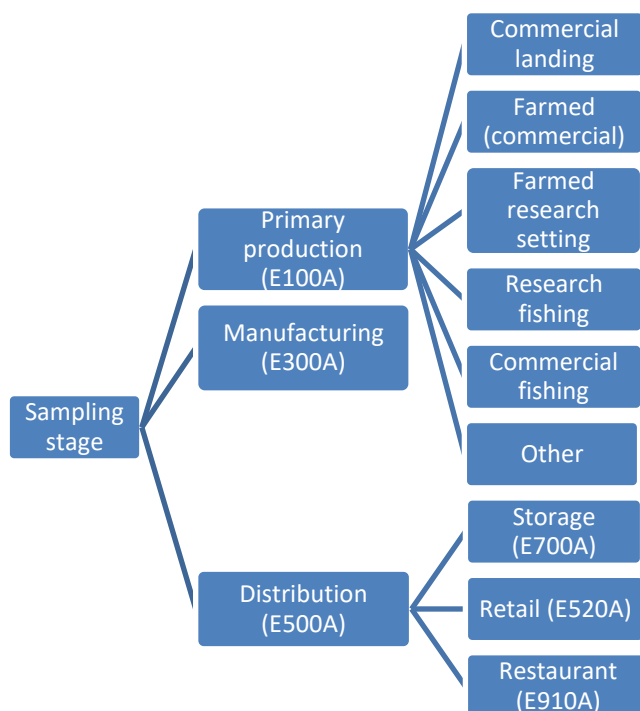
- Commercial landing
- Farmed (commercial)
- Farmed research setting
- Research fishing (on boat, fishing activity)
- Commercial fishing (on boat, fishing activity)
- harvesting
- Other

(b) Manufacturing, including any processing stage within the reception of raw materials and the end of processing, and (c) Distribution, entailing:

- Storage, when food products are sampled at the end of production
- Retail, when food products are sampled at any retail establishment or vending machines
- Restaurant, when sampling is carried out at restaurants or catering services.

Code	Name
E100A	Primary production
→xxx	➔ Commercial landing
E100A	Primary production
→xxx	➔ Farmed (commercial)
E100A	Primary production
→xxx	➔ Farmed research setting

E100A →xxx	Primary production → Research fishing
E100A →xxx	Primary production → Commercial fishing
E100A →xxx	Primary production → Harvesting
E100A →xxx	Primary production → NA
E300A	Manufacturing
E500A →E700A	Distribution: wholesale and retail sale →Storage
E500A →E520A	Distribution: wholesale and retail sale →Retail
E500A →E910A	Distribution: wholesale and retail sale →Restaurant



Production method: Consisting of the classes “Wild” and “Aquaculture” to indicate if the host (fish) is wild-caught or from aquaculture farm, respectively.

Fishing or harvesting area of origin: It refers mostly to the FAO area, approximated from the map or site name given in the publication. To see correspondence, refer to the FAO website: <https://www.fao.org/fishery/en/area/87/en>.

Geographical area: refers to the production level

- **FAO area :** refers to FAO area where the samples were fished
- **FAO subarea** refers to FAO subarea where the samples were fished
- **FAO division :** refers to FAO division where the samples were fished
- **FAO subdivision** refers to FAO sub division where the samples were fished
- **Unit FAO** refers to FAO unit where the samples were fished

Marine Coordinates (in WGS 84 projection system)

- **Latitude:** refers to the latitude in decimal degrees (if given in publication) or NA
- **Longitude** the longitude in decimal degrees (if given in publication) or NA

Geographical Label: the description of the geographic area as indicated in the study (as precise as in the publication). For example: “Wadden sea”, name of landings e.g “Port de la Rochelle”.

Temperature at sampling: refers to the temperature class of the food when sampled: (a) Ambient temperature, (b) Chill, (c) Frozen, (d) Various, and (e) Not available.

Month of begin of sampling: as indicated in the publication: full date or by default the first day of the month or NA.

Month of the end of sampling: as indicated in the publication: full date or by default the first day of the month or NA.

RTE status: refers to whether the food produced or being produced is ready-to-eat (Yes) or non-ready-to-eat (No).

Type of food: the food is categorised utilising a four-level hierarchy system comprising Category, Subcategory, Class and Subclass (Annex 4).

Food label: is the description of the food sample as indicated in the study (example: the latin name and the commercial name).

For all above fields: from the Latin name given in the publication (by example *Crassostrea gigas*), a search from WoRMS (<https://www.marinespecies.org/>) will be used to update the Latin name with the current marine organism classification (by

example *Magallana gigas*). The different levels of classification are deduced from WoRMs database.

Species of seafood: Latin name provided/checked from WoRMS (or NA)

Genus of seafood(s) refers to the genus of seafood(s) provided from WoRMS (or NA)

Family of seafood(s) refers to the family of seafood(s) from WoRMS (or NA)

Order of seafood(s): refers to the Order of seafood(s) provided from WoRMS (or NA)

Foodex2 code:

Common name and Latin names Foodex2: refers to the common name from Foodex2 (official name in English, e.g rainbow trout) (from the Latin name with Foodex2 correspondence or economic/vernacular name).

Type of sample : Indicates whether the sample is coming from (just after fishing) (a) whole fish, (b) gutted fish, (c) fillets or (d) other.

Organ sampled: When the sample is fish, information must be provided as to the organ sampled, which can be: digestive tract, stomach, bowel, whole fillet, belly flap, fillet without belly flap, visceral cavity, gonads, liver, whole fish, gutted fish or other.

2.8.2.1 Study (if common)/sub-sample: characteristics for parasites

From the Table given in **annex 1**.

Phylum (not needed for PIF): refers to the phylum of the parasite

Family: refers to the family of the parasite

Subfamily: refers to the subfamily of the parasite

Genus: refers to the genus of the parasite

Species: refers to the species of the parasite.

Parasite label: It is the description of the parasite as indicated in the study (old name by example).

2.8.2.2 Characteristics for methods

The detailed methods are given in **Annex 5** (confidential-under publication).

Type of essay: (a) Prevalence, when the objective of the study/sample is to investigate the presence or absence of the parasite in the samples; (b) Enumeration, when the objective of the study/sample is to quantify the density of the parasite species in the

samples; and (c) Both, when prevalence and enumeration essays are carried out in the samples.

Essay sample preparation type for prevalence: Refers to the type of method used to prepare the sample

Essay sample preparation details for prevalence : giving more precision

Detection essay type: Refers to the type of essay carried out for prevalence (as appendix 5).

Detection essay: Refers to the method used for prevalence (list of methods)

Essay sample preparation type for enumeration: Refers to the type of method used to prepare the sample

Essay sample preparation details for enumeration : giving more precision

Enumeration essay type: Refers to the type of essay carried out for enumeration (morphologic, molecular method, reference methods and other).

Enumeration essay: Refers to the method used for enumeration (list of methods)

Essay identification type: Refers to the type of essay carried out for the identification

Essay identification: Refers to the method used for identification (list of methods)

Essay infectivity type: Refers to the type of essay carried out to determine the infectivity of the parasite (staining, immunology, microscopy, metabolism, molecular method and other)

Essay infectivity: Refers to the method used for infectivity (list of methods)

2.8.3 Outcome data

Parasite unit: refers to the stages of the parasites and are therefore dependent on the parasite selected. (L3)

Sample weight unit: is the unit in which the amount of analytical sample is expressed: (a) g, (b) ml, (c) L, or (d) unit. Unit refers to the analysis of one entire unit.

Basis: stores the basis in which the results are reported, either wet basis or dry basis.

Recovery (0 - ~100%): refers to the recovery rate of parasites with the method employed in this study.

Total units tested detection: refers to the number of samples submitted for detection analysis.

Sample weight detection: it is the amount of analytical sample used in the prevalence essay.

Are results corrected for extraction/recovery? Yes/no question to be answered only if stated in the study.

Are results given after drying? Yes/no question to be answered only if stated in the study.

Comments: Any comments relevant for internal validation assessment.

2.8.3.1 Prevalence results

Detected: refers to the number of positive samples.

Automatic calculation of 95% CI (not imported in PIF):
With p= measured prevalence, N= sample size

Lower bounds : Lower bound of the confidence interval at 95%

$$p - 1.96 \sqrt{\frac{p(1-p)}{N}}$$

Upper bounds : Upper bound of the confidence interval at 95%

$$p + 1.96 \sqrt{\frac{p(1-p)}{N}}$$

Prevalence in % : $\frac{\text{number of positive samples}}{\text{total units tested}} \times 100$ (2 decimals)

2.8.3.2 Enumeration results

Sample weight enumeration: it is the amount of analytical sample used in the enumeration essay.

Total units tested enumeration: refers to the number of samples submitted for enumeration analysis in excel files, if different from the total units tested in the detection analysis.

Type of calculation: Abundance / intensity: Indicates whether the host results are expressed in abundance (Number of parasites per host, whether infected or not) or intensity (Number of parasites per infected host). Remark if both choices prefers intensity.

NA (potential for bias). This definition is in agreement with a reference in parasitology (Bush et al.,1997).

Counts model:

- Intensity
 - Non quantified samples imputed to LOQ
 - non impute, if no LOQ considered, and only quantified samples were used to calculate the mean
 - other
- Abundance
 - Non quantified samples and/or non detected imputed to zero
 - Non quantified samples and/or non detected imputed to LOQ
 - Non quantified samples and/or non detected imputed to LOD
 - other

Number of samples for enumeration: (linked to the type of calculation)

Counts unit: It is the unit in which the counts are given: raw numbers per sample weight unit, log base 10 numbers per sample weight unit, or natural logarithm of the numbers per sample weight unit.

Mean concentration: mean concentration of the parasite in the sample in the unit specified.

Median concentration: median concentration of the parasite in the sample in the unit specified.

Standard error: Standard error of the concentration of the parasite in the sample in the unit specified

Standard deviation: standard deviation of the concentration of the parasite in the sample in the unit specified

Automatic calculation of 95% CI of the mean (not imported in PIF):

Lower bounds : Lower bound of the confidence interval at 95%

$$\text{Mean} - 1.96 \frac{sd}{\sqrt{N}}$$

N= sample size

Upper bounds : Upper bound of the confidence interval at 95%

$$\text{Mean} + 1.96 \frac{sd}{\sqrt{N}}$$

Counts vector $\{C_1, \dots, C_9\}$: a vector of the concentration of the parasite in the (count) unit specified, measured in a maximum of nine individual samples. (1-10; 10-100; 100-500; 500-1000; >1000; >5000)

Minimum: refers to the minimum concentration of the parasite enumerated in a positive sample in the samples in the unit specified.

Maximum: refers to the maximum concentration of the parasite enumerated in a positive sample in the samples in the unit specified.

Infectivity results

Origin of the sample: for infectivity: positive with detection method, positive with enumeration method /other (explain if other)

Number of samples for infectivity: it is the total samples used in the infectivity essay.

Infectivity (%): Percentage of infectivity in the samples tested.

Identification results

Number of samples for (mostly species) identification : Provides information on the number of parasites that have been passed through the identification methods (the result is given in parasite characteristics)

Comments: if any: extrapolation from publication, for example.

Potential for bias: according to the assessment of methodological quality (Section 2.6), results are marked as potentially biased (1) or not (0).

Bias type: If results are marked as potentially biased, the type of bias must be selected: Selection bias, Aggregation bias, Detection bias, Reporting quality, Multiple, or Other.

Reason: Any comments explaining the reason for the choice of the bias potential type.

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The eligible articles will be divided by two, so that the two trained reviewers will collect the data independently. At the end, one reviewer will verify the conformity of the data extracted by the other. Any doubts will be solved with the senior reviewer(s) in bimonthly meetings.

3. Maintenance of the Reference Databases

For each SR process, three reference databases will be kept and duly uploaded on the Zenodo Community “Resources of PIF” (<https://zenodo.org/communities/pif>) at the end of every search-insertion period. BibTeX filenames will have the following format (Annex 3):

XYPeriod_WithoutDups.BibTeX: de-duplicated records of studies published in the period X to Y.

XYPeriod_Clean.BibTeX: eligible records of studies ready for insertion in the PIF database, published in the period X to Y.

XYPeriod_CleanFinal.BibTeX: final records whose data were inserted on PIF database, covering studies published in the period X to Y.

4. Modifications to the protocol

Any modification to the present protocol during the implementation of the project will be agreed upon between the parties and will be made effective through written amendment.

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7. Disclaimer

EFSA is not responsible for any use that may be made of the information in this protocol.

8. Annex

Annex 1: List of pathogens

Phylum	Family	Subfamily	Genus	Species	Taxonomy old (if needed)	Custom type (if needed)
Nematoda	Anisakidae	Anisakinae	<i>Anisakis</i>	<i>A. simplex</i> (s. s.)	<i>A. simplex</i>	
				<i>A. pegreffii</i>	<i>A. simplex</i>	
				<i>A. typica</i> sp. A <i>A. typica</i> sp. B	<i>A. typica</i>	
			<i>Phocanema</i> (formerly <i>Pseudoterranova decipiens</i> s.l.)/ other <i>Pseudoterranova</i>	<i>Ph. decipiens</i> (s.s.) (formerly <i>Pseudoterranova decipiens</i>)	<i>P. decipiens</i> (s.s.)	
				<i>Ph. krabbei</i>	<i>P. decipiens</i> (<i>P. krabbei</i>)	
				<i>Ph. bulbosa</i>	<i>P. decipiens</i> (<i>P. bulbosa</i>)	
				<i>Ph. azarasi</i>	<i>P. decipiens</i> (<i>P. azarasi</i>)	
				<i>Ph. cattani</i>	<i>P. decipiens</i> (<i>P. cattani</i>)	
			<i>Contracaecum</i>	<i>C. osculatum</i> (s.l.)	<i>C. osculatum</i>	
Platyhelminthes (Trematoda)	Heterophyidae		<i>Cryptocotyle</i>	<i>C. lingua</i>		
	Opisthorchiidae		<i>Opisthorchis</i>	<i>O. felinus</i>		
			<i>Methorchis</i>	<i>Methorchis</i> spp.		
			<i>Pseudamphistomum</i>	<i>P. truncatum</i>		
Platyhelminthes (Cestoda)	Diphylobothriidae		<i>Dibothriocephalus</i> (<i>Diphylobothrium</i>)	<i>Dibothriocephalus</i> spp. (syn. <i>Diphylobothrium</i>)		
Rotifera (Syndermata)/ Acanthocephala	Polymorphidae		<i>Bolbosoma</i>	<i>Bolbosoma</i> spp.		
			<i>Corynosoma</i>	<i>Corynosoma</i> spp.		
Cnidaria (Myxozoa)				<i>Myxosporidia</i> spp.		
				<i>Kudoa</i> spp.		

Annex 2: Search strategies

2.1. Search #1

The objective is to recover papers published on Anisakids in fishery in any country between 01-01-2020 and 30-09-2023

Only primary studies (not reviews) and in the 4 languages

2.1.1. SCOPUS

(TITLE-ABS-KEY("microbial quality") OR TITLE-ABS-KEY("microbial safety") OR TITLE-ABS-KEY("microbiological quality") OR TITLE-ABS-KEY("microbiological safety") OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(concentration) OR TITLE-ABS-KEY(contamination) OR TITLE-ABS-KEY(count*) OR TITLE-ABS-KEY(detection) OR TITLE-ABS-KEY(enumeration) OR TITLE-ABS-KEY(incidence) OR TITLE-ABS-KEY(investigation) OR TITLE-ABS-KEY(occurrence) OR TITLE-ABS-KEY(presence) OR TITLE-ABS-KEY(prevalence) OR TITLE-ABS-KEY(sampling) OR TITLE-ABS-KEY(survey*) OR TITLE-ABS-KEY(abundance) OR TITLE-ABS-KEY(intensity))

AND

(TITLE-ABS-KEY (Anisakidae) OR TITLE-ABS-KEY (anisakid*) OR TITLE-ABS-KEY (Anisakis) OR TITLE-ABS-KEY (Pseudoterranova) OR TITLE-ABS-KEY (Contracaecum) OR TITLE-ABS-KEY ({ A. simplex }) OR TITLE-ABS-KEY ({ A. pegreffii }) OR TITLE-ABS-KEY ({ A. berlandi }) OR TITLE-ABS-KEY ({ A. typica }) OR TITLE-ABS-KEY ({ A. ziphidarum }) OR TITLE-ABS-KEY ({ A. physeteris }) OR TITLE-ABS-KEY ({ A. brevispiculata }) OR TITLE-ABS-KEY ({ A. paggiae }) OR TITLE-ABS-KEY ({ A. nascettii }) OR TITLE-ABS-KEY ({ P. krabbei }) OR TITLE-ABS-KEY ({ P. decipiens }) OR TITLE-ABS-KEY ({ P. bulbosa }) OR TITLE-ABS-KEY ({ P. azarasi }) OR TITLE-ABS-KEY ({ P. cattani }) OR TITLE-ABS-KEY ({ C. osculatum }) OR TITLE-ABS-KEY ({ C. radiatum }) OR TITLE-ABS-KEY ({ C. mirounga }) OR TITLE-ABS-KEY ({ C. ogorhini }) OR TITLE-ABS-KEY ({ C. margolisi }) OR TITLE-ABS-KEY (Phocanema) OR TITLE-ABS-KEY ({ Ph. decipiens }) OR TITLE-ABS-KEY ({ Ph. azarasi }) OR TITLE-ABS-KEY ({ Ph. cattani }) OR TITLE-ABS-KEY ({ Ph. krabbei }) OR TITLE-ABS-KEY ({ Ph. bulbosa })

AND

(TITLE-ABS-KEY (seafood) OR TITLE-ABS-KEY (seafoods) OR TITLE-ABS-KEY ("sea food") OR TITLE-ABS-KEY ("sea foods") OR TITLE-ABS-KEY (crustacean*) OR TITLE-ABS-KEY (shellfish) OR TITLE-ABS-KEY (bivalve*) OR TITLE-ABS-

KEY(mollusc*) OR TITLE-ABS-KEY(mollusk*) OR TITLE-ABS-KEY(fish*) OR TITLE-ABS-KEY(finfish*) OR TITLE-ABS-KEY(“fishery product*”) OR TITLE-ABS-KEY(“marine gasteropod*”) OR TITLE-ABS-KEY(cephalopod) OR TITLE-ABS-KEY(cephalopods) OR TITLE-ABS-KEY(crustacean) OR TITLE-ABS-KEY(crustaceans) OR TITLE-ABS-KEY(echinoderm) OR TITLE-ABS-KEY(echinoderms) OR TITLE-ABS-KEY(“sea urchin”) OR TITLE-ABS-KEY(“sea urchins”) OR TITLE-ABS-KEY(holoturid*) OR TITLE-ABS-KEY(tunicate) OR TITLE-ABS-KEY(tunicates) OR TITLE-ABS-KEY(urchin*) OR TITLE-ABS-KEY(crab*) OR TITLE-ABS-KEY(prawn*) OR TITLE-ABS-KEY(shrimp*) OR TITLE-ABS-KEY(lobster*) OR TITLE-ABS-KEY(“crayfish”) OR TITLE-ABS-KEY(crabfish) OR TITLE-ABS-KEY(crawfish) OR TITLE-ABS-KEY(langoustine) OR TITLE-ABS-KEY(scampi) OR TITLE-ABS-KEY(“clam”) OR TITLE-ABS-KEY(“clams”) OR TITLE-ABS-KEY(“carpet shell*”) OR TITLE-ABS-KEY(scallop*) OR TITLE-ABS-KEY(Pecten) OR TITLE-ABS-KEY(oyster*) OR TITLE-ABS-KEY(cockle) OR TITLE-ABS-KEY(cockles) OR TITLE-ABS-KEY(mussel) OR TITLE-ABS-KEY(mussels) OR TITLE-ABS-KEY(mytilus) OR TITLE-ABS-KEY(“Pen shell*”) OR TITLE-ABS-KEY(snail*) OR TITLE-ABS-KEY(abalone*) OR TITLE-ABS-KEY(Nassarius) OR TITLE-ABS-KEY(“whelk*”) OR TITLE-ABS-KEY(Bolinus) OR TITLE-ABS-KEY(“murex”) OR TITLE-ABS-KEY(mer) OR TITLE-ABS-KEY(Haliotis) OR TITLE-ABS-KEY(“true limpet*”) OR TITLE-ABS-KEY(Patella) OR TITLE-ABS-KEY(Cellana) OR TITLE-ABS-KEY(Buccinum) OR TITLE-ABS-KEY(Concholepas) OR TITLE-ABS-KEY(conch*) OR TITLE-ABS-KEY(winkle*) OR TITLE-ABS-KEY(periwinkle*) OR TITLE-ABS-KEY(octopus) OR TITLE-ABS-KEY(squid*) OR TITLE-ABS-KEY(cuttlefish) OR TITLE-ABS-KEY(nautilus*) OR TITLE-ABS-KEY(Todarodes) OR TITLE-ABS-KEY(Loligo) OR TITLE-ABS-KEY(Sepia) OR TITLE-ABS-KEY(Paracentrotus) OR TITLE-ABS-KEY(Strongylocentrotus) OR TITLE-ABS-KEY(“Echinus esculentus”) OR TITLE-ABS-KEY(“sea cucumber*”) OR TITLE-ABS-KEY(“cukes”) OR TITLE-ABS-KEY(piure*) OR TITLE-ABS-KEY(pyura) OR TITLE-ABS-KEY(“sea violet*”) OR TITLE-ABS-KEY(“sea tulip*”) OR TITLE-ABS-KEY(“sea peach*”) OR TITLE-ABS-KEY(“sea pineapple*”) OR TITLE-ABS-KEY(“ice floe”) OR TITLE-ABS-KEY(“sea squirt*”) OR TITLE-ABS-KEY(gravad) OR TITLE-ABS-KEY(graved) OR TITLE-ABS-KEY("gravad lax") OR TITLE-ABS-KEY(gravlax) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(sashimi) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(caviar) OR TITLE-ABS-KEY(albacore) OR TITLE-ABS-KEY(amberjack) OR TITLE-ABS-KEY(anchovy) OR TITLE-ABS-KEY(anchovies) OR TITLE-ABS-KEY(angler) OR TITLE-ABS-KEY(anglerfish*) OR TITLE-ABS-KEY(anguilla) OR TITLE-ABS-KEY(argentine) OR TITLE-ABS-KEY(Argyrosomus) OR TITLE-ABS-KEY(bacha) OR TITLE-ABS-KEY(barbel) OR TITLE-ABS-KEY(barracuda) OR TITLE-ABS-KEY(basa) OR TITLE-ABS-KEY(bass) OR TITLE-ABS-KEY(beluga) OR TITLE-ABS-KEY(bib) OR TITLE-ABS-KEY(bigeye) OR TITLE-ABS-KEY(blackfish) OR TITLE-ABS-KEY(bleak) OR TITLE-ABS-KEY(blenny) OR TITLE-ABS-KEY(bluefish) OR

TITLE-ABS-KEY(“blue runner”) OR TITLE-ABS-KEY(“blue shark”) OR TITLE-ABS-KEY(bonito) OR TITLE-ABS-KEY(branzino) OR TITLE-ABS-KEY(bream) OR TITLE-ABS-KEY(brill) OR TITLE-ABS-KEY(burbot) OR TITLE-ABS-KEY(butterflyfish) OR TITLE-ABS-KEY(Capellin) OR TITLE-ABS-KEY(carp) OR TITLE-ABS-KEY(catfish) OR TITLE-ABS-KEY(catshark) OR TITLE-ABS-KEY(“Chelon auratus”) OR TITLE-ABS-KEY(chub) OR TITLE-ABS-KEY(“clupea harengus”) OR TITLE-ABS-KEY(cod) OR TITLE-ABS-KEY(comber) OR TITLE-ABS-KEY(conger) OR TITLE-ABS-KEY(corb) OR TITLE-ABS-KEY(cutlassfish) OR TITLE-ABS-KEY(cyclopterus) OR TITLE-ABS-KEY(Cyprinus) OR TITLE-ABS-KEY(cyprinidae) OR TITLE-ABS-KEY(dab) OR TITLE-ABS-KEY(“danubian wels”) OR TITLE-ABS-KEY(dentex) OR TITLE-ABS-KEY(dicentrarchus) OR TITLE-ABS-KEY(dogfish) OR TITLE-ABS-KEY(eel) OR TITLE-ABS-KEY(emperor) OR TITLE-ABS-KEY(engraulis) OR TITLE-ABS-KEY(flathead) OR TITLE-ABS-KEY(flounder) OR TITLE-ABS-KEY(“flying fish”) OR TITLE-ABS-KEY(forkbeard) OR TITLE-ABS-KEY(gadus) OR TITLE-ABS-KEY(garfish) OR TITLE-ABS-KEY(garrick) OR TITLE-ABS-KEY(goby) OR TITLE-ABS-KEY(goldline) OR TITLE-ABS-KEY(grouper) OR TITLE-ABS-KEY(guitarfish) OR TITLE-ABS-KEY(gunard) OR TITLE-ABS-KEY(haddock) OR TITLE-ABS-KEY(hake) OR TITLE-ABS-KEY(halibut) OR TITLE-ABS-KEY(hammerhead) OR TITLE-ABS-KEY(herring) OR TITLE-ABS-KEY(hippoglossus) OR TITLE-ABS-KEY(hoki) OR TITLE-ABS-KEY(huss) OR TITLE-ABS-KEY(icefish) OR TITLE-ABS-KEY(“John dory”) OR TITLE-ABS-KEY(“Katsuwonus pelamis”) OR TITLE-ABS-KEY(labrus) OR TITLE-ABS-KEY(lamprey) OR TITLE-ABS-KEY(lanternfish) OR TITLE-ABS-KEY(leerfish) OR TITLE-ABS-KEY(ling) OR TITLE-ABS-KEY(“little tunny”) OR TITLE-ABS-KEY(“Liza aurata”) OR TITLE-ABS-KEY(lophius) OR TITLE-ABS-KEY(lumpfish) OR TITLE-ABS-KEY(lythe) OR TITLE-ABS-KEY(mackerel) OR TITLE-ABS-KEY(“mahi mahi”) OR TITLE-ABS-KEY(“mallotus villosus”) OR TITLE-ABS-KEY(marlin) OR TITLE-ABS-KEY(meagre) OR TITLE-ABS-KEY(megrim) OR TITLE-ABS-KEY(melva) OR TITLE-ABS-KEY(merluccius) OR TITLE-ABS-KEY(Micromesistius) OR TITLE-ABS-KEY(monkfish) OR TITLE-ABS-KEY(moonfish) OR TITLE-ABS-KEY(mugil) OR TITLE-ABS-KEY(mullet) OR TITLE-ABS-KEY(“mullus barbatus”) OR TITLE-ABS-KEY(needlefish) OR TITLE-ABS-KEY(Oncorhynchus) OR TITLE-ABS-KEY(oreo) OR TITLE-ABS-KEY(osmeridae) OR TITLE-ABS-KEY(pacu) OR TITLE-ABS-KEY(pandoras) OR TITLE-ABS-KEY(panga) OR TITLE-ABS-KEY(pangasius) OR TITLE-ABS-KEY(parrotfish) OR TITLE-ABS-KEY(“parrot fish”) OR TITLE-ABS-KEY(perch) OR TITLE-ABS-KEY(picarel) OR TITLE-ABS-KEY(pike) OR TITLE-ABS-KEY(pikeperch) OR TITLE-ABS-KEY(pilchard) OR TITLE-ABS-KEY(pilotfish) OR TITLE-ABS-KEY(“pilot fish”) OR TITLE-ABS-KEY(platichthys) OR TITLE-ABS-KEY(plaice) OR TITLE-ABS-KEY(pleuronectes) OR TITLE-ABS-KEY(pollan) OR TITLE-ABS-KEY(Pollack) OR TITLE-ABS-KEY(Pollock) OR TITLE-ABS-KEY(ponyfish) OR TITLE-ABS-KEY(porbeagle) OR TITLE-ABS-KEY(pout) OR TITLE-ABS-KEY(pouting) OR TITLE-ABS-KEY(ray) OR TITLE-ABS-KEY(ribbonfish)

OR TITLE-ABS-KEY(rigg) OR TITLE-ABS-KEY(rockfish) OR TITLE-ABS-KEY(rosefish) OR TITLE-ABS-KEY(sablefish) OR TITLE-ABS-KEY(sailfish) OR TITLE-ABS-KEY(salmon) OR TITLE-ABS-KEY(salmo) OR TITLE-ABS-KEY(sandeel) OR TITLE-ABS-KEY(sardine) OR TITLE-ABS-KEY(sardina) OR TITLE-ABS-KEY(sardinella) OR TITLE-ABS-KEY(scabbardfish) OR TITLE-ABS-KEY(scomber) OR TITLE-ABS-KEY(scophthalmus) OR TITLE-ABS-KEY(scorpionfish) OR TITLE-ABS-KEY(“sea bass”) OR TITLE-ABS-KEY(seabass) OR TITLE-ABS-KEY(seabream) OR TITLE-ABS-KEY(“sea bream”) OR TITLE-ABS-KEY(seriola) OR TITLE-ABS-KEY(sheatfish) OR TITLE-ABS-KEY(“shi drum”) OR TITLE-ABS-KEY(sild) OR TITLE-ABS-KEY(sillago) OR TITLE-ABS-KEY(skipjack) OR TITLE-ABS-KEY(smelt) OR TITLE-ABS-KEY(smooth hound) OR TITLE-ABS-KEY(“smooth-hound”) OR TITLE-ABS-KEY(snapper) OR TITLE-ABS-KEY(snook) OR TITLE-ABS-KEY(sole) OR TITLE-ABS-KEY(solea) OR TITLE-ABS-KEY(sparidae) OR TITLE-ABS-KEY(sparus) OR TITLE-ABS-KEY(sparling) OR TITLE-ABS-KEY(spearfish) OR TITLE-ABS-KEY(sprat) OR TITLE-ABS-KEY(sprattus) OR TITLE-ABS-KEY(“St Peter’s fish”) OR TITLE-ABS-KEY(stargazer) OR TITLE-ABS-KEY(stingray) OR TITLE-ABS-KEY(stizostedion) OR TITLE-ABS-KEY(sturgeon) OR TITLE-ABS-KEY(“surgeon fish”) OR TITLE-ABS-KEY(trachurus) OR TITLE-ABS-KEY(swordfish) OR TITLE-ABS-KEY(tailor) OR TITLE-ABS-KEY(tench) OR TITLE-ABS-KEY(theragra) OR TITLE-ABS-KEY(thunnus) OR TITLE-ABS-KEY(tilapia) OR TITLE-ABS-KEY(tinca) OR TITLE-ABS-KEY(threadfin) OR TITLE-ABS-KEY(triggerfish) OR TITLE-ABS-KEY(trisopterus) OR TITLE-ABS-KEY(trout) OR TITLE-ABS-KEY(tubefish) OR TITLE-ABS-KEY(tuna) OR TITLE-ABS-KEY(turbot) OR TITLE-ABS-KEY(tusk) OR TITLE-ABS-KEY(walleye) OR TITLE-ABS-KEY(weever) OR TITLE-ABS-KEY(whitebait) OR TITLE-ABS-KEY(whiting) OR TITLE-ABS-KEY(wrasse) OR TITLE-ABS-KEY(yellowtail) OR TITLE-ABS-KEY(meal) OR TITLE-ABS-KEY(meals) OR TITLE-ABS-KEY(food) OR TITLE-ABS-KEY(foods) OR TITLE-ABS-KEY(“buffet meal”) OR TITLE-ABS-KEY(“complex food”) OR TITLE-ABS-KEY(“frozen meal”) OR TITLE-ABS-KEY(multi-ingredient) OR TITLE-ABS-KEY(“multi ingredient”) OR TITLE-ABS-KEY(ready-to-eat) OR TITLE-ABS-KEY(RTE) OR TITLE-ABS-KEY(“ready meal”) OR TITLE-ABS-KEY(“ready prepared”) OR TITLE-ABS-KEY(“ready to eat”) OR TITLE-ABS-KEY(“under vacuum”) OR TITLE-ABS-KEY(composite*) OR TITLE-ABS-KEY(convenience) OR TITLE-ABS-KEY(cured) OR TITLE-ABS-KEY(dip) OR TITLE-ABS-KEY(dips) OR TITLE-ABS-KEY(dish) OR TITLE-ABS-KEY(dishes) OR TITLE-ABS-KEY(dressing*) OR TITLE-ABS-KEY(dumpling*) OR TITLE-ABS-KEY(fermented) OR TITLE-ABS-KEY(filling) OR TITLE-ABS-KEY(gravy) OR TITLE-ABS-KEY(macerated) OR TITLE-ABS-KEY(marinad*) OR TITLE-ABS-KEY(marinate*) OR TITLE-ABS-KEY(mayonnaise) OR TITLE-ABS-KEY(pasta) OR TITLE-ABS-KEY(pizza) OR TITLE-ABS-KEY(pickled) OR TITLE-ABS-KEY(preserved) OR TITLE-ABS-KEY(pudding*) OR TITLE-ABS-KEY(puree*) OR TITLE-ABS-KEY(salsa) OR TITLE-ABS-KEY(salsas) OR TITLE-ABS-KEY(salted) OR TITLE-ABS-KEY(sandwich*) OR TITLE-ABS-KEY(

sashimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(sauce*) OR TITLE-ABS-KEY(smoked) OR TITLE-ABS-KEY(snack) OR TITLE-ABS-KEY(snacks) OR TITLE-ABS-KEY(soup) OR TITLE-ABS-KEY(soups) OR TITLE-ABS-KEY(stew*) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(topping*) OR TITLE-ABS-KEY(chowder))

AND NOT

(TITLE-ABS-KEY("in vitro") OR TITLE-ABS-KEY("in-vitro") OR TITLE-ABS-KEY("challenge study") OR TITLE-ABS-KEY("essential oil*") OR TITLE-ABS-KEY(attribution) OR TITLE-ABS-KEY(biofilm*) OR TITLE-ABS-KEY("plant extract") OR TITLE-ABS-KEY("extracts") OR TITLE-ABS-KEY(feed) OR TITLE-ABS-KEY(livestock) OR TITLE-ABS-KEY(sanitiser) OR TITLE-ABS-KEY(sanitizer) OR TITLE-ABS-KEY(spiked) OR TITLE-ABS-KEY("feed supplement*"))

AND

((LOAD-DATE AFT 20200101) AND (LOAD-DATE BEF 20230930))

AND

(PUBYEAR AFT 2019)

i. Type of publication (primary research articles)

Filter by document types 'Article' and "Undefined"

[or in the query string, add: AND (LIMIT-TO (DOCTYPE,"ar") OR (DOCTYPE,"Undefined"))]

ii. Language (English, Spanish, French, Portuguese, undefined)

Filter by languages 'English', 'Spanish', 'French', 'Portuguese' and "Undefined"

[or in the query string, add: AND (LIMIT-TO (LANGUAGE,"English") OR LIMIT-TO (LANGUAGE,"French") OR LIMIT-TO (LANGUAGE,"Spanish") OR LIMIT-TO (LANGUAGE,"Portuguese") OR LIMIT-TO (LANGUAGE,"Undefined"))]

Save results as Anisakids2020-2023_Scopus

2.1.2. Web of Science

(TS=(“microbial quality” OR “microbial safety” OR “microbiological quality” OR “microbiological safety” OR analyses OR analysis OR concentration OR contamination OR count* OR detection OR enumeration OR incidence OR investigation OR occurrence OR presence OR prevalence OR sampling OR survey* OR abundance OR intensity))

AND

(TS=(Anisakidae OR anisakid* OR Anisakis OR Pseudoterranova OR Contracaecum OR “A. simplex” OR “A. pegreffii” OR “A. berlandi” OR “A. typica” OR “A. ziphidarum” OR “A. physeteris” OR “A. brevispiculata” OR “A. paggiae” OR “A. nascettii” OR “P. krabbei” OR “P. decipiens” OR “P. bulbosa” OR “P. azarasi” OR “P. cattani” OR “C. osculatum” OR “C. radiatum” OR “C. mirounga” OR “C. ogmorhini” OR “C. margolisi” OR Phocanema OR “Ph. decipiens” OR “Ph. azarasi” OR “Ph. cattani” OR “Ph. krabbei” OR “Ph. bulbosa”))

)

AND

TS=(seafood OR seafoods OR “sea food” OR “sea foods” OR crustacean* OR shellfish OR bivalve* OR mollusc* OR mollusk* OR fish* OR finfish* OR “fishery product*” OR “marine gasteropod*” OR cephalopod OR cephalopods OR crustacean OR crustaceans OR echinoderm OR echinoderms OR “sea urchin” OR “sea urchins” OR holoturid* OR tunicate OR tunicates OR urchin* OR crab* OR prawn* OR shrimp* OR lobster* OR “crayfish” OR crabfish OR crawfish OR langoustine OR scampi OR “clam” OR “clams” OR “carpet shell*” OR scallop* OR Pecten OR oyster* OR cockle OR cockles OR mussel OR mussels OR mytilus OR “Pen shell*” OR snail* OR abalone* OR Nassarius OR “whelk*” OR Bolinus OR “murex” OR ormer OR Haliotis OR “true limpet*” OR Patella OR Cellana OR Buccinum OR Concholepas OR conch* OR winkle* OR periwinkle* OR octopus OR squid* OR cuttlefish OR nautilus* OR Todarodes OR Loligo OR Sepia OR Paracentrotus OR Strongylocentrotus OR “Echinus esculentus” OR “sea cucumber*” OR “cukes” OR piure* OR pyura OR “sea violet*” OR “sea tulip*” OR “sea peach*” OR “sea pineapple*” OR “ice floe” OR “sea squirt*” OR gravad OR graved OR “gravad lax” OR gravlax OR sushi OR sashimi OR surimi OR ceviche OR caviar OR albacore OR amberjack OR anchovy OR anchovies OR angler OR anglerfish* OR anguilla OR argentine OR Argyrosomus OR bacha OR barbel OR barracuda OR basa OR bass OR beluga OR bib OR bigeye OR blackfish OR bleak OR blenny OR bluefish OR “blue runner” OR “blue shark” OR bonito OR branzino OR bream OR brill OR burbot OR butterfish OR Capellin OR carp OR catfish OR catshark OR “Chelon auratus” OR chub OR “clupea harengus” OR cod OR comber OR conger OR corb OR cutlassfish OR cyclopterus OR Cyprinus OR cyprinidae OR dab OR “danubian wels” OR dentex OR dicentrarchus OR dogfish OR eel OR emperor OR engraulis OR flathead OR flounder OR “flying fish” OR forkbeard OR gadus OR garfish OR garrick OR goby OR goldline

OR grouper OR guitarfish OR gunard OR haddock OR hake OR halibut OR hammerhead
OR herring OR hippoglossus OR hoki OR huss OR icefish OR “John dory” OR
“Katsuwonus pelamis” OR labrus OR lamprey OR lanternfish OR leerfish OR ling OR
“little tunny” OR “Liza aurata” OR lophius OR lumpfish OR lythe OR mackerel OR
“mahi mahi” OR “mallotus villosus” OR marlin OR meagre OR megrim OR melva OR
merluccius OR Micromesistius OR monkfish OR moonfish OR mugil OR mullet OR
“mullus barbatus” OR needlefish OR Oncorhynchus OR oreo OR osmeridae OR pacu
OR pandoras OR panga OR pangasius OR parrotfish OR “parrot fish” OR perch OR
picarel OR pike OR pikeperch OR pilchard OR pilotfish OR “pilot fish” OR platichthys
OR plaice OR pleuronectes OR pollan OR Pollack OR Pollock OR ponyfish OR
porbeagle OR pout OR pouting OR ray OR ribbonfish OR rigg OR rockfish OR rosefish
OR sablefish OR sailfish OR salmon OR salmo OR sandeel OR sardine OR sardina OR
sardinella OR scabbardfish OR scomber OR scophthalmus OR scorpionfish OR “sea
bass” OR seabass OR seabream OR “sea bream” OR seriola OR sheatfish OR “shi drum”
OR sild OR sillago OR skipjack OR smelt OR smooth hound OR “smooth-hound” OR
snapper OR snook OR sole OR solea OR sparidae OR sparus OR sparring OR spearfish
OR sprat OR sprattus OR “St Peter’s fish” OR stargazer OR stingray OR stizostedion OR
sturgeon OR “surgeon fish” OR trachurus OR swordfish OR tailor OR tench OR theragra
OR thunnus OR tilapia OR tinca OR threadfin OR triggerfish OR trisopterus OR trout
OR tubefish OR tuna OR turbot OR tusk OR walleye OR weever OR whitebait OR
whiting OR wrasse OR yellowtail meal OR meals OR food OR foods OR “buffet meal*”
OR “complex food” OR “frozen meal*” OR multi-ingredient OR “multi ingredient” OR
ready-to-eat OR RTE OR “ready meal” OR “ready prepared” OR “ready to eat” OR
“under vacuum” OR composite* OR convenience OR cured OR dip OR dips OR dish OR
dishes OR dressing* OR dumpling* OR fermented OR filling OR gravy OR macerated
OR marinad* OR marinate* OR mayonnaise OR pasta OR pizza OR pickled OR
preserved OR pudding* OR puree* OR salsa OR salsas OR salted OR sandwich* OR
sashimi OR ceviche OR sauce* OR smoked OR snack OR snacks OR soup OR soups OR
stew* OR surimi OR sushi OR topping* OR chowder)
NOT (TS= (“in vitro” OR “in-vitro” OR “challenge study” OR “essential oil*” OR
attribution OR biofilm* OR “plant extract” OR “extracts” OR feed OR livestock OR
sanitiser OR sanitizer OR spiked OR “feed supplement*”))

AND LD=(2020-01-01/2023-09-30)

AND DT= (“ARTICLE” OR “UNDEFINED”)

AND LA= (“ENGLISH” OR “SPANISH” OR “FRENCH” OR “PORTUGUESE” OR
“UNDEFINED”)

i. Year of publication

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2.1.3. PubMed

("microbial quality" [tiab] OR "microbial safety" [tiab] OR "microbiological quality" [tiab] OR "microbiological safety" [tiab] OR analyses [tiab] OR analysis [tiab] OR concentration [tiab] OR contamination [tiab] OR count* [tiab] OR detection [tiab] OR enumeration [tiab] OR incidence [tiab] OR investigation [tiab] OR occurrence [tiab] OR presence [tiab] OR prevalence [tiab] OR sampling [tiab] OR survey* [tiab] OR abundance [tiab] OR intensity [tiab])

AND

(Anisakidae [tiab] OR anisakid* [tiab] OR Anisakis [tiab] OR Pseudoterranova [tiab] OR Contracaecum [tiab] OR {A. simplex} [tiab] OR {A. pegreffii} [tiab] OR {A. berlandi} [tiab] OR {A. typica} [tiab] OR {A. ziphidarum} [tiab] OR {A. physeteris} [tiab] OR {A. brevispiculata} [tiab] OR {A. paggiae} [tiab] OR {A. nascettii} [tiab] OR {P. krabbei} [tiab] OR {P. decipiens} [tiab] OR {P. bulbosa} [tiab] OR {P. azarasi} [tiab] OR {P. cattani} [tiab] OR {C. osculatum} [tiab] OR {C. radiatum} [tiab] OR {C. mirounga} [tiab] OR {C. ogmorhini} [tiab] OR {C. margolisi} [tiab] OR Phocanema [tiab] OR {Ph. decipiens} [tiab] OR {Ph. azarasi} [tiab] OR {Ph. cattani} [tiab] OR {Ph. krabbei} [tiab] OR {Ph. bulbosa} [tiab])

AND

(seafood[tiab] OR seafoods[tiab] OR "sea food"[tiab] OR "sea foods"[tiab] OR crustacean*[tiab] OR shellfish[tiab] OR bivalve*[tiab] OR mollusc*[tiab] OR mollusk*[tiab] OR fish*[tiab] OR finfish*[tiab] OR "fishery product*" [tiab] OR "marine gasteropod*" [tiab] OR cephalopod[tiab] OR cephalopods[tiab] OR crustacean[tiab] OR crustaceans[tiab] OR echinoderm[tiab] OR echinoderms[tiab] OR "sea urchin"[tiab] OR "sea urchins"[tiab] OR holoturid*[tiab] OR tunicate[tiab] OR tunicates[tiab] OR urchin*[tiab] OR crab*[tiab] OR prawn*[tiab] OR shrimp*[tiab] OR lobster*[tiab] OR "crayfish"[tiab] OR crabfish[tiab] OR crawfish[tiab] OR langoustine[tiab] OR scampi[tiab] OR "clam"[tiab] OR "clams"[tiab] OR "carpet shell*" [tiab] OR scallop*[tiab] OR Pecten[tiab] OR oyster*[tiab] OR cockle[tiab] OR cockles[tiab] OR mussel[tiab] OR mussels[tiab] OR mytilus[tiab] OR "Pen shell*" [tiab] OR snail*[tiab] OR abalone*[tiab] OR Nassarius[tiab] OR "whelk*" [tiab] OR Bolinus[tiab] OR "murex"[tiab] OR ormer[tiab] OR Haliotis[tiab] OR "true limpet*" [tiab] OR Patella[tiab] OR Cellana[tiab] OR Buccinum[tiab] OR Concholepas[tiab] OR conch*[tiab] OR winkle*[tiab] OR periwinkle*[tiab] OR octopus[tiab] OR squid*[tiab] OR cuttlefish[tiab] OR nautilus*[tiab] OR Todarodes[tiab] OR Loligo[tiab] OR Sepia[tiab] OR Paracentrotus[tiab] OR Strongylocentrotus[tiab] OR "Echinus esculentus"[tiab] OR "sea cucumber*" [tiab] OR "cukes"[tiab] OR piure*[tiab] OR pyura[tiab] OR "sea violet*" [tiab] OR "sea tulip*" [tiab] OR "sea peach*" [tiab] OR "sea pineapple*" [tiab] OR "ice floe"[tiab] OR "sea squirt*" [tiab] OR gravad[tiab] OR graved[tiab] OR "gravad lax"[tiab] OR gravlax[tiab] OR sushi[tiab] OR sashimi[tiab] OR surimi[tiab] OR

ceviche[tiab] OR caviar[tiab] OR albacore[tiab] OR amberjack[tiab] OR anchovy[tiab] OR anchovies[tiab] OR angler[tiab] OR anglerfish*[tiab] OR anguilla[tiab] OR argentine[tiab] OR Argyrosomus[tiab] OR bacha[tiab] OR barbel[tiab] OR barracuda[tiab] OR basa[tiab] OR bass[tiab] OR beluga[tiab] OR bib[tiab] OR bigeye[tiab] OR blackfish[tiab] OR bleak[tiab] OR blenny[tiab] OR bluefish[tiab] OR "blue runner"[tiab] OR "blue shark"[tiab] OR bonito[tiab] OR branzino[tiab] OR bream[tiab] OR brill[tiab] OR burbot[tiab] OR butterfish[tiab] OR Capellin[tiab] OR carp[tiab] OR catfish[tiab] OR catshark[tiab] OR "Chelon auratus"OR chub[tiab] OR "clupea harengus"[tiab] OR cod[tiab] OR comber[tiab] OR conger[tiab] OR corb[tiab] OR cutlassfish[tiab] OR cyclopterus[tiab] OR Cyprinus[tiab] OR cyprinidae[tiab] OR dab[tiab] OR "danubian wels"[tiab] OR dentex[tiab] OR dicentrarchus[tiab] OR dogfish[tiab] OR eel[tiab] OR emperor[tiab] OR engraulis[tiab] OR flathead[tiab] OR flounder[tiab] OR "flying fish"[tiab] OR forkbeard[tiab] OR gadus[tiab] OR garfish[tiab] OR garrick[tiab] OR goby[tiab] OR goldline[tiab] OR grouper[tiab] OR guitarfish[tiab] OR gunard[tiab] OR haddock[tiab] OR hake[tiab] OR halibut[tiab] OR hammerhead[tiab] OR herring[tiab] OR hippoglossus[tiab] OR hoki[tiab] OR huss[tiab] OR icefish[tiab] OR "John dory"[tiab] OR "Katsuwonus pelamis"OR labrus[tiab] OR lamprey[tiab] OR lanternfish[tiab] OR leerfish[tiab] OR ling[tiab] OR "little tunny"[tiab] OR "Liza aurata"OR lophius[tiab] OR lumpfish[tiab] OR lythe[tiab] OR mackerel[tiab] OR "mahi mahi"[tiab] OR "mallotus villosus"[tiab] OR marlin[tiab] OR meagre[tiab] OR megrim[tiab] OR melva[tiab] OR merluccius[tiab] OR Micromesistius[tiab] OR monkfish[tiab] OR moonfish[tiab] OR mugil[tiab] OR mullet[tiab] OR "mullus barbatus"[tiab] OR needlefish[tiab] OR Oncorhynchus[tiab] OR oreo[tiab] OR osmeridae[tiab] OR pacu[tiab] OR pandoras[tiab] OR panga[tiab] OR pangasius[tiab] OR parrotfish[tiab] OR "parrot fish"[tiab] OR perch[tiab] OR picarel[tiab] OR pike[tiab] OR pikeperch[tiab] OR pilchard[tiab] OR pilotfish[tiab] OR "pilot fish"[tiab] OR platichthys[tiab] OR plaice[tiab] OR pleuronectes[tiab] OR pollan[tiab] OR Pollack[tiab] OR Pollock[tiab] OR ponyfish[tiab] OR porbeagle[tiab] OR pout[tiab] OR pouting[tiab] OR ray[tiab] OR ribbonfish[tiab] OR rigg[tiab] OR rockfish[tiab] OR rosefish[tiab] OR sablefish[tiab] OR sailfish[tiab] OR salmon[tiab] OR salmo[tiab] OR sandeel[tiab] OR sardine[tiab] OR sardina[tiab] OR sardinella[tiab] OR scabbardfish[tiab] OR scomber[tiab] OR scophthalmus[tiab] OR scorpionfish[tiab] OR "sea bass"OR seabass[tiab] OR seabream[tiab] OR "sea bream"[tiab] OR seriola[tiab] OR sheatfish[tiab] OR "shi drum"[tiab] OR sild[tiab] OR sillago[tiab] OR skipjack[tiab] OR smelt[tiab] OR smooth hound[tiab] OR "smooth-hound"[tiab] OR snapper[tiab] OR snook[tiab] OR sole[tiab] OR solea[tiab] OR sparidae[tiab] OR sparus[tiab] OR sparring[tiab] OR spearfish[tiab] OR sprat[tiab] OR sprattus[tiab] OR "St Peter's fish"[tiab] OR stargazer[tiab] OR stingray[tiab] OR stizostedion[tiab] OR sturgeon[tiab] OR "surgeon fish"[tiab] OR trachurus[tiab] OR swordfish[tiab] OR tailor[tiab] OR tench[tiab] OR theragra[tiab] OR thunnus[tiab] OR tilapia[tiab] OR tinca[tiab] OR threadfin[tiab] OR triggerfish[tiab] OR trisopterus[tiab] OR trout[tiab] OR tubefish[tiab] OR tuna[tiab] OR turbot[tiab] OR tusk[tiab] OR walleye[tiab] OR weever[tiab] OR whitebait[tiab] OR whiting[tiab] OR wrasse[tiab] OR yellowtail[tiab] OR meal[tiab] OR

meals[tiab] OR food[tiab] OR foods[tiab] OR "buffet meal*[tiab] OR "complex food"[tiab] OR "frozen meal*[tiab] OR multi-ingredient[tiab] OR "multi ingredient"[tiab] OR ready-to-eat[tiab] OR RTE[tiab] OR "ready meal"[tiab] OR "ready prepared"[tiab] OR "ready to eat"[tiab] OR "under vacuum"[tiab] OR composite*[tiab] OR convenience[tiab] OR cured[tiab] OR dip[tiab] OR dips[tiab] OR dish[tiab] OR dishes[tiab] OR dressing*[tiab] OR dumpling*[tiab] OR fermented[tiab] OR filling[tiab] OR gravy[tiab] OR macerated[tiab] OR marinad*[tiab] OR marinate*[tiab] OR mayonnaise[tiab] OR pasta[tiab] OR pizza[tiab] OR pickled[tiab] OR preserved[tiab] OR pudding*[tiab] OR puree*[tiab] OR salsa[tiab] OR salsas[tiab] OR salted[tiab] OR sandwich*[tiab] OR sashimi[tiab] OR ceviche[tiab] OR sauce*[tiab] OR smoked[tiab] OR snack[tiab] OR snacks[tiab] OR soup[tiab] OR soups[tiab] OR stew*[tiab] OR surimi[tiab] OR sushi[tiab] OR topping*[tiab] OR chowder [tiab])

NOT ("in vitro"[tiab] OR "in-vitro"[tiab] OR "challenge study"[tiab] OR "essential oil*[tiab] OR attribution[tiab] OR biofilm*[tiab] OR "plant extract"[tiab] OR "extracts"[tiab] OR feed[tiab] OR livestock[tiab] OR sanitiser[tiab] OR sanitizer[tiab] OR spiked[tiab] OR "feed supplement*[tiab])

AND (2020/01/01:2023/09/30[edat])

AND (2020/01/01:2023/09/30[pdat])

AND (english[la] OR spanish[la] OR french[la] OR portuguese[la] OR undetermined[la])

i. Type of publication (primary research articles)

Filter by document types 'Article' and "Undefined"

Save results as Anisakids2020-2023_PubMed

2.1.4 SCielo

These search strings are partitioned.

#string 1

((("microbial quality") OR ("microbial safety") OR ("microbiological quality") OR ("microbiological safety") OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey*) OR (abundance) OR (intensity)))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum)

OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((seafood) OR (seafoods) OR ("sea food") OR ("sea foods") OR (crustacean*) OR (shellfish) OR (bivalve*) OR (mollusc*) OR (mollusk*) OR (fish*) OR (finfish*) OR ("fishery product*") OR ("marine gasteropod*") OR (cephalopod) OR (cephalopods) OR (crustacean) OR (crustaceans) OR (echinoderm) OR (echinoderms) OR ("sea urchin") OR ("sea urchins") OR (holoturid*) OR (tunicate) OR (tunicates) OR (urchin*) OR (crab*) OR (prawn*) OR (shrimp*) OR (lobster*) OR ("crayfish") OR (crabfish) OR (crawfish) OR (langoustine) OR (scampi) OR ("clam") OR ("clams") OR ("carpet shell*") OR (scallop*) OR (Pecten) OR (oyster*) OR (cockle) OR (cockles) OR (mussel) OR (mussels) OR (mytilus) OR ("Pen shell*") OR (snail*) OR (abalone*) OR (Nassarius) OR ("whelk*") OR (Bolinus) OR ("murex") OR (ormer) OR (Haliotis) OR ("true limpet*") OR (Patella) OR (Cellana) OR (Buccinum) OR (Concholepas) OR (conch*) OR (winkle*))

AND NOT

((("in vitro") OR ("in-vitro") OR ("challenge study") OR ("essential oil*") OR (attribution) OR (biofilm*) OR ("plant extract") OR ("extracts") OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR ("feed supplement*"))

#string 2

((("microbial quality") OR ("microbial safety") OR ("microbiological quality") OR ("microbiological safety") OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey*) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi)

OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei)
OR (Ph. bulbosa))

AND

((periwinkle*) OR (octopus) OR (squid*) OR (cuttlefish) OR (nautilus*) OR (Todarodes)
OR (Loligo) OR (Sepia) OR (Paracentrotus) OR (Strongylocentrotus) OR (“Echinus
esculentus”) OR (“sea cucumber*”) OR (“cukes”) OR (piure*) OR (pyura) OR (“sea
violet*”) OR (“sea tulip*”) OR (“sea peach*”) OR (“sea pineapple*”) OR (“ice floe”)
OR (“sea squirt*”) OR (gravad) OR (graved) OR ("gravad lax") OR (gravlax) OR (sushi)
OR (sashimi) OR (surimi) OR (ceviche) OR (caviar) OR (albacore) OR (amberjack) OR
(anchovy) OR (anchovies) OR (angler) OR (anglerfish*) OR (anguilla) OR (argentine)
OR (Argyrosomus) OR (bacha) OR (barbel) OR (barracuda) OR (basa) OR (bass) OR
(beluga) OR (bib) OR (bigeye) OR (blackfish) OR (bleak) OR (blenny) OR (bluefish)
OR (“blue runner”) OR (“blue shark”) OR (bonito) OR (branzino) OR (bream) OR (brill)
OR (burbot) OR (butterfish) OR (Capellin) OR (carp) OR (catfish) OR (catshark) OR
 (“Chelon auratus”) OR (chub) OR (“clupea harengus”) OR (cod) OR (comber) OR
(conger) OR (corb) OR (cutlassfish) OR (cyclopterus) OR (Cyprinus) OR (cyprinidae)
OR (dab) OR (“danubian wels”) OR (dentex) OR (dicentrarchus) OR (dogfish) OR (eel)
OR (emperor) OR (engraulis) OR (flathead) OR (flounder) OR (“flying fish”) OR
(forkbeard) OR (gadus) OR (garfish) OR (garrick) OR (goby) OR (goldline) OR
(grouper) OR (guitarfish) OR (gunard) OR (haddock) OR (hake) OR (halibut) OR
(hammerhead) OR (herring) OR (hippoglossus) OR (hoki) OR (huss) OR (icefish) OR
 (“John dory”) OR (“Katsuwonus pelamis”) OR (labrus) OR (lamprey) OR (lanternfish)
OR (leerfish) OR (ling) OR (“little tunny”) OR (“Liza aurata”) OR (lophius) OR
(lumpfish) OR (lythe) OR (mackerel) OR (“mahi mahi”) OR (“mallotus villosus”) OR
(marlin) OR (meagre) OR (megrim))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution)
OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR
(sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

#string 3

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR
 (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR
(contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR
(investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR
(survey*) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((melva) OR (merluccius) OR (Micromesistius) OR (monkfish) OR (moonfish) OR (mugil) OR (mullet) OR (“mullus barbatus”) OR (needlefish) OR (Oncorhynchus) OR (oreo) OR (osmeridae) OR (pacu) OR (pandoras) OR (panga) OR (pangasius) OR (parrotfish) OR (“parrot fish”) OR (perch) OR (picarel) OR (pike) OR (pikeperch) OR (pilchard) OR (pilotfish) OR (“pilot fish”) OR (platichthys) OR (plaice) OR (pleuronectes) OR (pollan) OR (Pollack) OR (Pollock) OR (ponyfish) OR (porbeagle) OR (pout) OR (pouting) OR (ray) OR (ribbonfish) OR (rigg) OR (rockfish) OR (rosefish) OR (sablefish) OR (sailfish) OR (salmon) OR (salmo) OR (sandeel) OR (sardine) OR (sardina) OR (sardinella) OR (scabbardfish) OR (scomber) OR (scophthalmus) OR (scorpionfish) OR (“sea bass”) OR (seabass) OR (seabream) OR (“sea bream”) OR (seriola) OR (sheatfish) OR (“shi drum”) OR (sild) OR (sillago) OR (skipjack) OR (smelt) OR (smooth hound) OR (“smooth-hound”) OR (snapper) OR (snook) OR (sole) OR (solea) OR (sparidae) OR (sparus) OR (sparling) OR (spearfish) OR (sprat) OR (sprattus) OR (“St Peter’s fish”) OR (stargazer) OR (stingray) OR (stizostedion) OR (sturgeon) OR (“surgeon fish”) OR (trachurus) OR (swordfish) OR (tailor) OR (tench) OR (theragra) OR (thunnus) OR (tilapia) OR (tinca) OR (threadfin) OR (triggerfish) OR (trisopterus) OR (trout) OR (tubefish) OR (tuna) OR (turbot) OR (tusk) OR (walleye) OR (weever) OR (whitebait) OR (whiting) OR (wrasse) OR (yellowtail))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*))

#string 4

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey*) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((meal) OR (meals) OR (food) OR (foods) OR (“buffet meal*”) OR (“complex food”) OR (“frozen meal*”) OR (multi-ingredient) OR (“multi ingredient”) OR (ready-to-eat) OR (RTE) OR (“ready meal”) OR (“ready prepared”) OR (“ready to eat”) OR (“under vacuum”) OR (composite*) OR (convenience) OR (cured) OR (dip) OR (dips) OR (dish) OR (dishes) OR (dressing*) OR (dumpling*) OR (fermented) OR (filling) OR (gravy) OR (macerated) OR (marinad*) OR (marinate*) OR (mayonnaise) OR (pasta) OR (pizza) OR (pickled) OR (preserved) OR (pudding*) OR (puree*) OR (salsa) OR (salsas) OR (salted) OR (sandwich*) OR (sashimi) OR (ceviche) OR (sauce*) OR (smoked) OR (snack) OR (snacks) OR (soup) OR (soups) OR (stew*) OR (surimi) OR (sushi) OR (topping*) OR (chowder))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

i. Type of publication (primary research articles)

Filter by document types ‘Article’ and “Undefined”

ii. Language (English, Spanish, French, Portuguese, undefined)

Filter by languages ‘English’, ‘Spanish’, ‘French’, ‘Portuguese’ and “Undefined”

iii. Year of publication (not date of database insertion)

Filter by ‘year’ (SciELO only filters by year of publication)

Save results as Anisakids2020-2023_Scielo

2.2. Search #2

The objective is to recover papers published on Anisakids in fishery in any country between 01-01-2010 and 31-12-2019

Primary studies or reviews, and in the 4 languages.

2.2.1. SCOPUS

(TITLE-ABS-KEY("microbial quality") OR TITLE-ABS-KEY("microbial safety") OR TITLE-ABS-KEY("microbiological quality") OR TITLE-ABS-KEY("microbiological safety") OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(concentration) OR TITLE-ABS-KEY(contamination) OR TITLE-ABS-KEY(count*) OR TITLE-ABS-KEY(detection) OR TITLE-ABS-KEY(enumeration) OR TITLE-ABS-KEY(incidence) OR TITLE-ABS-KEY(investigation) OR TITLE-ABS-KEY(occurrence) OR TITLE-ABS-KEY(presence) OR TITLE-ABS-KEY(prevalence) OR TITLE-ABS-KEY(sampling) OR TITLE-ABS-KEY(survey*) OR TITLE-ABS-KEY(abundance) OR TITLE-ABS-KEY(intensity))

AND

(TITLE-ABS-KEY (Anisakidae) OR TITLE-ABS-KEY (anisakid*) OR TITLE-ABS-KEY (Anisakis) OR TITLE-ABS-KEY (Pseudoterranova) OR TITLE-ABS-KEY (Contracaecum) OR TITLE-ABS-KEY ({ A. simplex }) OR TITLE-ABS-KEY ({ A. pegreffii }) OR TITLE-ABS-KEY ({ A. berlandi }) OR TITLE-ABS-KEY ({ A. typica }) OR TITLE-ABS-KEY ({ A. ziphidarum }) OR TITLE-ABS-KEY ({ A. physeteris }) OR TITLE-ABS-KEY ({ A. brevispiculata }) OR TITLE-ABS-KEY ({ A. paggiae }) OR TITLE-ABS-KEY ({ A. nascettii }) OR TITLE-ABS-KEY ({ P. krabbei }) OR TITLE-ABS-KEY ({ P. decipiens }) OR TITLE-ABS-KEY ({ P. bulbosa }) OR TITLE-ABS-KEY ({ P. azarasi }) OR TITLE-ABS-KEY ({ P. cattani }) OR TITLE-ABS-KEY ({ C. osculatum }) OR TITLE-ABS-KEY ({ C. radiatum }) OR TITLE-ABS-KEY ({ C. mirounga }) OR TITLE-ABS-KEY ({ C. ogmorhini }) OR TITLE-ABS-KEY ({ C. margolisi }) OR TITLE-ABS-KEY (Phocanema) OR TITLE-ABS-KEY ({ Ph. decipiens }) OR TITLE-ABS-KEY ({ Ph. azarasi }) OR TITLE-ABS-KEY ({ Ph. cattani }) OR TITLE-ABS-KEY ({ Ph. krabbei }) OR TITLE-ABS-KEY ({ Ph. bulbosa })

AND

(TITLE-ABS-KEY (seafood) OR TITLE-ABS-KEY (seafoods) OR TITLE-ABS-KEY("sea food") OR TITLE-ABS-KEY("sea foods") OR TITLE-ABS-KEY(crustacean*) OR TITLE-ABS-KEY(shellfish) OR TITLE-ABS-KEY(bivalve*) OR TITLE-ABS-KEY(mollusc*) OR TITLE-ABS-KEY(mollusk*) OR TITLE-ABS-KEY(fish*) OR TITLE-ABS-KEY(finfish*) OR TITLE-ABS-KEY("fishery product*") OR TITLE-ABS-KEY("marine gasteropod*") OR TITLE-ABS-KEY(cephalopod) OR TITLE-

