Figure S1. Sorensen similarity indices (qualitative and quantitative) for parasite assemblages between fishing ground on Catalan coast.

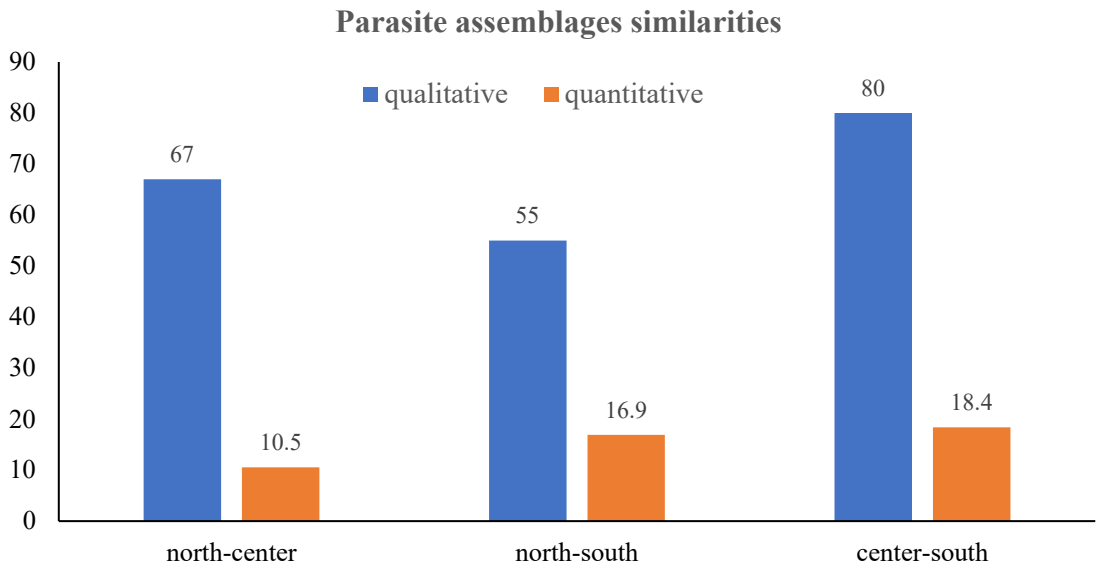


Figure S2. Macroparasites identified in hake (*Merluccius merluccius*) in fishing grounds off the Catalan coast. A) Adult of *Anthocotyle merluccii* Van Beneden & Hesse, 1863 (Monogenea), in toto and stained with Semichon´s acetocarmin, scale bar: 1 mm. B) Adult of *Aporocotyle spinosicanalis* Williams, 1958 (Digenea), in toto and stained with Semichon´s acetocarmin, scale bar: 1 mm. C) Male of *Acanthocephaloides propinquus* (Dujardin, 1845) Meyer, 1933 (Acanthocephala), in vivo, scale bar: 0.5 mm. D) Females of *Lernaeocera* sp. (Copepoda) attached to gills, in vivo, scale bar: 5 mm. E) Larva III of Anisakidae (Nematoda), in vivo, scale bar: 1 mm. F) Adults of *Clestobothrium crassiceps* (Rudolphi, 1819) Lühe, 1899 (Cestoda), in vivo, scale bar: 1 mm. G) Plerocercoide larva of Tetraphyllidea (Cestoda), in toto and stained with Semichon´s acetocarmin, scale bar: 0.1 mm.

