

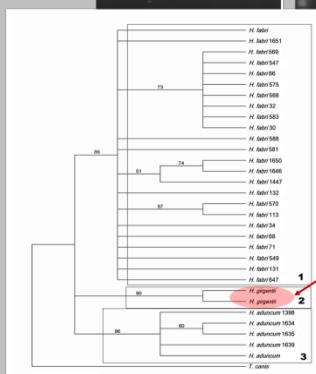
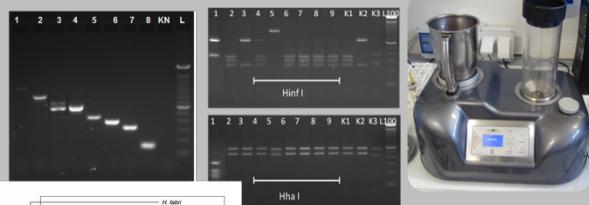
NATIONAL REFERENCE CENTRE FOR ANISAKIASIS - ITALY: ACTIVITIES AND STUDIES PERFORMED DURING 2018

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The National Reference Centre (NRC) for Anisakiasis (C.Re.N.A.) was established in the IZS of Sicily, in Palermo, by decree of 22 February 2005 of the Italian Ministry of Health and, the following year, based on Regulation (EC) N. 882/2004 Art. 33, was also recognized as National Reference Laboratory (NRL) for Anisakiasis.

METHODS			
PdP CRENA 01	Detection of Anisakis larvae	Circ Min San n.10/92+ Reg CE 2074/2005 All. II Sez.1	Rev 2 :2013
POS CRENA 02	Identification of Anisakis spp by PCR-RFLP	Internal method	Rev 6 :2014
POS CRENA 03	Detection and identification of Anisakidae nematodes (visual method+optical microscopy)	Internal method	Rev 3 :2013
POS CRENA 04	Detection and identification of Anisakidae nematodes (chloro peptic digestion)	Internal method	Rev 0 :2013
POS CRENA 05	Detection of Anisakidae DNA Anisakis and Pseudoterranova by Real Time PCR	Internal method	Rev 1 :2016
*POS CRENA 06	Identification of Pseudoterranova spp. larvae by sequencing	Internal method	Rev 0 :2015
PdP CRENA 07	Identification of Anisakidae larvae at the species level by multiplex PCR	ISS-EURLP MI-10 Rev.0 2013	Rev 0 :2015
POS CRENA 08	Detection of Anisakidae larvae by mechanical chloro peptic digestion system Trichineasy	Internal method	Rev 0 : 2016



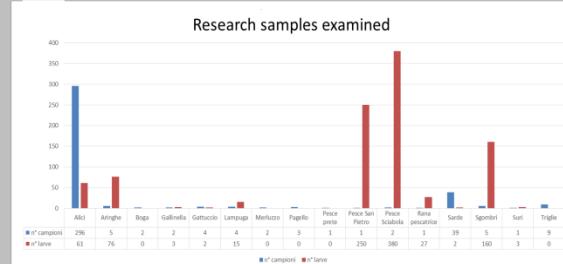
Scientific publications



Short communication
 Presence of Anisakis pegreffii in farmed sea bass (*Dicentrarchus labrax* L.) commercialized in Southern Italy: A first report

Gustavo Cammilleri¹, Antonella Costa², Stefania Graci¹, Maria Drussilla Buscemi¹, Rosaria Collura¹, Antonio Vella¹, and Vincenzo Ferrantelli¹
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Total analysis during 2018

Sample type	Anisakis larvae visual inspection	Anisakidae larvae visual inspection	Chloro-peptic digestion Trichineasy
Osteichthyes	402	402	402
Fish fillets	20	20	20
Canned fish	41	41	41

N. Larvae Morphological identification	N. Larvae PCR-RFLP analysis	N. Larvae Real-time PCR	
		PCR-Multiplex	PCR
2465	1184	5	104

Ring test: Anisakis larvae detection

18 partecipants:
 • 17 official control IZSs laboratories
 • European Union Reference Laboratory for Parasites (EURLP-ISS)

Matrix: fresh water farmed fish fillets
 Item: *Anisakis* larvae
 N. of samples: 5 for each partecipant (2 negative and 3 artificially infested by 2 larvae)
 Result evaluation: qualitative

Results: 18 labs reported correct results

Ring test: molecular identification of *Anisakis* spp. larvae by PCR-RFLP

5 partecipants:
 • 4 official control IZSs laboratories
 • European Union Reference Laboratory for Parasites (EURLP-ISS)

DNA samples of *Anisakis* spp: 3 for each partecipant (*A. pegreffii*, *A. simplex* s.s., *A. pegreffii*)

Results: all labs reported correct results