ABS-KEY(cephalopods) OR TITLE-ABS-KEY(crustacean) OR TITLE-ABS-KEY(crustaceans) OR TITLE-ABS-KEY(echinoderm) OR TITLE-ABS-KEY(echinoderms) OR TITLE-ABS-KEY(“sea urchin”) OR TITLE-ABS-KEY(“sea urchins”) OR TITLE-ABS-KEY(holoturid*) OR TITLE-ABS-KEY(tunicate) OR TITLE-ABS-KEY(tunicates) OR TITLE-ABS-KEY(urchin*) OR TITLE-ABS-KEY(crab*) OR TITLE-ABS-KEY(prawn*) OR TITLE-ABS-KEY(shrimp*) OR TITLE-ABS-KEY(lobster*) OR TITLE-ABS-KEY(“crayfish”) OR TITLE-ABS-KEY(crabfish) OR TITLE-ABS-KEY(crawfish) OR TITLE-ABS-KEY(langoustine) OR TITLE-ABS-KEY(scampi) OR TITLE-ABS-KEY(“clam”) OR TITLE-ABS-KEY(“clams”) OR TITLE-ABS-KEY(“carpet shell*”) OR TITLE-ABS-KEY(scallop*) OR TITLE-ABS-KEY(Pecten) OR TITLE-ABS-KEY(oyster*) OR TITLE-ABS-KEY(cockle) OR TITLE-ABS-KEY(cockles) OR TITLE-ABS-KEY(mussel) OR TITLE-ABS-KEY(mussels) OR TITLE-ABS-KEY(mytilus) OR TITLE-ABS-KEY(“Pen shell*”) OR TITLE-ABS-KEY(snail*) OR TITLE-ABS-KEY(abalone*) OR TITLE-ABS-KEY(Nassarius) OR TITLE-ABS-KEY(“whelk*”) OR TITLE-ABS-KEY(Bolinus) OR TITLE-ABS-KEY(“murex”) OR TITLE-ABS-KEY(mer) OR TITLE-ABS-KEY(Haliotis) OR TITLE-ABS-KEY(“true limpet*”) OR TITLE-ABS-KEY(Patella) OR TITLE-ABS-KEY(Cellana) OR TITLE-ABS-KEY(Buccinum) OR TITLE-ABS-KEY(Concholepas) OR TITLE-ABS-KEY(conch*) OR TITLE-ABS-KEY(winkle*) OR TITLE-ABS-KEY(periwinkle*) OR TITLE-ABS-KEY(octopus) OR TITLE-ABS-KEY(squid*) OR TITLE-ABS-KEY(cuttlefish) OR TITLE-ABS-KEY(nautilus*) OR TITLE-ABS-KEY(Todarodes) OR TITLE-ABS-KEY(Loligo) OR TITLE-ABS-KEY(Sepia) OR TITLE-ABS-KEY(Paracentrotus) OR TITLE-ABS-KEY(Strongylocentrotus) OR TITLE-ABS-KEY(“Echinus esculentus”) OR TITLE-ABS-KEY(“sea cucumber*”) OR TITLE-ABS-KEY(“cukes”) OR TITLE-ABS-KEY(piure*) OR TITLE-ABS-KEY(pyura) OR TITLE-ABS-KEY(“sea violet*”) OR TITLE-ABS-KEY(“sea tulip*”) OR TITLE-ABS-KEY(“sea peach*”) OR TITLE-ABS-KEY(“sea pineapple*”) OR TITLE-ABS-KEY(“ice floe”) OR TITLE-ABS-KEY(“sea squirt*”) OR TITLE-ABS-KEY(gravad) OR TITLE-ABS-KEY(graved) OR TITLE-ABS-KEY("gravad lax") OR TITLE-ABS-KEY(gravlax) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(sashimi) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(caviar) OR TITLE-ABS-KEY(albacore) OR TITLE-ABS-KEY(amberjack) OR TITLE-ABS-KEY(anchovy) OR TITLE-ABS-KEY(anchovies) OR TITLE-ABS-KEY(angler) OR TITLE-ABS-KEY(anglerfish*) OR TITLE-ABS-KEY(anguilla) OR TITLE-ABS-KEY(argentine) OR TITLE-ABS-KEY(Argyrosomus) OR TITLE-ABS-KEY(bacha) OR TITLE-ABS-KEY(barbel) OR TITLE-ABS-KEY(barracuda) OR TITLE-ABS-KEY(basa) OR TITLE-ABS-KEY(bass) OR TITLE-ABS-KEY(beluga) OR TITLE-ABS-KEY(bib) OR TITLE-ABS-KEY(bigeye) OR TITLE-ABS-KEY(blackfish) OR TITLE-ABS-KEY(bleak) OR TITLE-ABS-KEY(blenny) OR TITLE-ABS-KEY(bluefish) OR TITLE-ABS-KEY(“blue runner”) OR TITLE-ABS-KEY(“blue shark”) OR TITLE-ABS-KEY(bonito) OR TITLE-ABS-KEY(branzino) OR TITLE-ABS-KEY(bream) OR TITLE-ABS-KEY(brill) OR TITLE-ABS-KEY(burbot) OR TITLE-ABS-KEY(

butterfish) OR TITLE-ABS-KEY(Capellin) OR TITLE-ABS-KEY(carp) OR TITLE-ABS-KEY(catfish) OR TITLE-ABS-KEY(catshark) OR TITLE-ABS-KEY(“Chelon auratus”) OR TITLE-ABS-KEY(chub) OR TITLE-ABS-KEY(“clupea harengus”) OR TITLE-ABS-KEY(cod) OR TITLE-ABS-KEY(comber) OR TITLE-ABS-KEY(conger) OR TITLE-ABS-KEY(corb) OR TITLE-ABS-KEY(cutlassfish) OR TITLE-ABS-KEY(cyclopterus) OR TITLE-ABS-KEY(Cyprinus) OR TITLE-ABS-KEY(cyprinidae) OR TITLE-ABS-KEY(dab) OR TITLE-ABS-KEY(“danubian wels”) OR TITLE-ABS-KEY(dentex) OR TITLE-ABS-KEY(dicentrarchus) OR TITLE-ABS-KEY(dogfish) OR TITLE-ABS-KEY(eel) OR TITLE-ABS-KEY(emperor) OR TITLE-ABS-KEY(engraulis) OR TITLE-ABS-KEY(flathead) OR TITLE-ABS-KEY(flounder) OR TITLE-ABS-KEY(“flying fish”) OR TITLE-ABS-KEY(forkbeard) OR TITLE-ABS-KEY(gadus) OR TITLE-ABS-KEY(garfish) OR TITLE-ABS-KEY(garrick) OR TITLE-ABS-KEY(goby) OR TITLE-ABS-KEY(goldline) OR TITLE-ABS-KEY(grouper) OR TITLE-ABS-KEY(guitarfish) OR TITLE-ABS-KEY(gunard) OR TITLE-ABS-KEY(haddock) OR TITLE-ABS-KEY(hake) OR TITLE-ABS-KEY(halibut) OR TITLE-ABS-KEY(hammerhead) OR TITLE-ABS-KEY(herring) OR TITLE-ABS-KEY(hippoglossus) OR TITLE-ABS-KEY(hoki) OR TITLE-ABS-KEY(huss) OR TITLE-ABS-KEY(icefish) OR TITLE-ABS-KEY(“John dory”) OR TITLE-ABS-KEY(“Katsuwonus pelamis”) OR TITLE-ABS-KEY(labrus) OR TITLE-ABS-KEY(lamprey) OR TITLE-ABS-KEY(lanternfish) OR TITLE-ABS-KEY(leerfish) OR TITLE-ABS-KEY(ling) OR TITLE-ABS-KEY(“little tunny”) OR TITLE-ABS-KEY(“Liza aurata”) OR TITLE-ABS-KEY(lophius) OR TITLE-ABS-KEY(lumpfish) OR TITLE-ABS-KEY(lythe) OR TITLE-ABS-KEY(mackerel) OR TITLE-ABS-KEY(“mahi mahi”) OR TITLE-ABS-KEY(“mallotus villosus”) OR TITLE-ABS-KEY(marlin) OR TITLE-ABS-KEY(meagre) OR TITLE-ABS-KEY(megrim) OR TITLE-ABS-KEY(melva) OR TITLE-ABS-KEY(merluccius) OR TITLE-ABS-KEY(Micromesistius) OR TITLE-ABS-KEY(monkfish) OR TITLE-ABS-KEY(moonfish) OR TITLE-ABS-KEY(mugil) OR TITLE-ABS-KEY(mullet) OR TITLE-ABS-KEY(“mullus barbatus”) OR TITLE-ABS-KEY(needlefish) OR TITLE-ABS-KEY(Oncorhynchus) OR TITLE-ABS-KEY(oreo) OR TITLE-ABS-KEY(osmeridae) OR TITLE-ABS-KEY(pacu) OR TITLE-ABS-KEY(pandoras) OR TITLE-ABS-KEY(panga) OR TITLE-ABS-KEY(pangasius) OR TITLE-ABS-KEY(parrotfish) OR TITLE-ABS-KEY(“parrot fish”) OR TITLE-ABS-KEY(perch) OR TITLE-ABS-KEY(picarel) OR TITLE-ABS-KEY(pike) OR TITLE-ABS-KEY(pikeperch) OR TITLE-ABS-KEY(pilchard) OR TITLE-ABS-KEY(pilotfish) OR TITLE-ABS-KEY(“pilot fish”) OR TITLE-ABS-KEY(platichthys) OR TITLE-ABS-KEY(plaice) OR TITLE-ABS-KEY(pleuronectes) OR TITLE-ABS-KEY(pollan) OR TITLE-ABS-KEY(Pollack) OR TITLE-ABS-KEY(Pollock) OR TITLE-ABS-KEY(ponyfish) OR TITLE-ABS-KEY(porbeagle) OR TITLE-ABS-KEY(pout) OR TITLE-ABS-KEY(pouting) OR TITLE-ABS-KEY(ray) OR TITLE-ABS-KEY(ribbonfish) OR TITLE-ABS-KEY(rigg) OR TITLE-ABS-KEY(rockfish) OR TITLE-ABS-KEY(rosefish) OR TITLE-ABS-KEY(sablefish) OR TITLE-ABS-KEY(sailfish) OR TITLE-ABS-KEY(salmon) OR TITLE-ABS-KEY(salmo) OR TITLE-ABS-KEY(

sandeel) OR TITLE-ABS-KEY(sardine) OR TITLE-ABS-KEY(sardina) OR TITLE-ABS-KEY(sardinella) OR TITLE-ABS-KEY(scabbardfish) OR TITLE-ABS-KEY(scomber) OR TITLE-ABS-KEY(scophthalmus) OR TITLE-ABS-KEY(scorpionfish) OR TITLE-ABS-KEY(“sea bass”) OR TITLE-ABS-KEY(seabass) OR TITLE-ABS-KEY(seabream) OR TITLE-ABS-KEY(“sea bream”) OR TITLE-ABS-KEY(seriola) OR TITLE-ABS-KEY(sheatfish) OR TITLE-ABS-KEY(“shi drum”) OR TITLE-ABS-KEY(sild) OR TITLE-ABS-KEY(sillago) OR TITLE-ABS-KEY(skipjack) OR TITLE-ABS-KEY(smelt) OR TITLE-ABS-KEY(smooth hound) OR TITLE-ABS-KEY(“smooth-hound”) OR TITLE-ABS-KEY(snapper) OR TITLE-ABS-KEY(snook) OR TITLE-ABS-KEY(sole) OR TITLE-ABS-KEY(solea) OR TITLE-ABS-KEY(sparidae) OR TITLE-ABS-KEY(sparus) OR TITLE-ABS-KEY(sparling) OR TITLE-ABS-KEY(spearfish) OR TITLE-ABS-KEY(sprat) OR TITLE-ABS-KEY(sprattus) OR TITLE-ABS-KEY(“St Peter’s fish”) OR TITLE-ABS-KEY(stargazer) OR TITLE-ABS-KEY(stingray) OR TITLE-ABS-KEY(stizostedion) OR TITLE-ABS-KEY(sturgeon) OR TITLE-ABS-KEY(“surgeon fish”) OR TITLE-ABS-KEY(trachurus) OR TITLE-ABS-KEY(swordfish) OR TITLE-ABS-KEY(tailor) OR TITLE-ABS-KEY(tench) OR TITLE-ABS-KEY(theragra) OR TITLE-ABS-KEY(thunnus) OR TITLE-ABS-KEY(tilapia) OR TITLE-ABS-KEY(tinca) OR TITLE-ABS-KEY(threadfin) OR TITLE-ABS-KEY(triggerfish) OR TITLE-ABS-KEY(trisopterus) OR TITLE-ABS-KEY(trout) OR TITLE-ABS-KEY(tubefish) OR TITLE-ABS-KEY(tuna) OR TITLE-ABS-KEY(turbot) OR TITLE-ABS-KEY(tusk) OR TITLE-ABS-KEY(walleye) OR TITLE-ABS-KEY(weever) OR TITLE-ABS-KEY(whitebait) OR TITLE-ABS-KEY(whiting) OR TITLE-ABS-KEY(wrasse) OR TITLE-ABS-KEY(yellowtail) OR TITLE-ABS-KEY(meal) OR TITLE-ABS-KEY(meals) OR TITLE-ABS-KEY(food) OR TITLE-ABS-KEY(foods) OR TITLE-ABS-KEY(“buffet meal”) OR TITLE-ABS-KEY(“complex food”) OR TITLE-ABS-KEY(“frozen meal”) OR TITLE-ABS-KEY(multi-ingredient) OR TITLE-ABS-KEY(“multi ingredient”) OR TITLE-ABS-KEY(ready-to-eat) OR TITLE-ABS-KEY(RTE) OR TITLE-ABS-KEY(“ready meal”) OR TITLE-ABS-KEY(“ready prepared”) OR TITLE-ABS-KEY(“ready to eat”) OR TITLE-ABS-KEY(“under vacuum”) OR TITLE-ABS-KEY(composite*) OR TITLE-ABS-KEY(convenience) OR TITLE-ABS-KEY(cured) OR TITLE-ABS-KEY(dip) OR TITLE-ABS-KEY(dips) OR TITLE-ABS-KEY(dish) OR TITLE-ABS-KEY(dishes) OR TITLE-ABS-KEY(dressing*) OR TITLE-ABS-KEY(dumpling*) OR TITLE-ABS-KEY(fermented) OR TITLE-ABS-KEY(filling) OR TITLE-ABS-KEY(gravy) OR TITLE-ABS-KEY(macerated) OR TITLE-ABS-KEY(marinad*) OR TITLE-ABS-KEY(marinate*) OR TITLE-ABS-KEY(mayonnaise) OR TITLE-ABS-KEY(pasta) OR TITLE-ABS-KEY(pizza) OR TITLE-ABS-KEY(pickled) OR TITLE-ABS-KEY(preserved) OR TITLE-ABS-KEY(pudding*) OR TITLE-ABS-KEY(puree*) OR TITLE-ABS-KEY(salsa) OR TITLE-ABS-KEY(salsas) OR TITLE-ABS-KEY(salted) OR TITLE-ABS-KEY(sandwich*) OR TITLE-ABS-KEY(sashimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(sauce*) OR TITLE-ABS-KEY(smoked) OR TITLE-ABS-KEY(snack) OR TITLE-ABS-KEY(snacks) OR TITLE-ABS-KEY(soup) OR TITLE-ABS-KEY(soups) OR TITLE-ABS-KEY(

stew*) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(topping*) OR TITLE-ABS-KEY(chowder))

AND NOT (TITLE-ABS-KEY("in vitro") OR TITLE-ABS-KEY("in-vitro") OR TITLE-ABS-KEY("challenge study") OR TITLE-ABS-KEY("essential oil*") OR TITLE-ABS-KEY(attribution) OR TITLE-ABS-KEY(biofilm*) OR TITLE-ABS-KEY("plant extract") OR TITLE-ABS-KEY("extracts") OR TITLE-ABS-KEY(feed) OR TITLE-ABS-KEY(livestock) OR TITLE-ABS-KEY(sanitiser) OR TITLE-ABS-KEY(sanitizer) OR TITLE-ABS-KEY(spiked) OR TITLE-ABS-KEY("feed supplement*")))

AND ((LOAD-DATE AFT 20100101) AND (LOAD-DATE BEF 20191231))

AND (PUBYEAR AFT 2009)

Type of publication (primary research articles, reviews, undefined)

Filter by document types 'Article', 'Review' and "Undefined"

[or in the query string, add: AND (LIMIT-TO (DOCTYPE,"ar") OR LIMIT-TO (DOCTYPE,"re") OR LIMIT-TO (DOCTYPE,"Undefined"))]

Language (English, Spanish, French, Portuguese, undefined)

Filter by languages 'English', 'Spanish', 'French', 'Portuguese' and "Undefined"

[or in the query string, add: AND (LIMIT-TO (LANGUAGE,"English") OR LIMIT-TO (LANGUAGE,"French") OR LIMIT-TO (LANGUAGE,"Spanish") OR LIMIT-TO (LANGUAGE,"Portuguese") OR LIMIT-TO (LANGUAGE,"Undefined"))]

Save results as Anisakids2010-2020_Scopus

2.2.2. Web of Science

(TS=("microbial quality" OR "microbial safety" OR "microbiological quality" OR "microbiological safety" OR analyses OR analysis OR concentration OR contamination OR count* OR detection OR enumeration OR incidence OR investigation OR occurrence OR presence OR prevalence OR sampling OR survey* OR abundance OR intensity))

AND

(TS=(Anisakidae OR anisakid* OR Anisakis OR Pseudoterranova OR Contracaecum OR "A. simplex" OR "A. pegreffii" OR "A. berlandi" OR "A. typica" OR "A. ziphidarum" OR "A. physeteris" OR "A. brevispiculata" OR "A. paggiae" OR "A. nascettii" OR "P.

krabbei" OR "P. decipiens" OR "P. bulbosa" OR "P. azarasi" OR "P. cattani" OR "C. osculatum" OR "C. radiatum" OR "C. mirounga" OR "C. ogmorhini" OR "C. margolisi" OR Phocanema OR "Ph. decipiens" OR "Ph. azarasi" OR "Ph. cattani" OR "Ph. krabbei" OR "Ph. bulbosa"))

)

AND

TS=(seafood OR seafoods OR "sea food" OR "sea foods" OR crustacean* OR shellfish OR bivalve* OR mollusc* OR mollusk* OR fish* OR finfish* OR "fishery product*" OR "marine gasteropod*" OR cephalopod OR cephalopods OR crustacean OR crustaceans OR echinoderm OR echinoderms OR "sea urchin" OR "sea urchins" OR holoturid* OR tunicate OR tunicates OR urchin* OR crab* OR prawn* OR shrimp* OR lobster* OR "crayfish" OR crabfish OR crawfish OR langoustine OR scampi OR "clam" OR "clams" OR "carpet shell*" OR scallop* OR Pecten OR oyster* OR cockle OR cockles OR mussel OR mussels OR mytilus OR "Pen shell*" OR snail* OR abalone* OR Nassarius OR "whelk*" OR Bolinus OR "murex" OR ormer OR Haliotis OR "true limpet*" OR Patella OR Cellana OR Buccinum OR Concholepas OR conch* OR winkle* OR periwinkle* OR octopus OR squid* OR cuttlefish OR nautilus* OR Todarodes OR Loligo OR Sepia OR Paracentrotus OR Strongylocentrotus OR "Echinus esculentus" OR "sea cucumber*" OR "cukes" OR piure* OR pyura OR "sea violet*" OR "sea tulip*" OR "sea peach*" OR "sea pineapple*" OR "ice floe" OR "sea squirt*" OR gravad OR graved OR "gravad lax" OR gravlax OR sushi OR sashimi OR surimi OR ceviche OR caviar OR albacore OR amberjack OR anchovy OR anchovies OR angler OR anglerfish* OR anguilla OR argentine OR Argyrosomus OR bacha OR barbel OR barracuda OR basa OR bass OR beluga OR bib OR bigeye OR blackfish OR bleak OR blenny OR bluefish OR "blue runner" OR "blue shark" OR bonito OR branzino OR bream OR brill OR burbot OR butterfish OR Capelin OR carp OR catfish OR catshark OR "Chelon auratus" OR chub OR "clupea harengus" OR cod OR comber OR conger OR corb OR cutlassfish OR cyclopterus OR Cyprinus OR cyprinidae OR dab OR "danubian wels" OR dentex OR dicentrarchus OR dogfish OR eel OR emperor OR engraulis OR flathead OR flounder OR "flying fish" OR forkbeard OR gadus OR garfish OR garrick OR goby OR goldline OR grouper OR guitarfish OR gunard OR haddock OR hake OR halibut OR hammerhead OR herring OR hippoglossus OR hoki OR huss OR icefish OR "John dory" OR "Katsuwonus pelamis" OR labrus OR lamprey OR lanternfish OR leerfish OR ling OR "little tunny" OR "Liza aurata" OR lophius OR lumpfish OR lythe OR mackerel OR "mahi mahi" OR "mallotus villosus" OR marlin OR meagre OR megrim OR melva OR merluccius OR Micromesistius OR monkfish OR moonfish OR mugil OR mullet OR "mullus barbatus" OR needlefish OR Oncorhynchus OR oreo OR osmeridae OR pacu OR pandoras OR panga OR pangasius OR parrotfish OR "parrot fish" OR perch OR picarel OR pike OR pikeperch OR pilchard OR pilotfish OR "pilot fish" OR platichthys OR plaice OR pleuronectes OR pollan OR Pollack OR Pollock OR ponyfish OR porbeagle OR pout OR pouting OR ray OR ribbonfish OR rigg OR rockfish OR rosefish

OR sablefish OR sailfish OR salmon OR salmo OR sandeel OR sardine OR sardina OR sardinella OR scabbardfish OR scomber OR scophthalmus OR scorpionfish OR “sea bass” OR seabass OR seabream OR “sea bream” OR seriola OR sheatfish OR “shi drum” OR sild OR sillago OR skipjack OR smelt OR smooth hound OR “smooth-hound” OR snapper OR snook OR sole OR solea OR sparidae OR sparus OR sparring OR spearfish OR sprat OR sprattus OR “St Peter’s fish” OR stargazer OR stingray OR stizostedion OR sturgeon OR “surgeon fish” OR trachurus OR swordfish OR tailor OR tench OR theragra OR thunnus OR tilapia OR tinca OR threadfin OR triggerfish OR trisopterus OR trout OR tubefish OR tuna OR turbot OR tusk OR walleye OR weever OR whitebait OR whiting OR wrasse OR yellowtail meal OR meals OR food OR foods OR “buffet meal*” OR “complex food” OR “frozen meal*” OR multi-ingredient OR “multi ingredient” OR ready-to-eat OR RTE OR “ready meal” OR “ready prepared” OR “ready to eat” OR “under vacuum” OR composite* OR convenience OR cured OR dip OR dips OR dish OR dishes OR dressing* OR dumpling* OR fermented OR filling OR gravy OR macerated OR marinad* OR marinate* OR mayonnaise OR pasta OR pizza OR pickled OR preserved OR pudding* OR puree* OR salsa OR salsas OR salted OR sandwich* OR sashimi OR ceviche OR sauce* OR smoked OR snack OR snacks OR soup OR soups OR stew* OR surimi OR sushi OR topping* OR chowder)

NOT (TS= (“in vitro” OR “in-vitro” OR “challenge study” OR “essential oil*” OR attribution OR biofilm* OR “plant extract” OR “extracts” OR feed OR livestock OR sanitiser OR sanitizer OR spiked OR “feed supplement*”))

AND LD=(2010-01-01/2019-12-31)

AND DT= (“ARTICLE” OR “UNDEFINED” OR “REVIEW”)

AND LA= (“ENGLISH” OR “SPANISH” OR “FRENCH” OR “PORTUGUESE” OR “UNDEFINED”)

i. Year of publication

Filter by desired year of publication

Save results as Anisakids2010-2020_WoS
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2.2.3 PubMed

(“microbial quality” [tiab] OR “microbial safety” [tiab] OR “microbiological quality” [tiab] OR “microbiological safety” [tiab] OR analyses [tiab] OR analysis [tiab] OR concentration [tiab] OR contamination [tiab] OR count* [tiab] OR detection [tiab] OR enumeration [tiab] OR incidence [tiab] OR investigation [tiab] OR occurrence [tiab] OR

presence [tiab] OR prevalence [tiab] OR sampling [tiab] OR survey* [tiab] OR abundance [tiab] OR intensity [tiab])

AND

(Anisakidae [tiab] OR anisakid* [tiab] OR Anisakis [tiab] OR Pseudoterranova [tiab] OR Contracaecum [tiab] OR {A. simplex} [tiab] OR {A. pegreffii} [tiab] OR {A. berlandi} [tiab] OR {A. typica} [tiab] OR {A. ziphidarum} [tiab] OR {A. physeteris} [tiab] OR {A. brevispiculata} [tiab] OR {A. paggiae} [tiab] OR {A. nascettii} [tiab] OR {P. krabbei} [tiab] OR {P. decipiens} [tiab] OR {P. bulbosa} [tiab] OR {P. azarasi} [tiab] OR {P. cattani} [tiab] OR {C. osculatum} [tiab] OR {C. radiatum} [tiab] OR {C. mirounga} [tiab] OR {C. ogmorhini} [tiab] OR {C. margolisi} [tiab] OR Phocanema [tiab] OR {Ph. decipiens}[tiab] OR {Ph. azarasi}[tiab] OR {Ph. cattani}[tiab] OR {Ph. krabbei}[tiab] OR {Ph. bulbosa}[tiab])

AND

(seafood[tiab] OR seafoods[tiab] OR "sea food"[tiab] OR "sea foods"[tiab] OR crustacean*[tiab] OR shellfish[tiab] OR bivalve*[tiab] OR mollusc*[tiab] OR mollusk*[tiab] OR fish*[tiab] OR finfish*[tiab] OR "fishery product*" [tiab] OR "marine gasteropod*" [tiab] OR cephalopod[tiab] OR cephalopods[tiab] OR crustacean[tiab] OR crustaceans[tiab] OR echinoderm[tiab] OR echinoderms[tiab] OR "sea urchin"[tiab] OR "sea urchins"[tiab] OR holoturid*[tiab] OR tunicate[tiab] OR tunicates[tiab] OR urchin*[tiab] OR crab*[tiab] OR prawn*[tiab] OR shrimp*[tiab] OR lobster*[tiab] OR "crayfish"[tiab] OR crabfish[tiab] OR crawfish[tiab] OR langoustine[tiab] OR scampi[tiab] OR "clam"[tiab] OR "clams"[tiab] OR "carpet shell*" [tiab] OR scallop*[tiab] OR Pecten[tiab] OR oyster*[tiab] OR cockle[tiab] OR cockles[tiab] OR mussel[tiab] OR mussels[tiab] OR mytilus[tiab] OR "Pen shell*" [tiab] OR snail*[tiab] OR abalone*[tiab] OR Nassarius[tiab] OR "whelk*" [tiab] OR Bolinus[tiab] OR "murex"[tiab] OR ormer[tiab] OR Haliotis[tiab] OR "true limpet*" [tiab] OR Patella[tiab] OR Cellana[tiab] OR Buccinum[tiab] OR Concholepas[tiab] OR conch*[tiab] OR winkle*[tiab] OR periwinkle*[tiab] OR octopus[tiab] OR squid*[tiab] OR cuttlefish[tiab] OR nautilus*[tiab] OR Todarodes[tiab] OR Loligo[tiab] OR Sepia[tiab] OR Paracentrotus[tiab] OR Strongylocentrotus[tiab] OR "Echinus esculentus"[tiab] OR "sea cucumber*" [tiab] OR "cukes"[tiab] OR piure*[tiab] OR pyura[tiab] OR "sea violet*" [tiab] OR "sea tulip*" [tiab] OR "sea peach*" [tiab] OR "sea pineapple*" [tiab] OR "ice floe"[tiab] OR "sea squirt*" [tiab] OR gravad[tiab] OR graved[tiab] OR "gravad lax"[tiab] OR gravlax[tiab] OR sushi[tiab] OR sashimi[tiab] OR surimi[tiab] OR ceviche[tiab] OR caviar[tiab] OR albacore[tiab] OR amberjack[tiab] OR anchovy[tiab] OR anchovies[tiab] OR angler[tiab] OR anglerfish*[tiab] OR anguilla[tiab] OR argentine[tiab] OR Argyrosomus[tiab] OR bacha[tiab] OR barbel[tiab] OR barracuda[tiab] OR basa[tiab] OR bass[tiab] OR beluga[tiab] OR bib[tiab] OR bigeye[tiab] OR blackfish[tiab] OR bleak[tiab] OR blenny[tiab] OR bluefish[tiab] OR "blue runner"[tiab] OR "blue shark"[tiab] OR bonito[tiab] OR branzino[tiab] OR

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 carp[tiab] OR catfish[tiab] OR catshark[tiab] OR "Chelon auratus"OR chub[tiab] OR
 "clupea harengus"[tiab] OR cod[tiab] OR comber[tiab] OR conger[tiab] OR corb[tiab]
 OR cutlassfish[tiab] OR cyclopterus[tiab] OR Cyprinus[tiab] OR cyprinidae[tiab] OR
 dab[tiab] OR "danubian wels"[tiab] OR dentex[tiab] OR dicentrarchus[tiab] OR
 dogfish[tiab] OR eel[tiab] OR emperor[tiab] OR engraulis[tiab] OR flathead[tiab] OR
 flounder[tiab] OR "flying fish"[tiab] OR forkbeard[tiab] OR gadus[tiab] OR garfish[tiab]
 OR garrick[tiab] OR goby[tiab] OR goldline[tiab] OR grouper[tiab] OR guitarfish[tiab]
 OR gunard[tiab] OR haddock[tiab] OR hake[tiab] OR halibut[tiab] OR
 hammerhead[tiab] OR herring[tiab] OR hippoglossus[tiab] OR hoki[tiab] OR huss[tiab]
 OR icefish[tiab] OR "John dory"[tiab] OR "Katsuwonus pelamis"OR labrus[tiab] OR
 lamprey[tiab] OR lanternfish[tiab] OR leerfish[tiab] OR ling[tiab] OR "little tunny"[tiab]
 OR "Liza aurata"OR lophius[tiab] OR lumpfish[tiab] OR lythe[tiab] OR mackerel[tiab]
 OR "mahi mahi"[tiab] OR "mallotus villosus"[tiab] OR marlin[tiab] OR meagre[tiab] OR
 megrim[tiab] OR melva[tiab] OR merluccius[tiab] OR Micromesistius[tiab] OR
 monkfish[tiab] OR moonfish[tiab] OR mugil[tiab] OR mullet[tiab] OR "mullus
 barbatus"[tiab] OR needlefish[tiab] OR Oncorhynchus[tiab] OR oreo[tiab] OR
 osmeridae[tiab] OR pacu[tiab] OR pandoras[tiab] OR panga[tiab] OR pangasius[tiab] OR
 parrotfish[tiab] OR "parrot fish"[tiab] OR perch[tiab] OR picarel[tiab] OR pike[tiab] OR
 pikeperch[tiab] OR pilchard[tiab] OR pilotfish[tiab] OR "pilot fish"[tiab] OR
 platichthys[tiab] OR plaice[tiab] OR pleuronectes[tiab] OR pollan[tiab] OR Pollack[tiab]
 OR Pollock[tiab] OR ponyfish[tiab] OR porbeagle[tiab] OR pout[tiab] OR pouting[tiab]
 OR ray[tiab] OR ribbonfish[tiab] OR rigg[tiab] OR rockfish[tiab] OR rosefish[tiab] OR
 sablefish[tiab] OR sailfish[tiab] OR salmon[tiab] OR salmo[tiab] OR sandeel[tiab] OR
 sardine[tiab] OR sardina[tiab] OR sardinella[tiab] OR scabbardfish[tiab] OR
 scomber[tiab] OR scophthalmus[tiab] OR scorpionfish[tiab] OR "sea bass"OR
 seabass[tiab] OR seabream[tiab] OR "sea bream"[tiab] OR seriola[tiab] OR
 sheatfish[tiab] OR "shi drum"[tiab] OR sild[tiab] OR sillago[tiab] OR skipjack[tiab] OR
 smelt[tiab] OR smooth hound[tiab] OR "smooth-hound"[tiab] OR snapper[tiab] OR
 snook[tiab] OR sole[tiab] OR solea[tiab] OR sparidae[tiab] OR sparus[tiab] OR
 sparring[tiab] OR spearfish[tiab] OR sprat[tiab] OR sprattus[tiab] OR "St Peter's
 fish"[tiab] OR stargazer[tiab] OR stingray[tiab] OR stizostedion[tiab] OR sturgeon[tiab]
 OR "surgeon fish"[tiab] OR trachurus[tiab] OR swordfish[tiab] OR tailor[tiab] OR
 tench[tiab] OR theragra[tiab] OR thunnus[tiab] OR tilapia[tiab] OR tinca[tiab] OR
 threadfin[tiab] OR triggerfish[tiab] OR trisopterus[tiab] OR trout[tiab] OR tubefish[tiab]
 OR tuna[tiab] OR turbot[tiab] OR tusk[tiab] OR walleye[tiab] OR weever[tiab] OR
 whitebait[tiab] OR whiting[tiab] OR wrasse[tiab] OR yellowtail[tiab] OR meal[tiab] OR
 meals[tiab] OR food[tiab] OR foods[tiab] OR "buffet meal*" [tiab] OR "complex
 food"[tiab] OR "frozen meal*" [tiab] OR multi-ingredient[tiab] OR "multi
 ingredient"[tiab] OR ready-to-eat[tiab] OR RTE[tiab] OR "ready meal"[tiab] OR "ready
 prepared"[tiab] OR "ready to eat"[tiab] OR "under vacuum"[tiab] OR composite*[tiab]
 OR convenience[tiab] OR cured[tiab] OR dip[tiab] OR dips[tiab] OR dish[tiab] OR
 dishes[tiab] OR dressing*[tiab] OR dumpling*[tiab] OR fermented[tiab] OR filling[tiab]

OR gravy[tiab] OR macerated[tiab] OR marinad*[tiab] OR marinate*[tiab] OR mayonnaise[tiab] OR pasta[tiab] OR pizza[tiab] OR pickled[tiab] OR preserved[tiab] OR pudding*[tiab] OR puree*[tiab] OR salsa[tiab] OR salsas[tiab] OR salted[tiab] OR sandwich*[tiab] OR sashimi[tiab] OR ceviche[tiab] OR sauce*[tiab] OR smoked[tiab] OR snack[tiab] OR snacks[tiab] OR soup[tiab] OR soups[tiab] OR stew*[tiab] OR surimi[tiab] OR sushi[tiab] OR topping*[tiab] OR chowder [tiab])

NOT ("in vitro"[tiab] OR "in-vitro"[tiab] OR "challenge study"[tiab] OR "essential oil*" [tiab] OR attribution[tiab] OR biofilm*[tiab] OR "plant extract"[tiab] OR "extracts"[tiab] OR feed[tiab] OR livestock[tiab] OR sanitiser[tiab] OR sanitizer[tiab] OR spiked[tiab] OR "feed supplement*" [tiab])

AND (2010/01/01:2019/12/31[edat])

AND (2010/01/01:2019/12/31[pdat])

AND (english[la] OR spanish[la] OR french[la] OR portuguese[la] OR undetermined[la])

i. Type of publication (primary research articles, reviews, undefined)

Filter by document types 'Article', 'Review' and "Undefined"

Save results as Anisakids2010-2020_PubMed

2.2.4 SCielo

These search strings are partitioned.

#string 1

((("microbial quality") OR ("microbial safety") OR ("microbiological quality") OR ("microbiological safety") OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity)))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi))

OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei)
OR (Ph. bulbosa))

AND

((seafood) OR (seafoods) OR ("sea food") OR ("sea foods") OR (crustacean*) OR (shellfish) OR (bivalve*) OR (mollusc*) OR (mollusk*) OR (fish*) OR (finfish*) OR ("fishery product*") OR ("marine gasteropod*") OR (cephalopod) OR (cephalopods) OR (crustacean) OR (crustaceans) OR (echinoderm) OR (echinoderms) OR ("sea urchin") OR ("sea urchins") OR (holoturid*) OR (tunicate) OR (tunicates) OR (urchin*) OR (crab*) OR (prawn*) OR (shrimp*) OR (lobster*) OR ("crayfish") OR (crabfish) OR (crawfish) OR (langoustine) OR (scampi) OR ("clam") OR ("clams") OR ("carpet shell*") OR (scallop*) OR (Pecten) OR (oyster*) OR (cockle) OR (cockles) OR (mussel) OR (mussels) OR (mytilus) OR ("Pen shell*") OR (snail*) OR (abalone*) OR (Nassarius) OR ("whelk*") OR (Bolinus) OR ("murex") OR (ormer) OR (Haliotis) OR ("true limpet*") OR (Patella) OR (Cellana) OR (Buccinum) OR (Concholepas) OR (conch*) OR (winkle*))

AND NOT

("in vitro") OR ("in-vitro") OR ("challenge study") OR ("essential oil*") OR (attribution) OR (biofilm*) OR ("plant extract") OR ("extracts") OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR ("feed supplement*"))

#string 2

("microbial quality") OR ("microbial safety") OR ("microbiological quality") OR ("microbiological safety") OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((periwinkle*) OR (octopus) OR (squid*) OR (cuttlefish) OR (nautilus*) OR (Todarodes) OR (Loligo) OR (Sepia) OR (Paracentrotus) OR (Strongylocentrotus) OR (“Echinus esculentus”) OR (“sea cucumber”) OR (“cukes”) OR (piure*) OR (pyura) OR (“sea violet”) OR (“sea tulip”) OR (“sea peach”) OR (“sea pineapple”) OR (“ice floe”) OR (“sea squirt”) OR (gravad) OR (graved) OR ("gravad lax") OR (gravlax) OR (sushi) OR (sashimi) OR (surimi) OR (ceviche) OR (caviar) OR (albacore) OR (amberjack) OR (anchovy) OR (anchovies) OR (angler) OR (anglerfish*) OR (anguilla) OR (argentine) OR (Argyrosomus) OR (bacha) OR (barbel) OR (barracuda) OR (basa) OR (bass) OR (beluga) OR (bib) OR (bigeye) OR (blackfish) OR (bleak) OR (blenny) OR (bluefish) OR (“blue runner”) OR (“blue shark”) OR (bonito) OR (branzino) OR (bream) OR (brill) OR (burbot) OR (butterfish) OR (Capellin) OR (carp) OR (catfish) OR (catshark) OR (“Chelon auratus”) OR (chub) OR (“clupea harengus”) OR (cod) OR (comber) OR (conger) OR (corb) OR (cutlassfish) OR (cyclopterus) OR (Cyprinus) OR (cyprinidae) OR (dab) OR (“danubian wels”) OR (dentex) OR (dicentrarchus) OR (dogfish) OR (eel) OR (emperor) OR (engraulis) OR (flathead) OR (flounder) OR (“flying fish”) OR (forkbeard) OR (gadus) OR (garfish) OR (garrick) OR (goby) OR (goldline) OR (grouper) OR (guitarfish) OR (gunard) OR (haddock) OR (hake) OR (halibut) OR (hammerhead) OR (herring) OR (hippoglossus) OR (hoki) OR (huss) OR (icefish) OR (“John dory”) OR (“Katsuwonus pelamis”) OR (labrus) OR (lamprey) OR (lanternfish) OR (leerfish) OR (ling) OR (“little tunny”) OR (“Liza aurata”) OR (lophius) OR (lumpfish) OR (lythe) OR (mackerel) OR (“mahi mahi”) OR (“mallotus villosus”) OR (marlin) OR (meagre) OR (megrim))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement”))

#string 3

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum))

OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((melva) OR (merluccius) OR (Micromesistius) OR (monkfish) OR (moonfish) OR (mugil) OR (mullet) OR (“mullus barbatus”) OR (needlefish) OR (Oncorhynchus) OR (oreo) OR (osmeridae) OR (pacu) OR (pandoras) OR (panga) OR (pangasius) OR (parrotfish) OR (“parrot fish”) OR (perch) OR (picarel) OR (pike) OR (pikeperch) OR (pilchard) OR (pilotfish) OR (“pilot fish”) OR (platichthys) OR (plaice) OR (pleuronectes) OR (pollan) OR (Pollack) OR (Pollock) OR (ponyfish) OR (porbeagle) OR (pout) OR (pouting) OR (ray) OR (ribbonfish) OR (rigg) OR (rockfish) OR (rosefish) OR (sablefish) OR (sailfish) OR (salmon) OR (salmo) OR (sandeel) OR (sardine) OR (sardina) OR (sardinella) OR (scabbardfish) OR (scomber) OR (scophthalmus) OR (scorpionfish) OR (“sea bass”) OR (seabass) OR (seabream) OR (“sea bream”) OR (seriola) OR (sheatfish) OR (“shi drum”) OR (sild) OR (sillago) OR (skipjack) OR (smelt) OR (smooth hound) OR (“smooth-hound”) OR (snapper) OR (snook) OR (sole) OR (solea) OR (sparidae) OR (sparus) OR (sparling) OR (spearfish) OR (sprat) OR (sprattus) OR (“St Peter’s fish”) OR (stargazer) OR (stingray) OR (stizostedion) OR (sturgeon) OR (“surgeon fish”) OR (trachurus) OR (swordfish) OR (tailor) OR (tench) OR (theragra) OR (thunnus) OR (tilapia) OR (tinca) OR (threadfin) OR (triggerfish) OR (trisopterus) OR (trout) OR (tubefish) OR (tuna) OR (turbot) OR (tusk) OR (walleye) OR (weever) OR (whitebait) OR (whiting) OR (wrasse) OR (yellowtail))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

#string 4

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Anisakidae) OR (anisakid*) OR (Anisakis) OR (Pseudoterranova) OR (Contracaecum) OR (A. simplex) OR (A. pegreffii) OR (A. berlandi) OR (A. typica) OR (A. ziphidarum) OR (A. physeteris) OR (A. brevispiculata) OR (A. paggiae) OR (A. nascettii) OR (P. krabbei) OR (P. decipiens) OR (P. bulbosa) OR (P. azarasi) OR (P. cattani) OR (C. osculatum) OR (C. radiatum) OR (C. mirounga) OR (C. ogmorhini) OR (C. margolisi) OR (Phocanema) OR (Ph. decipiens) OR (Ph. azarasi) OR (Ph. cattani) OR (Ph. krabbei) OR (Ph. bulbosa))

AND

((meal) OR (meals) OR (food) OR (foods) OR (“buffet meal*”) OR (“complex food”) OR (“frozen meal*”) OR (multi-ingredient) OR (“multi ingredient”) OR (ready-to-eat) OR (RTE) OR (“ready meal”) OR (“ready prepared”) OR (“ready to eat”) OR (“under vacuum”) OR (composite*) OR (convenience) OR (cured) OR (dip) OR (dips) OR (dish) OR (dishes) OR (dressing*) OR (dumpling*) OR (fermented) OR (filling) OR (gravy) OR (macerated) OR (marinad*) OR (marinate*) OR (mayonnaise) OR (pasta) OR (pizza) OR (pickled) OR (preserved) OR (pudding*) OR (puree*) OR (salsa) OR (salsas) OR (salted) OR (sandwich*) OR (sashimi) OR (ceviche) OR (sauce*) OR (smoked) OR (snack) OR (snacks) OR (soup) OR (soups) OR (stew*) OR (surimi) OR (sushi) OR (topping*) OR (chowder))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

i. Type of publication (primary research articles)

Filter by document types ‘Article’, ‘Review’ and “Undefined”

ii. Language (English, Spanish, French, Portuguese, undefined)

Filter by languages ‘English’, ‘Spanish’, ‘French’, ‘Portuguese’ and “Undefined”

iii. Year of publication (not date of database insertion)

Filter by ‘year’ (SciELO only filters by year of publication)

Save results as Anisakids2010-2020_Scielo

2.3 Search #3

The objective is to recover papers published on other parasites (not Anisakids) in fishery in any country between 01-01-2010 and 30-09-2023.

Primary studies and reviews, and in the 4 languages.

2.3.1. SCOPUS

(TITLE-ABS-KEY("microbial quality") OR TITLE-ABS-KEY("microbial safety") OR TITLE-ABS-KEY("microbiological quality") OR TITLE-ABS-KEY("microbiological safety") OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(analysis) OR TITLE-ABS-KEY(concentration) OR TITLE-ABS-KEY(contamination) OR TITLE-ABS-KEY(count*) OR TITLE-ABS-KEY(detection) OR TITLE-ABS-KEY(enumeration) OR TITLE-ABS-KEY(incidence) OR TITLE-ABS-KEY(investigation) OR TITLE-ABS-KEY(occurrence) OR TITLE-ABS-KEY(presence) OR TITLE-ABS-KEY(prevalence) OR TITLE-ABS-KEY(sampling) OR TITLE-ABS-KEY(survey*) OR TITLE-ABS-KEY(abundance) OR TITLE-ABS-KEY(intensity))

AND

(TITLE-ABS-KEY (Cryptocotyle) OR TITLE-ABS-KEY ({C. lingua}) OR TITLE-ABS-KEY (Opisthorchis) OR TITLE-ABS-KEY ({O. felinus}) OR TITLE-ABS-KEY (Methorchis) OR TITLE-ABS-KEY (Pseudamphistomum) OR TITLE-ABS-KEY ({P. truncatum}) OR TITLE-ABS-KEY (Dibothriocephalus) OR TITLE-ABS-KEY (Diphyllbothrium) OR TITLE-ABS-KEY (Bolbosoma) OR TITLE-ABS-KEY (Corynosoma) OR TITLE-ABS-KEY (Myxosporidia) OR TITLE-ABS-KEY (Kudoa))

AND

(TITLE-ABS-KEY (seafood) OR TITLE-ABS-KEY (seafoods) OR TITLE-ABS-KEY("sea food") OR TITLE-ABS-KEY("sea foods") OR TITLE-ABS-KEY(crustacean*) OR TITLE-ABS-KEY(shellfish) OR TITLE-ABS-KEY(bivalve*) OR TITLE-ABS-KEY(mollusc*) OR TITLE-ABS-KEY(mollusk*) OR TITLE-ABS-KEY(fish*) OR TITLE-ABS-KEY(finfish*) OR TITLE-ABS-KEY("fishery product*") OR TITLE-ABS-KEY("marine gastropod*") OR TITLE-ABS-KEY(cephalopod) OR TITLE-ABS-KEY(cephalopods) OR TITLE-ABS-KEY(crustacean) OR TITLE-ABS-KEY(crustaceans) OR TITLE-ABS-KEY(echinoderm) OR TITLE-ABS-KEY(echinoderms) OR TITL—ABS-KEY("sea urchin") OR TITLE-ABS-KEY("sea urchins") OR TITLE-ABS-KEY(holoturid*) OR TITLE-ABS-KEY(tunicate) OR TITLE-ABS-KEY(tunicates) OR TITLE-ABS-KEY(urchin*) OR TITLE-ABS-KEY(crab*) OR TITLE-ABS-KEY(prawn*) OR TITLE-ABS-KEY(shrimp*) OR TITLE-ABS-KEY(lobster*) OR TITLE-ABS-KEY("crayfish") OR TITLE-ABS-KEY(crabfish) OR TITLE-ABS-KEY(crawfish) OR TITLE-ABS-KEY(langoustine) OR TITLE-ABS-

KEY(scampi) OR TITLE-ABS-KEY(“clam”) OR TITLE-ABS-KEY(“clams”) OR TITLE-ABS-KEY(“carpet shell*”) OR TITLE-ABS-KEY(scallop*) OR TITLE-ABS-KEY(Pecten) OR TITLE-ABS-KEY(oyster*) OR TITLE-ABS-KEY(cockle) OR TITLE-ABS-KEY(cockles) OR TITLE-ABS-KEY(mussel) OR TITLE-ABS-KEY(mussels) OR TITLE-ABS-KEY(mytilus) OR TITLE-ABS-KEY(“Pen shell*”) OR TITLE-ABS-KEY(snail*) OR TITLE-ABS-KEY(abalone*) OR TITLE-ABS-KEY(Nassarius) OR TITLE-ABS-KEY(“whelk*”) OR TITLE-ABS-KEY(Bolinus) OR TITLE-ABS-KEY(“murex”) OR TITLE-ABS-KEY(mer) OR TITLE-ABS-KEY(Haliotis) OR TITLE-ABS-KEY(“true limpet*”) OR TITLE-ABS-KEY(Patella) OR TITLE-ABS-KEY(Cellana) OR TITLE-ABS-KEY(Buccinum) OR TITLE-ABS-KEY(Concholepas) OR TITLE-ABS-KEY(conch*) OR TITLE-ABS-KEY(winkle*) OR TITLE-ABS-KEY(periwinkle*) OR TITLE-ABS-KEY(octopus) OR TITLE-ABS-KEY(squid*) OR TITLE-ABS-KEY(cuttlefish) OR TITLE-ABS-KEY(nautilus*) OR TITLE-ABS-KEY(Todarodes) OR TITLE-ABS-KEY(Loligo) OR TITLE-ABS-KEY(Sepia) OR TITLE-ABS-KEY(Paracentrotus) OR TITLE-ABS-KEY(Strongylocentrotus) OR TITLE-ABS-KEY(“Echinus esculentus”) OR TITLE-ABS-KEY(“sea cucumber*”) OR TITLE-ABS-KEY(“cukes”) OR TITLE-ABS-KEY(piure*) OR TITLE-ABS-KEY(pyura) OR TITLE-ABS-KEY(“sea violet*”) OR TITLE-ABS-KEY(“sea tulip*”) OR TITLE-ABS-KEY(“sea peach*”) OR TITLE-ABS-KEY(“sea pineapple*”) OR TITLE-ABS-KEY(“ice floe”) OR TITLE-ABS-KEY(“sea squirt*”) OR TITLE-ABS-KEY(gravad) OR TITLE-ABS-KEY(graved) OR TITLE-ABS-KEY("gravad lax") OR TITLE-ABS-KEY(gravlax) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(sashimi) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(caviar) OR TITLE-ABS-KEY(albacore) OR TITLE-ABS-KEY(amberjack) OR TITLE-ABS-KEY(anchovy) OR TITLE-ABS-KEY(anchovies) OR TITLE-ABS-KEY(angler) OR TITLE-ABS-KEY(anglerfish*) OR TITLE-ABS-KEY(anguilla) OR TITLE-ABS-KEY(argentine) OR TITLE-ABS-KEY(Argyrosomus) OR TITLE-ABS-KEY(bacha) OR TITLE-ABS-KEY(barbel) OR TITLE-ABS-KEY(barracuda) OR TITLE-ABS-KEY(basa) OR TITLE-ABS-KEY(bass) OR TITLE-ABS-KEY(beluga) OR TITLE-ABS-KEY(bib) OR TITLE-ABS-KEY(bigeye) OR TITLE-ABS-KEY(blackfish) OR TITLE-ABS-KEY(bleak) OR TITLE-ABS-KEY(blenny) OR TITLE-ABS-KEY(bluefish) OR TITLE-ABS-KEY(“blue runner”) OR TITLE-ABS-KEY(“blue shark”) OR TITLE-ABS-KEY(bonito) OR TITLE-ABS-KEY(branzino) OR TITLE-ABS-KEY(bream) OR TITLE-ABS-KEY(brill) OR TITLE-ABS-KEY(burbot) OR TITLE-ABS-KEY(butterfish) OR TITLE-ABS-KEY(Capellin) OR TITLE-ABS-KEY(carp) OR TITLE-ABS-KEY(catfish) OR TITLE-ABS-KEY(catshark) OR TITLE-ABS-KEY(“Chelon auratus”) OR TITLE-ABS-KEY(chub) OR TITLE-ABS-KEY(“clupea harengus”) OR TITLE-ABS-KEY(cod) OR TITLE-ABS-KEY(comber) OR TITLE-ABS-KEY(conger) OR TITLE-ABS-KEY(corb) OR TITLE-ABS-KEY(cutlassfish) OR TITLE-ABS-KEY(cyclopterus) OR TITLE-ABS-KEY(Cyprinus) OR TITLE-ABS-KEY(cyprinidae) OR TITLE-ABS-KEY(dab) OR TITLE-ABS-KEY(“danubian wels”) OR TITLE-ABS-KEY(dentex) OR TITLE-ABS-KEY(dicentrarchus) OR TITLE-

ABS-KEY(dogfish) OR TITLE-ABS-KEY(eel) OR TITLE-ABS-KEY(emperor) OR TITLE-ABS-KEY(engraulis) OR TITLE-ABS-KEY(flathead) OR TITLE-ABS-KEY(flounder) OR TITLE-ABS-KEY(“flying fish”) OR TITLE-ABS-KEY(forkbeard) OR TITLE-ABS-KEY(gadus) OR TITLE-ABS-KEY(garfish) OR TITLE-ABS-KEY(garrick) OR TITLE-ABS-KEY(goby) OR TITLE-ABS-KEY(goldline) OR TITLE-ABS-KEY(grouper) OR TITLE-ABS-KEY(guitarfish) OR TITLE-ABS-KEY(gunard) OR TITLE-ABS-KEY(haddock) OR TITLE-ABS-KEY(hake) OR TITLE-ABS-KEY(halibut) OR TITLE-ABS-KEY(hammerhead) OR TITLE-ABS-KEY(herring) OR TITLE-ABS-KEY(hippoglossus) OR TITLE-ABS-KEY(hoki) OR TITLE-ABS-KEY(huss) OR TITLE-ABS-KEY(icesfish) OR TITLE-ABS-KEY(“John dory”) OR TITLE-ABS-KEY(“Katsuwonus pelamis”) OR TITLE-ABS-KEY(labrus) OR TITLE-ABS-KEY(lamprey) OR TITLE-ABS-KEY(lanternfish) OR TITLE-ABS-KEY(leerfish) OR TITLE-ABS-KEY(ling) OR TITLE-ABS-KEY(“little tunny”) OR TITLE-ABS-KEY(“Liza aurata”) OR TITLE-ABS-KEY(lophius) OR TITLE-ABS-KEY(lumpfish) OR TITLE-ABS-KEY(lythe) OR TITLE-ABS-KEY(mackerel) OR TITLE-ABS-KEY(“mahi mahi”) OR TITLE-ABS-KEY(“mallotus villosus”) OR TITLE-ABS-KEY(marlin) OR TITLE-ABS-KEY(meagre) OR TITLE-ABS-KEY(megrim) OR TITLE-ABS-KEY(melva) OR TITLE-ABS-KEY(merluccius) OR TITLE-ABS-KEY(Micromesistius) OR TITLE-ABS-KEY(monkfish) OR TITLE-ABS-KEY(moonfish) OR TITLE-ABS-KEY(mugil) OR TITLE-ABS-KEY(mullet) OR TITLE-ABS-KEY(“mullus barbatus”) OR TITLE-ABS-KEY(needlefish) OR TITLE-ABS-KEY(Oncorhynchus) OR TITLE-ABS-KEY(oreo) OR TITLE-ABS-KEY(osmeridae) OR TITLE-ABS-KEY(pacu) OR TITLE-ABS-KEY(pandoras) OR TITLE-ABS-KEY(panga) OR TITLE-ABS-KEY(pangasius) OR TITLE-ABS-KEY(parrotfish) OR TITLE-ABS-KEY(“parrot fish”) OR TITLE-ABS-KEY(perch) OR TITLE-ABS-KEY(picarel) OR TITLE-ABS-KEY(pike) OR TITLE-ABS-KEY(pikeperch) OR TITLE-ABS-KEY(pilchard) OR TITLE-ABS-KEY(pilotfish) OR TITLE-ABS-KEY(“pilot fish”) OR TITLE-ABS-KEY(platichthys) OR TITLE-ABS-KEY(plaice) OR TITLE-ABS-KEY(pleuronectes) OR TITLE-ABS-KEY(pollan) OR TITLE-ABS-KEY(Pollack) OR TITLE-ABS-KEY(Pollock) OR TITLE-ABS-KEY(ponyfish) OR TITLE-ABS-KEY(porbeagle) OR TITLE-ABS-KEY(pout) OR TITLE-ABS-KEY(pouting) OR TITLE-ABS-KEY(ray) OR TITLE-ABS-KEY(ribbonfish) OR TITLE-ABS-KEY(rigg) OR TITLE-ABS-KEY(rockfish) OR TITLE-ABS-KEY(rosefish) OR TITLE-ABS-KEY(sablefish) OR TITLE-ABS-KEY(sailfish) OR TITLE-ABS-KEY(salmon) OR TITLE-ABS-KEY(salmo) OR TITLE-ABS-KEY(sandeel) OR TITLE-ABS-KEY(sardine) OR TITLE-ABS-KEY(sardina) OR TITLE-ABS-KEY(sardinella) OR TITLE-ABS-KEY(scabbardfish) OR TITLE-ABS-KEY(scomber) OR TITLE-ABS-KEY(scophthalmus) OR TITLE-ABS-KEY(scorpionfish) OR TITLE-ABS-KEY(“sea bass”) OR TITLE-ABS-KEY(seabass) OR TITLE-ABS-KEY(seabream) OR TITLE-ABS-KEY(“sea bream”) OR TITLE-ABS-KEY(seriola) OR TITLE-ABS-KEY(sheatfish) OR TITLE-ABS-KEY(“shi drum”) OR TITLE-ABS-KEY(sild) OR TITLE-ABS-KEY(sillago) OR TITLE-ABS-KEY(skipjack) OR TITLE-ABS-KEY(smelt) OR TITLE-ABS-KEY(smooth hound) OR TITLE-ABS-

KEY(“smooth-hound”) OR TITLE-ABS-KEY(snapper) OR TITLE-ABS-KEY(snook) OR TITLE-ABS-KEY(sole) OR TITLE-ABS-KEY(solea) OR TITLE-ABS-KEY(sparidae) OR TITLE-ABS-KEY(sparus) OR TITLE-ABS-KEY(sparling) OR TITLE-ABS-KEY(spearfish) OR TITLE-ABS-KEY(sprat) OR TITLE-ABS-KEY(sprattus) OR TITLE-ABS-KEY(“St Peter’s fish”) OR TITLE-ABS-KEY(stargazer) OR TITLE-ABS-KEY(stingray) OR TITLE-ABS-KEY(stizostedion) OR TITLE-ABS-KEY(sturgeon) OR TITLE-ABS-KEY(“surgeon fish”) OR TITLE-ABS-KEY(trachurus) OR TITLE-ABS-KEY(swordfish) OR TITLE-ABS-KEY(tailor) OR TITLE-ABS-KEY(tench) OR TITLE-ABS-KEY(theragra) OR TITLE-ABS-KEY(thunnus) OR TITLE-ABS-KEY(tilapia) OR TITLE-ABS-KEY(tinca) OR TITLE-ABS-KEY(threadfin) OR TITLE-ABS-KEY(triggerfish) OR TITLE-ABS-KEY(trisopterus) OR TITLE-ABS-KEY(trout) OR TITLE-ABS-KEY(tubefish) OR TITLE-ABS-KEY(tuna) OR TITLE-ABS-KEY(turbot) OR TITLE-ABS-KEY(tusk) OR TITLE-ABS-KEY(walleye) OR TITLE-ABS-KEY(weever) OR TITLE-ABS-KEY(whitebait) OR TITLE-ABS-KEY(whiting) OR TITLE-ABS-KEY(wrasse) OR TITLE-ABS-KEY(yellowtail) OR TITLE-ABS-KEY(meal) OR TITLE-ABS-KEY(meals) OR TITLE-ABS-KEY(food) OR TITLE-ABS-KEY(foods) OR TITLE-ABS-KEY(“buffet meal*”) OR TITLE-ABS-KEY(“complex food”) OR TITLE-ABS-KEY(“frozen meal*”) OR TITLE-ABS-KEY(multi-ingredient) OR TITLE-ABS-KEY(“multi ingredient”) OR TITLE-ABS-KEY(ready-to-eat) OR TITLE-ABS-KEY(RTE) OR TITLE-ABS-KEY(“ready meal”) OR TITLE-ABS-KEY(“ready prepared”) OR TITLE-ABS-KEY(“ready to eat”) OR TITLE-ABS-KEY(“under vacuum”) OR TITLE-ABS-KEY(composite*) OR TITLE-ABS-KEY(convenience) OR TITLE-ABS-KEY(cured) OR TITLE-ABS-KEY(dip) OR TITLE-ABS-KEY(dips) OR TITLE-ABS-KEY(dish) OR TITLE-ABS-KEY(dishes) OR TITLE-ABS-KEY(dressing*) OR TITLE-ABS-KEY(dumpling*) OR TITLE-ABS-KEY(fermented) OR TITLE-ABS-KEY(filling) OR TITLE-ABS-KEY(gravy) OR TITLE-ABS-KEY(macerated) OR TITLE-ABS-KEY(marinad*) OR TITLE-ABS-KEY(marinate*) OR TITLE-ABS-KEY(mayonnaise) OR TITLE-ABS-KEY(pasta) OR TITLE-ABS-KEY(pizza) OR TITLE-ABS-KEY(pickled) OR TITLE-ABS-KEY(preserved) OR TITLE-ABS-KEY(pudding*) OR TITLE-ABS-KEY(puree*) OR TITLE-ABS-KEY(salsa) OR TITLE-ABS-KEY(salsas) OR TITLE-ABS-KEY(salted) OR TITLE-ABS-KEY(sandwich*) OR TITLE-ABS-KEY(sashimi) OR TITLE-ABS-KEY(ceviche) OR TITLE-ABS-KEY(sauce*) OR TITLE-ABS-KEY(smoked) OR TITLE-ABS-KEY(snack) OR TITLE-ABS-KEY(snacks) OR TITLE-ABS-KEY(soup) OR TITLE-ABS-KEY(soups) OR TITLE-ABS-KEY(stew*) OR TITLE-ABS-KEY(surimi) OR TITLE-ABS-KEY(sushi) OR TITLE-ABS-KEY(topping*) OR TITLE-ABS-KEY(chowder)

AND NOT

(TITLE-ABS-KEY(“in vitro”) OR TITLE-ABS-KEY(“in-vitro”) OR TITLE-ABS-KEY(“challenge study”) OR TITLE-ABS-KEY(“essential oil*”) OR TITLE-ABS-KEY(attribution) OR TITLE-ABS-KEY(biofilm*) OR TITLE-ABS-KEY(“plant

extract”) OR TITLE-ABS-KEY(“extracts”) OR TITLE-ABS-KEY(feed) OR TITLE-ABS-KEY(livestock) OR TITLE-ABS-KEY(sanitiser) OR TITLE-ABS-KEY(sanitizer) OR TITLE-ABS-KEY(spiked) OR TITLE-ABS-KEY(“feed supplement*”))

AND

((LOAD-DATE AFT 20100101) AND (LOAD-DATE BEF 20230930))

AND

(PUBYEAR AFT 2009)

Type of publication (primary research articles, reviews, undefined)

Filter by document types ‘Article’, ‘Review’ and “Undefined”

[or in the query string, add: AND (LIMIT-TO (DOCTYPE,"ar") OR LIMIT-TO (DOCTYPE,"re") OR LIMIT-TO (DOCTYPE,"Undefined"))]

Language (English, Spanish, French, Portuguese, undefined)

Filter by languages ‘English’, ‘Spanish’, ‘French’, ‘Portuguese’ and “Undefined”

[or in the query string, add: AND (LIMIT-TO (LANGUAGE,"English") OR LIMIT-TO (LANGUAGE,"French") OR LIMIT-TO (LANGUAGE,"Spanish") OR LIMIT-TO (LANGUAGE,"Portuguese") OR LIMIT-TO (LANGUAGE,"Undefined"))]

Save results as OtherParasites2010-2023_Scopus
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2.3.2. Web of Science

(TS=(“microbial quality” OR “microbial safety” OR “microbiological quality” OR “microbiological safety” OR analyses OR analysis OR concentration OR contamination OR count* OR detection OR enumeration OR incidence OR investigation OR occurrence OR presence OR prevalence OR sampling OR survey* OR abundance OR intensity))

AND

(TS=(Cryptocotyle OR “C. lingua” OR Opisthorchis OR “O. felinus” OR Methorchis OR Pseudamphistomum OR “P. truncatum” OR Dibothriocephalus OR Diphyllbothrium OR Bolbosoma OR Corynosoma OR Myxosporidia OR Kudoa))

