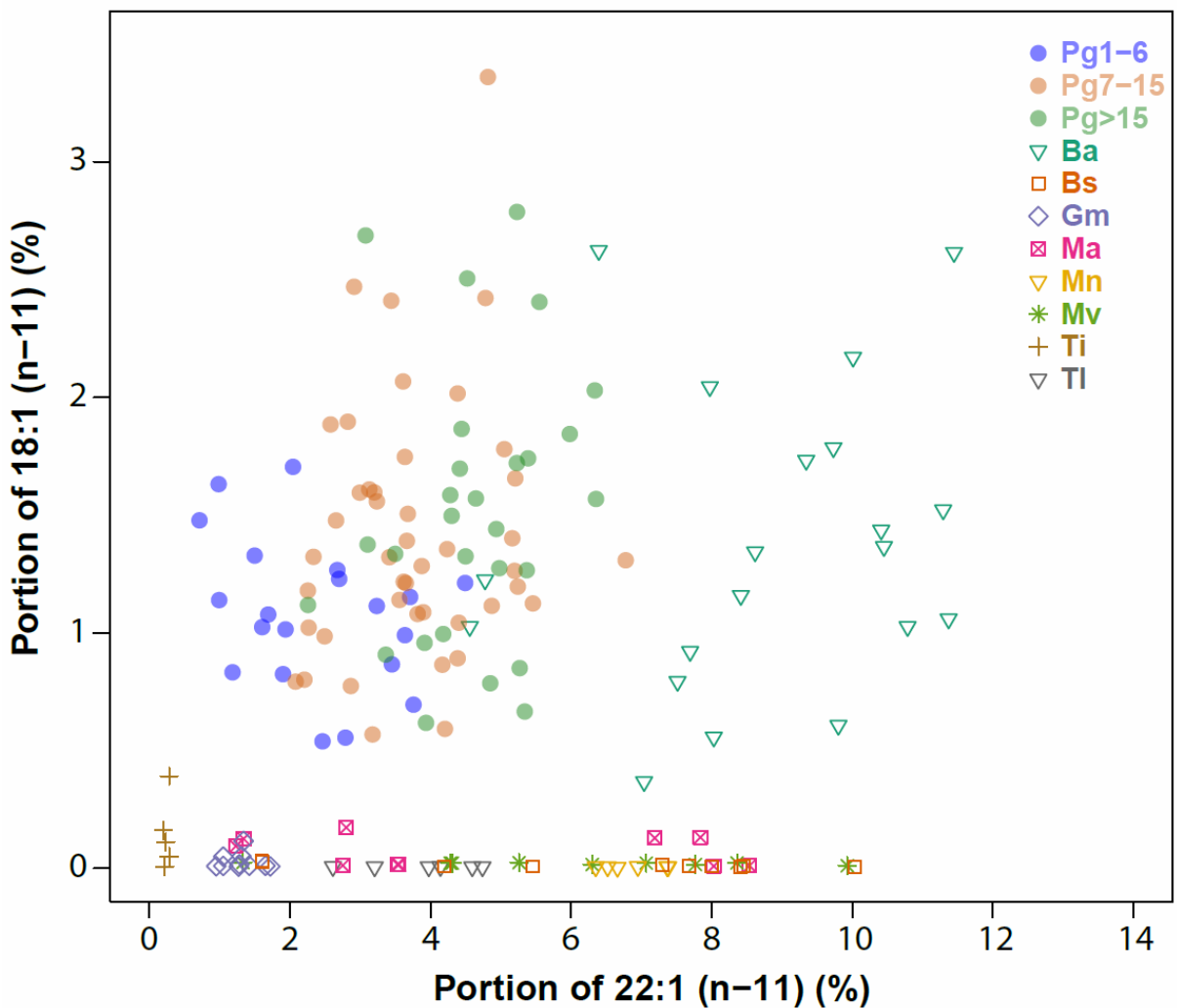


1 Supplementary information

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4 Two FAs, 18:1 (n-11) and 22:5 (n-3), were found in much higher levels in the two mammals
5 than in the prey organism, and this suggests that these FAs are products of endogenous
6 metabolism and not influenced in high degree by the diet. The 18:1(n-11) is a chain-
7 shortening product of 22:1(n-11), and 22:5(n-3) is an elongation product of 20:5(n-3). These
8 two FAs are removed from the CA analysis in Figure 2.

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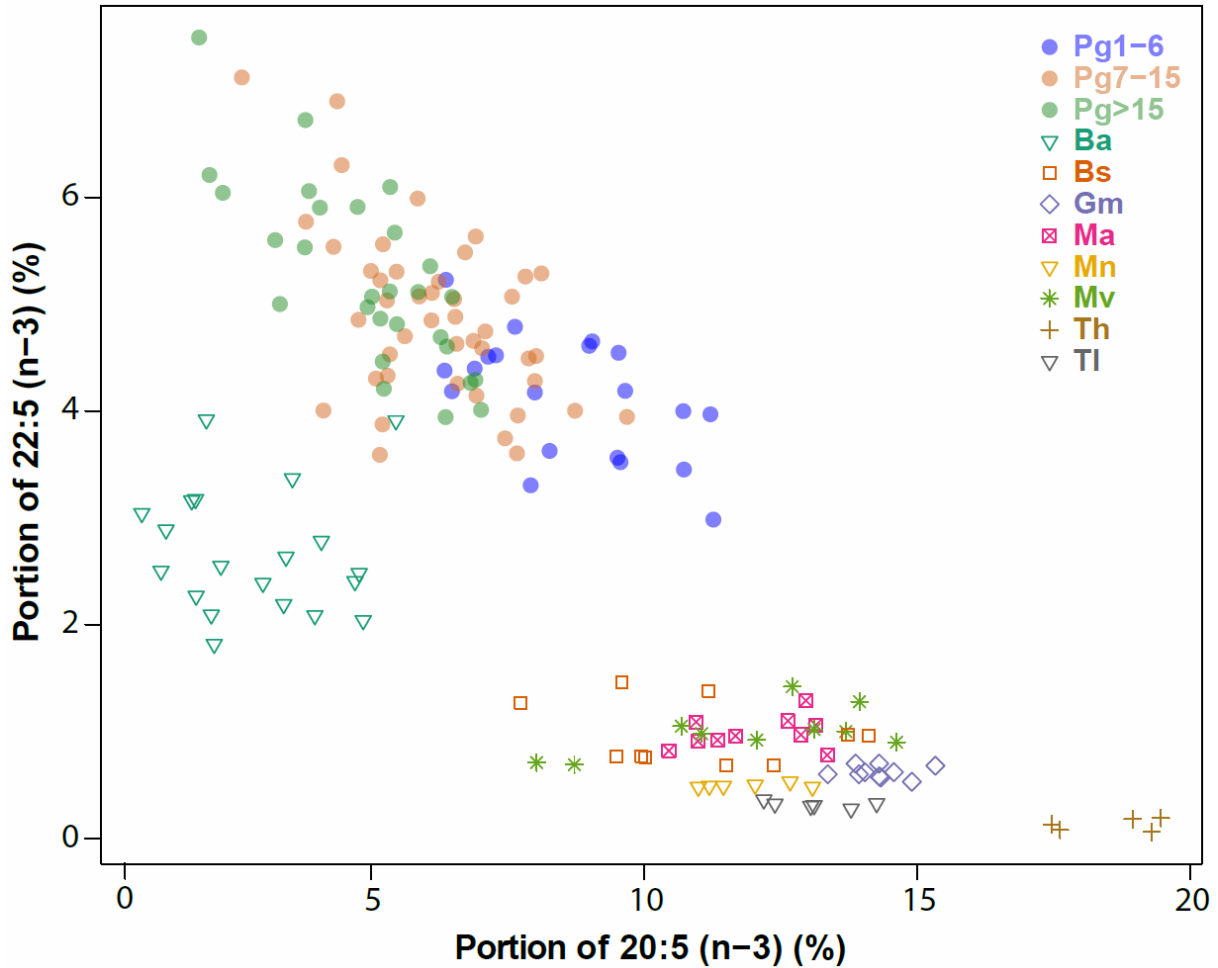


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13 **Figure S1.** Proportion of the long-chained MUFA, 22:1 (n-11) and its metabolish chain-
14 shortening products, 18:1 (n-11) for three age groups of harps seals (Pg), minke whales (Ba)
15 and the seven prey organisms: Polar cod (Bs), cod (Gm), haddock (Ma), *Meganctiphanes*

16 *norvegica* (Mn), capelin (Mv), *Thysanoessa* sp. (Th) and *Themisto libellula* (Tl). Species
17 codes refer to Table I.

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22 **Figure S2.** Proportion of the long-chain PUFA, 20:5 (n-3) and its metabolish elongation
23 product, 22:5 (n-3) for three age groups of harps seals (Pg), minke whales (Ba) and the seven
24 prey organisms: Polar cod (Bs), cod (Gm), haddock (Ma), *Meganyctiphanes norvegica* (Mn),
25 capelin (Mv), *Thysanoessa* sp. (Th) and *Themisto libellula* (Tl). Species codes refer to Table
26 I.

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