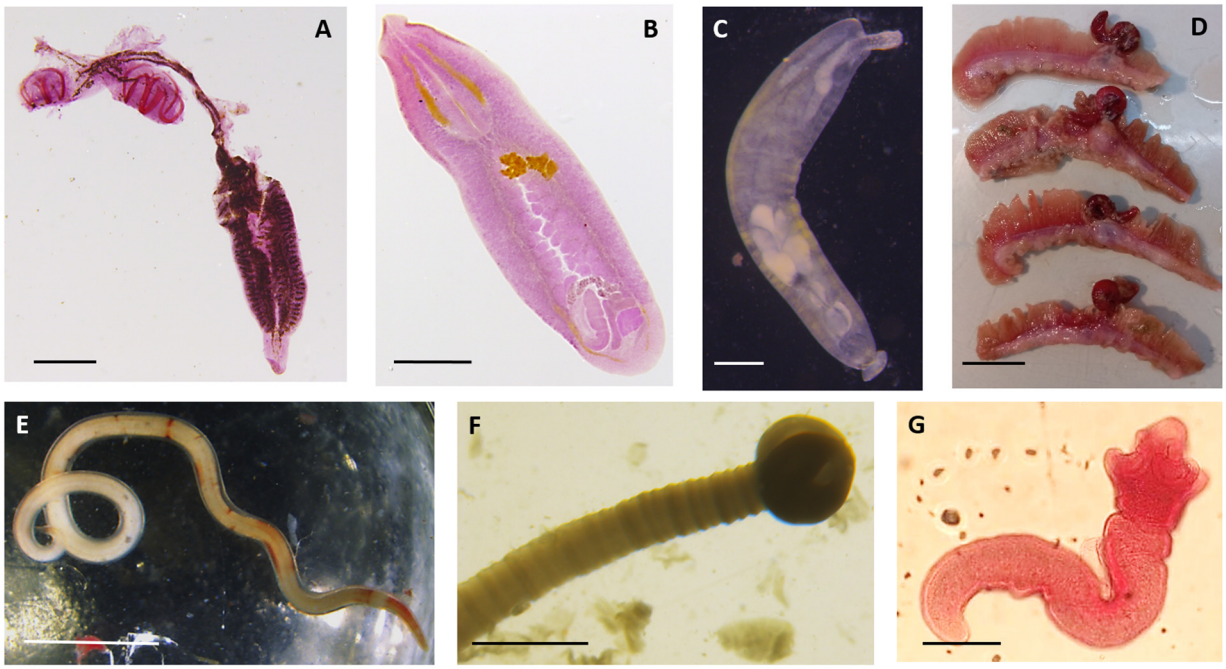


Table S1: ANOVA test for the analyses of length, weight and gonadosomatic index of the studied hake individuals.

Length

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 360.7 | 45.08 | <0.0001 |
| Within Groups | 27 | 108.0 | | |

Weight

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 82594 | 23.10 | <0.0001 |
| Within Groups | 27 | 48280 | | |

Gonadosomatic index

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 1.695 | 10.30 | 0.0005 |
| Within Groups | 27 | 2.220 | | |

Table S2: ANOVA test for the biochemical determinations analyzed for the studied hake individuals.

Gonads

BChE

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 1.504 | 5.7956 | 0.00829 |
| Within Groups | 26 | 3.374 | | |

PChE

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 1.5261 | 6.047 | 0.00721 |
| Within Groups | 25 | 3.1548 | | |

Muscle

PChE

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Intercept | 1 | 446.94 | 15.3831 | 0.0005726 |
| Between Groups | 2 | 305.72 | 5.2612 | 0.0120606 |
| Covariable (length) | 1 | 168.92 | 5.8141 | 0.0232605 |
| Within Groups | 26 | 755.41 | | |

pNPA

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 2.408 | 6.032 | 0.00683 |
| Within Groups | 27 | 5.388 | | |

Brain

aNB

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 613.05 | 5.3606 | 0.01095 |
| Within Groups | 27 | 1543.88 | | |

Liver

aNB

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Intercept | 1 | 24.0 | 0.1364 | 0.71517 |
| Between Groups | 2 | 1009.8 | 2.8695 | 0.07631 |
| Covariable (length) | 1 | 473.8 | 2.6931 | 0.11383 |
| Within Groups | 24 | 4222.8 | | 0.14659 |

LPO

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Between Groups | 2 | 1.1166 | 6.4475 | 0.005321 |
| Within Groups | 26 | 2.2514 | | |

EROD

| Source of Variation | df | Sum Sq | F | P-value |
|---|---|---|---|---|
| Between Groups | 2 | 1.0642 | 3.876 | 0.03478 |
| Within Groups | 24 | 3.2947 | | |