AND

TS=(seafood OR seafoods OR “sea food” OR “sea foods” OR crustacean* OR shellfish OR bivalve* OR mollusc* OR mollusk* OR fish* OR finfish* OR “fishery product*” OR “marine gasteropod*” OR cephalopod OR cephalopods OR crustacean OR crustaceans OR echinoderm OR echinoderms OR “sea urchin” OR “sea urchins” OR holoturid* OR tunicate OR tunicates OR urchin* OR crab* OR prawn* OR shrimp* OR lobster* OR “crayfish” OR crabfish OR crawfish OR langoustine OR scampi OR “clam” OR “clams” OR “carpet shell*” OR scallop* OR Pecten OR oyster* OR cockle OR cockles OR mussel OR mussels OR mytilus OR “Pen shell*” OR snail* OR abalone* OR Nassarius OR “whelk*” OR Bolinus OR “murex” OR ormer OR Haliotis OR “true limpet*” OR Patella OR Cellana OR Buccinum OR Concholepas OR conch* OR winkle* OR periwinkle* OR octopus OR squid* OR cuttlefish OR nautilus* OR Todarodes OR Loligo OR Sepia OR Paracentrotus OR Strongylocentrotus OR “Echinus esculentus” OR “sea cucumber*” OR “cukes” OR piure* OR pyura OR “sea violet*” OR “sea tulip*” OR “sea peach*” OR “sea pineapple*” OR “ice floe” OR “sea squirt*” OR gravad OR gravad OR “gravad lax” OR gravlax OR sushi OR sashimi OR surimi OR ceviche OR caviar OR albacore OR amberjack OR anchovy OR anchovies OR angler OR anglerfish* OR anguilla OR argentine OR Argyrosomus OR bacha OR barbel OR barracuda OR basa OR bass OR beluga OR bib OR bigeye OR blackfish OR bleak OR blenny OR bluefish OR “blue runner” OR “blue shark” OR bonito OR branzino OR bream OR brill OR burbot OR butterfish OR Capelin OR carp OR catfish OR catshark OR “Chelon auratus” OR chub OR “clupea harengus” OR cod OR comber OR conger OR corb OR cutlassfish OR cyclopterus OR Cyprinus OR cyprinidae OR dab OR “danubian wels” OR dentex OR dicentrarchus OR dogfish OR eel OR emperor OR engraulis OR flathead OR flounder OR “flying fish” OR forkbeard OR gadus OR garfish OR garrick OR goby OR goldline OR grouper OR guitarfish OR gunard OR haddock OR hake OR halibut OR hammerhead OR herring OR hippoglossus OR hoki OR huss OR icefish OR “John dory” OR “Katsuwonus pelamis” OR labrus OR lamprey OR lanternfish OR leerfish OR ling OR “little tunny” OR “Liza aurata” OR lophius OR lumpfish OR lythe OR mackerel OR “mahi mahi” OR “mallotus villosus” OR marlin OR meagre OR megrim OR melva OR merluccius OR Micromesistius OR monkfish OR moonfish OR mugil OR mullet OR “mullus barbatus” OR needlefish OR Oncorhynchus OR oreo OR osmeridae OR pacu OR pandoras OR panga OR pangasius OR parrotfish OR “parrot fish” OR perch OR picarel OR pike OR pikeperch OR pilchard OR pilotfish OR “pilot fish” OR platichthys OR plaice OR pleuronectes OR pollan OR Pollack OR Pollock OR ponyfish OR porbeagle OR pout OR pouting OR ray OR ribbonfish OR rigg OR rockfish OR rosefish OR sablefish OR sailfish OR salmon OR salmo OR sandeel OR sardine OR sardina OR sardinella OR scabbardfish OR scomber OR scophthalmus OR scorpionfish OR “sea bass” OR seabass OR seabream OR “sea bream” OR seriola OR sheatfish OR “shi drum” OR sild OR sillago OR skipjack OR smelt OR smooth hound OR “smooth-hound” OR snapper OR snook OR sole OR solea OR sparidae OR sparus OR sparling OR spearfish OR sprat OR sprattus OR “St Peter’s fish” OR stargazer OR stingray OR stizostedion OR sturgeon OR “surgeon fish” OR trachurus OR swordfish OR tailor OR tench OR theragra OR thunnus OR tilapia OR tinca OR threadfin OR triggerfish OR trisopterus OR trout

OR tubefish OR tuna OR turbot OR tusk OR walleye OR weever OR whitebait OR whiting OR wrasse OR yellowtail meal OR meals OR food OR foods OR “buffet meal*” OR “complex food” OR “frozen meal*” OR multi-ingredient OR “multi ingredient” OR ready-to-eat OR RTE OR “ready meal” OR “ready prepared” OR “ready to eat” OR “under vacuum” OR composite* OR convenience OR cured OR dip OR dips OR dish OR dishes OR dressing* OR dumpling* OR fermented OR filling OR gravy OR macerated OR marinad* OR marinate* OR mayonnaise OR pasta OR pizza OR pickled OR preserved OR pudding* OR puree* OR salsa OR salsas OR salted OR sandwich* OR sashimi OR ceviche OR sauce* OR smoked OR snack OR snacks OR soup OR soups OR stew* OR surimi OR sushi OR topping* OR chowder)

NOT

(TS= (“in vitro” OR “in-vitro” OR “challenge study” OR “essential oil*” OR attribution OR biofilm* OR “plant extract” OR “extracts” OR feed OR livestock OR sanitiser OR sanitizer OR spiked OR “feed supplement*”))

AND LD=(2010-01-01/2023-09-30)

AND DT=(“ARTICLE” OR “UNDEFINED” OR “REVIEWS”)

AND LA=(“ENGLISH” OR “SPANISH” OR “FRENCH” OR “PORTUGUESE” OR “UNDEFINED”)

i. Year of publication

Filter by desired year of publication

Save results as OtherParasites2010-2023_WoS

2.3.3. PubMed

(“microbial quality” [tiab] OR “microbial safety” [tiab] OR “microbiological quality” [tiab] OR “microbiological safety” [tiab] OR analyses [tiab] OR analysis [tiab] OR concentration [tiab] OR contamination [tiab] OR count* [tiab] OR detection [tiab] OR enumeration [tiab] OR incidence [tiab] OR investigation [tiab] OR occurrence [tiab] OR presence [tiab] OR prevalence [tiab] OR sampling [tiab] OR survey* [tiab] OR abundance [tiab] OR intensity [tiab])

AND

(Cryptocotyle[tiab] OR “C. lingua”[tiab] OR Opisthorchis[tiab] OR “O. felinus”[tiab] OR Methorchis[tiab] OR Pseudamphistomum[tiab] OR “P. truncatum”[tiab] OR

Dibothriocephalus[tiab] OR Diphyllbothrium[tiab] OR Bolbosoma[tiab] OR Corynosoma[tiab] OR Myxosporidia[tiab] OR Kudoa[tiab])

AND

(seafood[tiab] OR seafoods[tiab] OR "sea food"[tiab] OR "sea foods"[tiab] OR crustacean*[tiab] OR shellfish[tiab] OR bivalve*[tiab] OR mollusc*[tiab] OR mollusk*[tiab] OR fish*[tiab] OR finfish*[tiab] OR "fishery product*[tiab] OR "marine gasteropod*[tiab] OR cephalopod[tiab] OR cephalopods[tiab] OR crustacean[tiab] OR crustaceans[tiab] OR echinoderm[tiab] OR echinoderms[tiab] OR "sea urchin"[tiab] OR "sea urchins"[tiab] OR holoturid*[tiab] OR tunicate[tiab] OR tunicates[tiab] OR urchin*[tiab] OR crab*[tiab] OR prawn*[tiab] OR shrimp*[tiab] OR lobster*[tiab] OR "crayfish"[tiab] OR crabfish[tiab] OR crawfish[tiab] OR langoustine[tiab] OR scampi[tiab] OR "clam"[tiab] OR "clams"[tiab] OR "carpet shell*[tiab] OR scallop*[tiab] OR Pecten[tiab] OR oyster*[tiab] OR cockle[tiab] OR cockles[tiab] OR mussel[tiab] OR mussels[tiab] OR mytilus[tiab] OR "Pen shell*[tiab] OR snail*[tiab] OR abalone*[tiab] OR Nassarius[tiab] OR "whelk*[tiab] OR Bolinus[tiab] OR "murex"[tiab] OR ormer[tiab] OR Haliotis[tiab] OR "true limpet*[tiab] OR Patella[tiab] OR Cellana[tiab] OR Buccinum[tiab] OR Concholepas[tiab] OR conch*[tiab] OR winkle*[tiab] OR periwinkle*[tiab] OR octopus[tiab] OR squid*[tiab] OR cuttlefish[tiab] OR nautilus*[tiab] OR Todarodes[tiab] OR Loligo[tiab] OR Sepia[tiab] OR Paracentrotus[tiab] OR Strongylocentrotus[tiab] OR "Echinus esculentus"[tiab] OR "sea cucumber*[tiab] OR "cukes"[tiab] OR piure*[tiab] OR pyura[tiab] OR "sea violet*[tiab] OR "sea tulip*[tiab] OR "sea peach*[tiab] OR "sea pineapple*[tiab] OR "ice floe"[tiab] OR "sea squirt*[tiab] OR gravad[tiab] OR graved[tiab] OR "gravad lax"[tiab] OR gravlax[tiab] OR sushi[tiab] OR sashimi[tiab] OR surimi[tiab] OR ceviche[tiab] OR caviar[tiab] OR albacore[tiab] OR amberjack[tiab] OR anchovy[tiab] OR anchovies[tiab] OR angler[tiab] OR anglerfish*[tiab] OR anguilla[tiab] OR argentine[tiab] OR Argyrosomus[tiab] OR bacha[tiab] OR barbel[tiab] OR barracuda[tiab] OR basa[tiab] OR bass[tiab] OR beluga[tiab] OR bib[tiab] OR bigeye[tiab] OR blackfish[tiab] OR bleak[tiab] OR blenny[tiab] OR bluefish[tiab] OR "blue runner"[tiab] OR "blue shark"[tiab] OR bonito[tiab] OR branzino[tiab] OR bream[tiab] OR brill[tiab] OR burbot[tiab] OR butterfish[tiab] OR Capellin[tiab] OR carp[tiab] OR catfish[tiab] OR catshark[tiab] OR "Chelon auratus"OR chub[tiab] OR "clupea harengus"[tiab] OR cod[tiab] OR comber[tiab] OR conger[tiab] OR corb[tiab] OR cutlassfish[tiab] OR cyclopterus[tiab] OR Cyprinus[tiab] OR cyprinidae[tiab] OR dab[tiab] OR "danubian wels"[tiab] OR dentex[tiab] OR dicentrarchus[tiab] OR dogfish[tiab] OR eel[tiab] OR emperor[tiab] OR engraulis[tiab] OR flathead[tiab] OR flounder[tiab] OR "flying fish"[tiab] OR forkbeard[tiab] OR gadus[tiab] OR garfish[tiab] OR garrick[tiab] OR goby[tiab] OR goldline[tiab] OR grouper[tiab] OR guitarfish[tiab] OR gunard[tiab] OR haddock[tiab] OR hake[tiab] OR halibut[tiab] OR hammerhead[tiab] OR herring[tiab] OR hippoglossus[tiab] OR hoki[tiab] OR huss[tiab] OR icefish[tiab] OR "John dory"[tiab] OR "Katsuwonus pelamis"OR labrus[tiab] OR lamprey[tiab] OR lanternfish[tiab] OR leerfish[tiab] OR ling[tiab] OR "little tunny"[tiab]

OR "Liza aurata"OR lophius[tiab] OR lumpfish[tiab] OR lythe[tiab] OR mackerel[tiab]
OR "mahi mahi"[tiab] OR "mallotus villosus"[tiab] OR marlin[tiab] OR meagre[tiab] OR
megrim[tiab] OR melta[tiab] OR merluccius[tiab] OR Micromesistius[tiab] OR
monkfish[tiab] OR moonfish[tiab] OR mugil[tiab] OR mullet[tiab] OR "mullus
barbatus"[tiab] OR needlefish[tiab] OR Oncorhynchus[tiab] OR oreo[tiab] OR
osmeridae[tiab] OR pacu[tiab] OR pandoras[tiab] OR panga[tiab] OR pangasius[tiab] OR
parrotfish[tiab] OR "parrot fish"[tiab] OR perch[tiab] OR picarel[tiab] OR pike[tiab] OR
pikeperch[tiab] OR pilchard[tiab] OR pilotfish[tiab] OR "pilot fish"[tiab] OR
platichthys[tiab] OR plaice[tiab] OR pleuronectes[tiab] OR pollan[tiab] OR Pollack[tiab]
OR Pollock[tiab] OR ponyfish[tiab] OR porbeagle[tiab] OR pout[tiab] OR pouting[tiab]
OR ray[tiab] OR ribbonfish[tiab] OR rigg[tiab] OR rockfish[tiab] OR rosefish[tiab] OR
sablefish[tiab] OR sailfish[tiab] OR salmon[tiab] OR salmo[tiab] OR sandeel[tiab] OR
sardine[tiab] OR sardina[tiab] OR sardinella[tiab] OR scabbardfish[tiab] OR
scomber[tiab] OR scophthalmus[tiab] OR scorpionfish[tiab] OR "sea bass"OR
seabass[tiab] OR seabream[tiab] OR "sea bream"[tiab] OR seriola[tiab] OR
sheatfish[tiab] OR "shi drum"[tiab] OR sild[tiab] OR sillago[tiab] OR skipjack[tiab] OR
smelt[tiab] OR smooth hound[tiab] OR "smooth-hound"[tiab] OR snapper[tiab] OR
snook[tiab] OR sole[tiab] OR solea[tiab] OR sparidae[tiab] OR sparus[tiab] OR
sparing[tiab] OR spearfish[tiab] OR sprat[tiab] OR sprattus[tiab] OR "St Peter's
fish"[tiab] OR stargazer[tiab] OR stingray[tiab] OR stizostedion[tiab] OR sturgeon[tiab]
OR "surgeon fish"[tiab] OR trachurus[tiab] OR swordfish[tiab] OR tailor[tiab] OR
tench[tiab] OR theragra[tiab] OR thunnus[tiab] OR tilapia[tiab] OR tinca[tiab] OR
threadfin[tiab] OR triggerfish[tiab] OR trisopterus[tiab] OR trout[tiab] OR tubefish[tiab]
OR tuna[tiab] OR turbot[tiab] OR tusk[tiab] OR walleye[tiab] OR weever[tiab] OR
whitebait[tiab] OR whiting[tiab] OR wrasse[tiab] OR yellowtail[tiab] OR meal[tiab] OR
meals[tiab] OR food[tiab] OR foods[tiab] OR "buffet meal*" [tiab] OR "complex
food"[tiab] OR "frozen meal*" [tiab] OR multi-ingredient[tiab] OR "multi
ingredient"[tiab] OR ready-to-eat[tiab] OR RTE[tiab] OR "ready meal"[tiab] OR "ready
prepared"[tiab] OR "ready to eat"[tiab] OR "under vacuum"[tiab] OR composite*[tiab]
OR convenience[tiab] OR cured[tiab] OR dip[tiab] OR dips[tiab] OR dish[tiab] OR
dishes[tiab] OR dressing*[tiab] OR dumpling*[tiab] OR fermented[tiab] OR filling[tiab]
OR gravy[tiab] OR macerated[tiab] OR marinad*[tiab] OR marinate*[tiab] OR
mayonnaise[tiab] OR pasta[tiab] OR pizza[tiab] OR pickled[tiab] OR preserved[tiab] OR
pudding*[tiab] OR puree*[tiab] OR salsa[tiab] OR salsas[tiab] OR salted[tiab] OR
sandwich*[tiab] OR sashimi[tiab] OR ceviche[tiab] OR sauce*[tiab] OR smoked[tiab]
OR snack[tiab] OR snacks[tiab] OR soup[tiab] OR soups[tiab] OR stew*[tiab] OR
surimi[tiab] OR sushi[tiab] OR topping*[tiab] OR chowder [tiab])

NOT

("in vitro"[tiab] OR "in-vitro"[tiab] OR "challenge study"[tiab] OR "essential oil*" [tiab]
OR attribution[tiab] OR biofilm*[tiab] OR "plant extract"[tiab] OR "extracts"[tiab] OR
feed[tiab] OR livestock[tiab] OR sanitiser[tiab] OR sanitizer[tiab] OR spiked[tiab] OR
"feed supplement*" [tiab])

AND (2010/01/01:2023/09/30[edat])

AND (2010/01/01:2023/09/30[pdat])

AND (english[la] OR spanish[la] OR french[la] OR portuguese[la] OR undetermined[la])

i.Type of publication (primary research articles, reviews, undefined)

Filter by document types 'Article', 'Review' and "Undefined"

Save results as OtherParasites2010-2023_PubMed

2.3.4 SCielo

These search strings are partitioned.

#string 1

((("microbial quality") OR ("microbial safety") OR ("microbiological quality") OR ("microbiological safety") OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Cryptocotyle) OR (C. lingua) OR (Opisthorchis) OR (O. felineus) OR (Methorchis) OR (Pseudamphistomum) OR (P. truncatum) OR (Dibothriocephalus) OR (Diphyllbothrium) OR (Bolbosoma) OR (Corynosoma) OR (Myxosporidia) OR (Kudoa))

AND

((seafood) OR (seafoods) OR ("sea food") OR ("sea foods") OR (crustacean*) OR (shellfish) OR (bivalve*) OR (mollusc*) OR (mollusk*) OR (fish*) OR (finfish*) OR ("fishery product") OR ("marine gasteropod") OR (cephalopod) OR (cephalopods) OR (crustacean) OR (crustaceans) OR (echinoderm) OR (echinoderms) OR ("sea urchin") OR ("sea urchins") OR (holoturid*) OR (tunicate) OR (tunicates) OR (urchin*) OR (crab*) OR (prawn*) OR (shrimp*) OR (lobster*) OR ("crayfish") OR (crabfish) OR (crawfish) OR (langoustine) OR (scampi) OR ("clam") OR ("clams") OR ("carpet shell") OR (scallop*) OR (Pecten) OR (oyster*) OR (cockle) OR (cockles) OR (mussel) OR (mussels) OR (mytilus) OR ("Pen shell") OR (snail*) OR (abalone*) OR (Nassarius) OR ("whelk") OR (Bolinus) OR ("murex") OR (ormer) OR (Haliotis) OR ("true

limpet*”) OR (Patella) OR (Cellana) OR (Buccinum) OR (Concholepas) OR (conch*) OR (winkle*)

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

#string 2

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Cryptocotyle) OR (C. lingua) OR (Opisthorchis) OR (O. felinus) OR (Metorchis) OR (Pseudamphistomum) OR (P. truncatum) OR (Dibothriocephalus) OR (Diphylobothrium) OR (Bolbosoma) OR (Corynosoma) OR (Myxosporidia) OR (Kudoa))

AND

((periwinkle*) OR (octopus) OR (squid*) OR (cuttlefish) OR (nautilus*) OR (Todarodes) OR (Loligo) OR (Sepia) OR (Paracentrotus) OR (Strongylocentrotus) OR (“Echinus esculentus”) OR (“sea cucumber*”) OR (“cukes”) OR (piure*) OR (pyura) OR (“sea violet*”) OR (“sea tulip*”) OR (“sea peach*”) OR (“sea pineapple*”) OR (“ice floe”) OR (“sea squirt*”) OR (gravad) OR (graved) OR (“gravad lax”) OR (gravlax) OR (sushi) OR (sashimi) OR (surimi) OR (ceviche) OR (caviar) OR (albacore) OR (amberjack) OR (anchovy) OR (anchovies) OR (angler) OR (anglerfish*) OR (anguilla) OR (argentine) OR (Argyrosomus) OR (bacha) OR (barbel) OR (barracuda) OR (basa) OR (bass) OR (beluga) OR (bib) OR (bigeye) OR (blackfish) OR (bleak) OR (blenny) OR (bluefish) OR (“blue runner”) OR (“blue shark”) OR (bonito) OR (branzino) OR (bream) OR (brill) OR (burbot) OR (butterfish) OR (Capelin) OR (carp) OR (catfish) OR (catshark) OR (“Chelon auratus”) OR (chub) OR (“clupea harengus”) OR (cod) OR (comber) OR (conger) OR (corb) OR (cutlassfish) OR (cyclopterus) OR (Cyprinus) OR (cyprinidae) OR (dab) OR (“danubian wels”) OR (dentex) OR (dicentrarchus) OR (dogfish) OR (eel) OR (emperor) OR (engraulis) OR (flathead) OR (flounder) OR (“flying fish”) OR

((forkbeard) OR (gadus) OR (garfish) OR (garrick) OR (goby) OR (goldline) OR (grouper) OR (guitarfish) OR (gunard) OR (haddock) OR (hake) OR (halibut) OR (hammerhead) OR (herring) OR (hippoglossus) OR (hoki) OR (huss) OR (icefish) OR (“John dory”) OR (“Katsuwonus pelamis”) OR (labrus) OR (lamprey) OR (lanternfish) OR (leerfish) OR (ling) OR (“little tunny”) OR (“Liza aurata”) OR (lophius) OR (lumpfish) OR (lythe) OR (mackerel) OR (“mahi mahi”) OR (“mallotus villosus”) OR (marlin) OR (meagre) OR (megrim))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

#string 3

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Cryptocotyle) OR (C. lingua) OR (Opisthorchis) OR (O. felinus) OR (Metorchis) OR (Pseudamphistomum) OR (P. truncatum) OR (Dibothriocephalus) OR (Diphyllbothrium) OR (Bolbosoma) OR (Corynosoma) OR (Myxosporidia) OR (Kudoa))

AND

((melva) OR (merluccius) OR (Micromesistius) OR (monkfish) OR (moonfish) OR (mugil) OR (mullet) OR (“mullus barbatus”) OR (needlefish) OR (Oncorhynchus) OR (oreo) OR (osmeridae) OR (pacu) OR (pandoras) OR (panga) OR (pangasius) OR (parrotfish) OR (“parrot fish”) OR (perch) OR (picarel) OR (pike) OR (pikeperch) OR (pilchard) OR (pilotfish) OR (“pilot fish”) OR (platichthys) OR (plaice) OR (pleuronectes) OR (pollan) OR (Pollack) OR (Pollock) OR (ponyfish) OR (porbeagle) OR (pout) OR (pouting) OR (ray) OR (ribbonfish) OR (rigg) OR (rockfish) OR (rosefish) OR (sablefish) OR (sailfish) OR (salmon) OR (salmo) OR (sandeel) OR (sardine) OR

