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| Table S1. Summary of global studies conducted on terrestrial mammalian carnivores. All values are presented in ng/g ww with dry weight indicated by asterisk (\*) and lipid weight unless otherwise indicated. Exceptions are noted and explained at the footnote of this table. Multiple records for the same tissue-samples in the same species indicate sampling at different localities reported in the same paper. -: data not reported, ND: not detected, LOD: limit of detection. | | | | | | | | | | | | | | | | | | | | | |
| **Species** | **Common Name** | **Location** | | **Tissue** | **p.p’-DDE** | **o.p’-DDD** | **p.p’-DDD** | **o.p’-DDT** | **p.p’-DDT** | **ΣDDTs** | **ΣPCBs** | **ΣCHLs** | **HCB** | **αHCH** | **βHCH** | **y-HCH** | **ΣHCHs** | **ΣChlordane** | **Dieldrin** | **Endrin** | **Reference** |
| **Canidae** | | | | | | | | | | | | | | | | | | | | | |
| *Canis familiaris* | Domestic dog | Japan | | B | - | - | - | - | - | - | (<0.07-0.3) | - | - | - | - | - | - | - | - | - | Mizukawa *et al.* (2013)b,c |
|  |  | Green land | | A | - | - | - | - | - | 167 | 2996 | - | 67 | - | - | - | 61 | 1164 | 531 | - | Sonne (2010)b |
| (18-358) | (936-6740) | (38-103) | (28-126.9) | (809-1658) | (13-948) |
|  |  |  | | L | - | - | - | - | - | 666 | 43111 (20188-62655) | - | ND | - | - | - | ND | 72798 (42550-86725) | 5111 | - |  |
| (284-1018) | (4000-8030) |
|  |  |  | | B | - | - | - | - | - | 29 | 1854 | - | 61 | - | - | - | ND | 770 | 415 | - |  |
| (3-74) | (943-3801) | (38-90) | (474-1414) | (149-654) |
| *Canis lupus* | Grey wolf | | Croatia | A | - | - | - | - | - | (0.2-2.9) | - | - | (0.17-2.19) | (<LOD-0.31) | (0.19-2.49) | - | (0.72-3.23) | - | - | - | Romanić *et al.* (2015)d,f |
|  |  | | Spain | Sp | 0.54 | - | - | 218 | 1028 | - | - | - | - | - | - | - | - | - | 15 | 3 | González-Barros *et al.* (2000)b,e |
|  |  |  | | L | 3500 | - | - | 89 | 47 | - | - | - | - | - | - | - | - | - | 6 | 8 |  |
|  |  |  | | M | 16 | - | - | ND | 4 | - | - | - | - | - | - | - | - | - | 3 | ND |  |
|  |  |  | | K | 1.33 | - | - | 292 | 2278 | - | - | - | - | - | - | - | - | - | 2067 | 26 |  |
|  |  |  | | Ksr | 48 | - | - | 29 | 46 | - | - | - | - | - | - | - | - | - | 107 | 11 |  |
| *Nyctereutes procyonoides* | Raccoon Dogs | Japan | | L | 28±58 (0.45-270) | - | 17±29 (<0.2-120) | - | 1.6±6.8 (<0.2-31) | 46±73 (0.45-290) | 200±370 (15-1700) | 4400±9100 (180-43000) | 4.5±13 (0.78-61) | 0.53±0.66 (<0.2-2.5) | 41±59 (5.4-250) | - | 41±59 (6.5-250) | - | - | - | Kunisue *et al.* (2008) |
|  |  |  | | L | 58±42 (5.3-150) | - | 150±240 (0.75-650) | - | 0.57±0.86 (<0.2-2.3) | 210±270 (6.4-800) | 390±410 (24-1200) | 8200±7600 (170-22000) | 2.7±2 (0.54-6.2) | 0.23±0.72 (<0.2-2.3) | 67±74 (6.3-230) | - | 67±74 (6.3-230) | - | - | - |  |
|  |  |  | | L | 18±18 (3.7-60) | - | 8.8±8.5 (1.2-27) | - | 2.1±4.1 (<0.2-12) | 29±25 (5.1-84) | 130±100 (38-350) | 8700±6300 (2000-20000) | 1.4±0.78 (0.57-2.5) | 0.29±0.24 (<0.2-0.61) | 94±68 (24-220) | - | 94±68 (25-220) | - | - | - |  |
|  |  |  | | F | 16±27 (1.0-82) | - | <0.2 (<0.2-0.62) | - | 3±3.7 (0.14-9.2) | 19±30 (1.2-92) | 240±170 (59-600) | 590±330 (210-1000) | 1.1±0.48 (0.65-2.0) | 0.25±0.21 (<0.2-0.65) | 62±51 (6.4-150) | - | 62±51 (6.5-150) | - | - | - |  |
|  |  |  | | B | - | - | - | - | - | - | (0.02-1.1) | - | - | - | - | - | - | - | - | - | Mizukawa *et al.* (2013)b,c |
|  |  |  | | L | - | - | - | - | - | (0.8–33) | (26–330) | (33–1200) | (0.2–1.0) | - | - | - | (1.2–45) | - | - | - | Yamamoto *et al.* (2012)d |
| *Vulpes lagopus* | Arctic Foxes | Norway | | L | - | - | - | - | - | 98 (35-203) | 5486 (1535-13603) | - | - | - | - | - | - | 8656 (1406-30850) | - | - | Sonne (2010)b |
|  |  |  | | L | (1-19633) | - | - | - | - | - | (76-53129) | (121-48722) | (9-1082) | - | (3.1-527) | - | - | - | - | - | Andersen *et al.* (2015)c |
|  | Females | Alaska | | B | - | - | - | - | - | - | 1.93±1.94 (0-4.67) | - | - | - | - | - | - | - | - | - | Harley *et al.* (2016) |
|  | Males |  | | B | - | - | - | - | - | - | 0.65±1 (0-2.47) | - | - | - | - | - | - | - | - | - |  |
|  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Species** | **Common Name** | **Location** | | **Tissue** | **p.p’-DDE** | **o.p’-DDD** | **p.p’-DDD** | **o.p’-DDT** | **p.p’-DDT** | **ΣDDTs** | **ΣPCBs** | **ΣCHLs** | **HCB** | **αHCH** | **βHCH** | **y-HCH** | **ΣHCHs** | **ΣChlordane** | **Dieldrin** | **Endrin** | **Reference** |
| *Vulpes vulpes* | Red fox | Spain | | P | <0.01 | - | - | - | - | - | 7.68±4.36 | - | - | - | - | - | - | - | - | - | Mateo *et al.* (2012)g |
|  |  |  | | L | 4.1±1.33 | - | 1.43±0.50 | - | - | - | 1321±402 | - | 0.79±0.36 | - | 0.42±0.16 | - | - | - | - | - |  |
|  |  |  | | A | 100±31 | - | 0.05±0.05 | - | 0.47±0.33 | - | 4579±1318 | - | 5.51±1.34 | 0.28±0.17 | 27.4±11.39 | 0.6±0.22 | - | - | - | - |  |
|  |  | