

1 **Supporting information 1 :**

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3 **Median number of groups grouped by the least-squares method in a population-**
4 **based experiment:**

5 Median and interquartile range of DHA intake among the DHA-low and DHA-high
6 groups categorized based on the minimum *P*-value method

Outcomes	Groups	Median	<i>P</i> ₂₅	<i>P</i> ₇₅
Metastasis and recurrence	DHA-low (mg/day)	9.38	5.17	14.37
	DHA-high (mg/day)	40.49	27.59	61.63
All-cause mortality	DHA-low (mg/day)	9.01	5.15	14.12
	DHA-high (mg/day)	38.24	27.03	59.61
Cancer-specific death	DHA-low (mg/day)	14.01	6.81	23.53
	DHA-high (mg/day)	93.92	73.70	138.64

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8 **Primer sequences :**

9 Primers used in the qPCR reactions were as follows:

10 E-cadherin-forward, 5'-TACACTGCCAGGAGCCAGA-3';

11 E-cadherin-reverse, 5'- TGGCACCCAGTGTCCGGATTA-3';

12 N-cadherin-forward, 5'-CCTGAAGCCAACCTTAAGTACTGAG-3';

13 N-cadherin-reverse, 5'- CTGTGCTTACTGAATTGTCTTGGG -3';

14 Vimentin-forward, 5'- TCAGAGAGAGGAAGCCGAAAAC-3';

15 Vimentin-reverse, 5'- GGAGTTTCTTCAAAAAGGCAATC-3';

16 β-actin-forward, 5'- CTCCATCATGAAGTGTGACG-3';

17 β-actin-reverse, 5'-TGCTTGCTGATCCACATCTG-3';

18 SNAIL1-forward, 5'-TTCTTCTGCGCTACTGCTGCG-3';

19 SNAIL1-reverse, 5'- GGGCAGGTATGGAGAGGAAGA-3';

20 SLUG-forward, 5'-CGCCTCCAAAAGCCAAAC-3';

21 SLUG -reverse, 5'-CGGTAGTCCACACAGTGATG -3';

22 ZEB1-forward, 5'- GGCATACACCTACTCAACTACGG-3';

- 23 ZEB1-reverse, 5'- TGGGCGGTGTAGAATCAGAGTC-3';
- 24 ZEB2-forward, 5'- AATGCACAGAGTGTGGCAAGGC-3';
- 25 ZEB2-reverse, 5'- CTGCTGATGTGCGAACTGTAGG-3';