(sardina) OR (sardinella) OR (scabbardfish) OR (scomber) OR (scophthalmus) OR (scorpionfish) OR (“sea bass”) OR (seabass) OR (seabream) OR (“sea bream”) OR (seriola) OR (sheatfish) OR (“shi drum”) OR (sild) OR (sillago) OR (skipjack) OR (smelt) OR (smooth hound) OR (“smooth-hound”) OR (snapper) OR (snook) OR (sole) OR (solea) OR (sparidae) OR (sparus) OR (sparling) OR (spearfish) OR (sprat) OR (sprattus) OR (“St Peter’s fish”) OR (stargazer) OR (stingray) OR (stizostedion) OR (sturgeon) OR (“surgeon fish”) OR (trachurus) OR (swordfish) OR (tailor) OR (tench) OR (theragra) OR (thunnus) OR (tilapia) OR (tinca) OR (threadfin) OR (triggerfish) OR (trisopterus) OR (trout) OR (tubefish) OR (tuna) OR (turbot) OR (tusk) OR (walleye) OR (weever) OR (whitebait) OR (whiting) OR (wrasse) OR (yellowtail))

AND NOT

((“in vitro”) OR (“in-vitro”) OR (“challenge study”) OR (“essential oil*”) OR (attribution) OR (biofilm*) OR (“plant extract”) OR (“extracts”) OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR (“feed supplement*”))

#string 4

((“microbial quality”) OR (“microbial safety”) OR (“microbiological quality”) OR (“microbiological safety”) OR (analyses) OR (analysis) OR (concentration) OR (contamination) OR (count*) OR (detection) OR (enumeration) OR (incidence) OR (investigation) OR (occurrence) OR (presence) OR (prevalence) OR (sampling) OR (survey) OR (abundance) OR (intensity))

AND

((Cryptocotyle) OR (C. lingua) OR (Opisthorchis) OR (O. felineus) OR (Methorchis) OR (Pseudamphistomum) OR (P. truncatum) OR (Dibothriocephalus) OR (Diphyllbothrium) OR (Bolbosoma) OR (Corynosoma) OR (Myxosporidia) OR (Kudoa))

AND

((meal) OR (meals) OR (food) OR (foods) OR (“buffet meal*”) OR (“complex food”) OR (“frozen meal*”) OR (multi-ingredient) OR (“multi ingredient”) OR (ready-to-eat) OR (RTE) OR (“ready meal”) OR (“ready prepared”) OR (“ready to eat”) OR (“under vacuum”) OR (composite*) OR (convenience) OR (cured) OR (dip) OR (dips) OR (dish) OR (dishes) OR (dressing*) OR (dumpling*) OR (fermented) OR (filling) OR (gravy) OR (macerated) OR (marinad*) OR (marinate*) OR (mayonnaise) OR (pasta) OR (pizza) OR (pickled) OR (preserved) OR (pudding*) OR (puree*) OR (salsa) OR (salsas) OR

(salted) OR (sandwich*) OR (sashimi) OR (ceviche) OR (sauce*) OR (smoked) OR (snack) OR (snacks) OR (soup) OR (soups) OR (stew*) OR (surimi) OR (sushi) OR (topping*) OR (chowder))

AND NOT

((("in vitro") OR ("in-vitro") OR ("challenge study") OR ("essential oil*") OR (attribution) OR (biofilm*) OR ("plant extract") OR ("extracts") OR (feed) OR (livestock) OR (sanitiser) OR (sanitizer) OR (spiked) OR ("feed supplement*"))

i. Type of publication (primary research articles)

Filter by document types 'Article', 'Review' and "Undefined"

ii. Language (English, Spanish, French, Portuguese, undefined)

Filter by languages 'English', 'Spanish', 'French', 'Portuguese' and "Undefined"

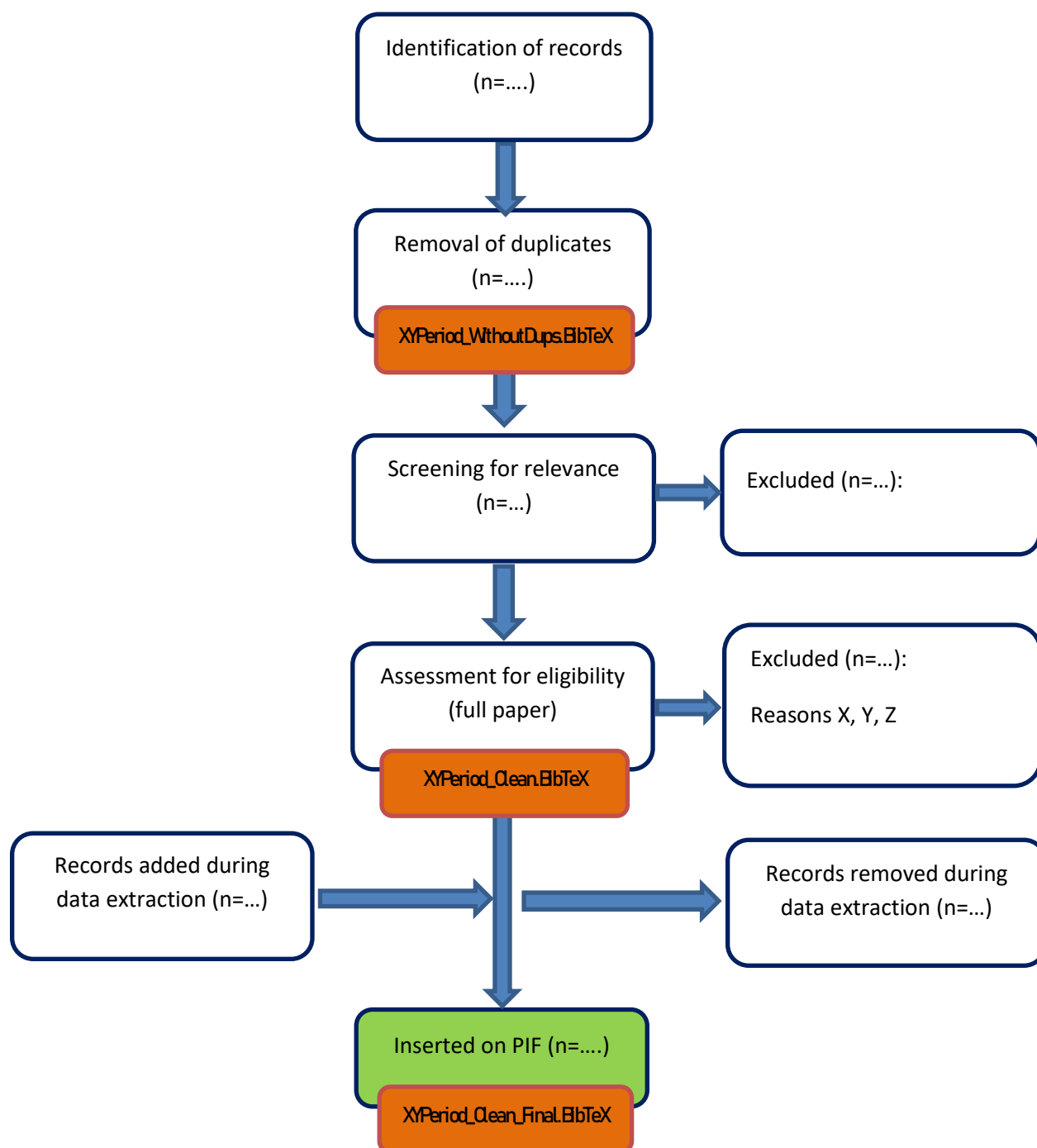
iii. Year of publication (not date of database insertion)

Filter by 'year' (SciELO only filters by year of publication)

Save results as OtherParasites2010-2023_Scielo
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Annex 3: PRISMA chart template

Description: Template of the PRISMA chart to be used to register the flow of literature records along the different phases of the systematic review linked to the PIF database. For every systematic review, three BibTeX files containing records post-deduplication, post-eligibility assessment and post-insertion will be uploaded on the Zenodo community.



Annex 4: PIF food categorisation system

Description: Food categorisation structure implemented in the PIF database

Food category	Food subcategory	Food class	Food subclass	Food class specie
Composite dishes (A03VA)	Sandwiches, pizza and other stuffed bread-like cereal products (A03YY)	Sandwich and sandwich-like dishes (A03YZ)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Pizza and pizza-like dishes (A03ZN)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Savoury pies and tarts (A0CEN)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Finger food (A040C)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
	Pastas and rice (or other cereal) – based dishes (A040M)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)		
	Dishes excluding pasta or rice dishes, sandwiches and pizza (A03VC)	Meat based dishes (A03VV)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Fish and seafood based dishes (A03XJ)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Egg based dishes (A03YJ)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Potato based dishes (A03VD)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Legumes based dishes (A03VM)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Mushroom based dishes (A03YS)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)	
		Vegetable based dishes (A03XX)	Raw (#F28.A07HS) Cooked (#F28.A0BA1)	

		NA (-)
	Undefined dishes (A03VC)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)
Soups (A041L)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) Dried (#F28.A07KG) NA (-)	
Salads (A042B)	Mixed vegetable salad (A042D)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)
	Prepared mixed egg/meat/fish/vegetable salad (A042M)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)
	Fruit salad (A01QG)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)
Spoonable desserts and ice creams (A0C68)	Water-based sweet desserts (A04PD)	
	Dairy ice creams and similar (A02PZ)	Raw (#F28.A07HS) Pasteurised (#F28.A07HV) UHT (#F28.A07HY) NA (-)
	Other desserts spoonable (A04NS)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) NA (-)
UndefinedC (A03VA)	Raw (#F28.A07HS) Cooked (#F28.A0BA1) Dried (#F28.A07KG) NA (-)	
Aquatic based food (-)	Crustaceans (A02FD)	Freshwater crustaceans (A02FE) Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Crabs, sea-spiders (A02FL)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Lobsters, spiny-rock lobster (A0F9Z)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	King crabs, squat-lobsters (A0FAA)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS)

		Cooked (#F28.A0BA1) NA (-)	
	Shrimps and prawns (A02FX)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Krill, planktonic crustaceans (A02FM)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Miscellaneous marine crustaceans (A02FJ)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
Molluscs (A02GM)	Freshwater molluscs (A02HY)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Abalones, winkles, conchs (A02GS)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Oysters (A02HG)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Mussels (A02HF)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Scallops, pectens (A02HN)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Clams, cockles, arkshells (A02GZ)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Squids, cuttlefishes, octopuses (A02HZ)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)	
	Miscellaneous marine molluscs (A0FAB)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS)	

		Cooked (#F28.A0BA1) NA (-)
Other marine invertebrate (-)	Sea-squirts and other tunicates (A02GN)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Sea urchins and other echinoderms (A02GP)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Jellyfishes and similar (A02GY)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Undefined marine invertebrate (-)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
Fish (meat) (A026V)	Freshwater fish (A026X)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Diadromous fish (A028E)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Marine fish (A029R)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Undefined fish (A026V)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Structured/textured fish meat products or fish paste (A0EYV)	
Processed or preserved fish (including processed offal) (A02KB)	Fermented fish (A16FA)	
	Marinated/pickled fish (A0F0P)	
	Dried fish (A02JP)	

	Canned/jarred fish (A0EYR)	
	Smoked fish (A0EYS)	
	NA (A02KB)	
Offal (-)	Seafood offal (A16FR)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Fish liver (A02EJ)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Fish roe (A02EM)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Other fish offal (A02FB)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
Algae and prokaryotes organisms (A00VA)	Green algae (A00VB)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Red algae (A00VE)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Brown algae (A00VK)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Other Algae (A0DCP)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
	Micro-phyte (A04LX)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1) NA (-)
UndefinedS (A0EZQ)	Raw (#F28.A07HS) Pre-cut (#F28.A07KS) Cooked (#F28.A0BA1)	

Fermented
(#F28.A0CQZ)
Textured (#F28. A07LM)
Smoked (#F28.A07JV)
NA (-)

Abbreviations

Composite: UndefinedC: Undefined composite foods that do not fit the other ‘Composite’ subcategories; **Seafood:** UndefinedS: Undefined seafood that do not fit the other ‘Seafood’ subcategories.

Annex 5: Categorisation system of methods for fish parasites (based on Anisakids)

Sample Preparation

Type of preparation essay	Preparation essay and references
Press/UV	<ol style="list-style-type: none"> 1. NF EN ISO 23036-1 (2021) 2. Karl et al., 1993 3. Other
Artificial digestion	<ol style="list-style-type: none"> 1. NF EN ISO 23036-2 (2021) 2. CODEX STAN 244-2004 3. World Health Organisation, 2003 4. Other
Incubation at 15°C overnight	<ol style="list-style-type: none"> 1. Shamsi et al. 2016
DNA extraction	<ol style="list-style-type: none"> 1. REDExtraction-N-Amp tissue PCR Kit (Mossali et al., 2010) 2. Wizard Genomic DNA Clean-Up System (Lopez and Pardo, 2010) 3. Wizard Genomic DNA Purification Kit (Lopez and Pardo, 2010 ; Valentini et al., 2006 and Mattiucci et al., 2003) 4. Modified Wizard Genomic DNA Purification Kit (Lopez and Pardo, 2010) 5. QIAmp DNA Blood Mini Kit (Lopez and Pardo, 2010) 6. QIAamp DNA Mini Kit (Umehara et al., 2008) 7. DNeasy blood and tissue kit (Paoletti et al., 2018) 8. NaCl method (Lopez and Pardo, 2010) 9. Phenol chloroform method (Lopez and Pardo, 2010) 10. method of Sodium Dodecyl Sulphate(SDS)/proteinase K treatment (Fang et al., 2011 and Hu et al., 2001) 11. The DNA was extracted from 300 mg of fish muscle tissues and mixtures fish-parasite (Espiñeira et al. 2010) 12. Other DNA extraction method
No preparation	
Other	Specify :

Sample Detection (EssayDet)

Type of detection essay	Detection essay and references	Cutoff/ molecular target (and references)
Naked eye	1. Gay et al. 2019	
Candling table	1. Levsen et al. 2005 2. Gay et al. 2019	
Quantitative PCR (qPCR)/ real time PCR (rtPCR)		Genes used for qPCR : 1. ITS-1 (Mossali et al., 2010) 2. ITS-2 (Fang et al., 2011) 3. ARNr 18S (Mossali et al., 2010) 4. COX2 (used for processed products) (Lopez and Pardo, 2010) 5. Other
Automatic nematode identification system	1. Sivertsen et al. 2012	
Other	Specify:	

Sample Enumeration (Essay Enum)

Type of enumeration essay	Enumeration essay and references	Cutoff/ molecular target (and references)
Naked eye		
Candling table		
Molecular	1. Quantitative PCR (qPCR)/ real time PCR (rtPCR) 2. Quantitative fluorescence PCR (Fang et al. 2011) 3. Other	Genes used for qPCR : 1. ITS-1 (Mossali et al., 2010) 2. ITS-2 (Fang et al., 2011) 3. ARNr 18S (Mossali et al., 2010) 4. COX2 (used for processed products) (Lopez and Pardo, 2010) 5. Other
Other	1. Specify:	

Sample Infectivity (Essay Infectivity)

Type of infectivity essay	Infectivity essay and references
Staining	<ol style="list-style-type: none"> 1. Malachite green staining and microscopic examination (Podolska et al., 2019) 2. Exposure of Anisakidae to different intensity of the fluorescent emission was rated in arbitrary units as maximum, medium, slight, or no fluorescence (Vidacek et al., 2010)
Immunology	<ol style="list-style-type: none"> 1. Dot blot using rabbit anti-A. simplex crude extract polyclonal antibody and rabbit anti-recombinant (r)Ani s 4 polyclonal antisera (Carballeda-Sangiao et al., 2016) 2. Anti Ani s 4 and IgE western blotting (Rodriguez-Mahillo et al., 2007)
Microscopy	<ol style="list-style-type: none"> 1. Optical microscopy observation (Sanchez-Alonso et al., 2021) 2. Scanning electron microscopy (SEM) observation. (Tejada et al., 2006) 3. Environmental scanning electron microscopy (ESEM) observation. (Tejada et al., 2006)
Metabolism	<ol style="list-style-type: none"> 1. Assessment of the oxygen consumption rate (OCR) of Anisakis larvae during various mitochondrial respiration states (Sanchez-Alonso et al., 2019) 2. Observation of mobility by flexion stimulation with forceps and needle (EFSA, 2010) 3. Agar penetration test (Arizono et al., 2012)
RT-PCR	<ol style="list-style-type: none"> 1. Łopieńska-Biernat et al.,2020
Other	Specify :

Sample Identification

Type of identification essay	Identification essay and references	Cutoff/ molecular target (and references)
Morphological identification	<ol style="list-style-type: none"> 1. Naked eye 2. Microscopy (NF EN ISO 23036-2 (2021)) 3. Other <p><i>Allows to identify up to the genus of the anisakids According to the criteria of Berland (1961), Huang & Bussieras (1988) and Möller (1989)</i></p>	
Biochemical methods	<ol style="list-style-type: none"> 1. MEE (Multilocus Enzyme Electrophoresis)/ MEE/ isoenzyme typing (Mattiucci and Nascetti, 2008) 2. ELISA (enzyme-linked immunosorbent assay) -> antigene Ani s 7 (Xu et al., 2010) 3. Other 	
Molecular method	<ol style="list-style-type: none"> 1. PCR -> Specify the percentage of individuals whose PCR has to be carried out 	<p>Genes used for PCR:</p> <ol style="list-style-type: none"> 1. mtDNA cytb (mitochondrial gene encoding cytochrome b) (Mattiucci et al., 2003) 2. COX 1 (code for mitochondrial cytochrome oxidase 1) (Blouin, 2002) 3. COX 2 (code for mitochondrial cytochrome oxidase 2) (Valentini et al., 2006) 4. ssrRNA (small subunit ribosomal RNA) (Hu et al., 2001) 5. IsrRNA (large subunit ribosomal RNA) (Hu et al., 2001) 6. ITS-1, Internal transcribed spacer 1 7. ITS-2, Internal transcribed spacer 2

	8. Other ribosomal DNA sequence
2. PCR-RFLP	1. ITS-1 (Espíñeira et al. 2010) 2. Other
3. PCR-SSCP	1. ITS-2 rDNA (Gasser et al. 1997) 2. Other
4. PCR-multiplex	1. APE1 (Umehara et al. 2008) 2. APE2 (Umehara et al. 2008) 3. Other
5. Quantitative PCR (qPCR)/ real time PCR (rtPCR)	1. ITS-1 (Mossali et al., 2010) 2. ITS-2 (Fang et al., 2011) 3. ARNr 18S (Mossali et al., 2010) 4. COX2 (used for processed products) (Lopez and Pardo, 2010; Paoletti et al., 2018) 5. Other
6. Post-qPCR (High Resolution Melting)	1. ITS-1 (Cavallero et al., 2014) 2. Other
7. PCR + Sanger	1. KCNE1 (Harismendy et al., 2009) 2. KCNE2 (Harismendy et al., 2009) 3. KCNE3 (Harismendy et al., 2009) 4. KCNE4 (Harismendy et al., 2009) 5. KCNH2 (Harismendy et al., 2009) 6. SCN5A (Harismendy et al., 2009) 7. Other
8. Species specific PCR	1. ITS-1 (D'amelio et al., 2000) 2. ITS-2 (D'amelio et al., 2000) 3. 5.8S (D'amelio et al., 2000) 4. Other
9. Other	
Other	Specify

Annex 6 : List of fish species

AQUACULTURE

SALTWATER	Salmon	<i>Salmo salar</i>
	Rainbow trout	<i>Oncorhynchus mykiss</i>
	Turbot	<i>Scophthalmus maximus</i>
	Atlantic halibut	<i>Hippoglossus hippoglossus</i>
	Cod	<i>Gadus morhua</i>
	Sea bass	<i>Dicentrarchus labrax</i>
	Sea bream	<i>Sparidae</i>
	Gilthead sea bream	<i>Sparus aurata</i>
	Tuna	<i>Thunnus spp.</i>
	Meagre	<i>Argyrosomus regius</i>
FRESHWATER	Common Carp	<i>Cyprinus carpio</i>
	Rainbow trout	<i>Oncorhynchus mykiss</i>
	Brown trout	<i>Salmo trutta</i>
	Tench	<i>Tinca tinca</i>
	European Eel	<i>Anguilla anguilla</i>
	Pikeperch	<i>Stizostedion lucioperca</i>
	Greater amberjack	<i>Seriola dumerili</i>

WILD CAUGHT

Herring	<i>Clupea harengus</i>
Atlantic Mackerel	<i>Scomber scombrus</i>
Horse mackerel	<i>Trachurus trachurus</i>
Blue whiting	<i>Micromesistius poutassou</i>
Monkish	<i>Lophius piscatorius</i>
Lumpfish	<i>Cyclopterus lumpus</i>
Ballan wrasse	<i>Labrus bergylta</i>
Cyprinidae	
European Flounder	<i>Platichthys flesus</i>
Flathead grey mullet	<i>Mugil cephalus</i>
Golden grey mullet	<i>Chelon auratus or Liza aurata</i>
Pouting	<i>Trisopterus luscus</i>
Senegalese sole	<i>Solea senegalensis</i>
Carp	<i>Cyprinus carpio</i>
Sprat	<i>Sprattus spp.</i>
Smelt	<i>Osmeridae</i>
Sardine	<i>Sardina pilchardus</i>
European Hake	<i>Merluccius merluccius</i>

Alaska Pollock	<i>Theragra chalcogramma</i>
Atlantic Cod	<i>Gadus morhua</i>
Albacore	<i>Thunnus albacares</i>
Yellowfin tuna	<i>Thunnus alalunga</i>
Rainbow trout	<i>Oncorhynchus mykiss</i>
Gilthead seabream	<i>Sparus aurata</i>
European seabass	<i>Dicentrarchus labrax</i>
Atlantic salmon	<i>Salmo salar</i>
European plaice	<i>Pleuronectes platessa</i>
European Anchovy	<i>Engraulis encrasicolus</i>
Red mullet	<i>Mullus barbatus</i>
Turbot	<i>Scophthalmus maximus</i>
Atlantic Horse mackerel	<i>Trachurus trachurus</i>
Skipjack tuna	<i>Katsuwonus pelamis</i>
Trout	<i>Salmo trutta</i>
Capellin	<i>Mallotus villosus</i>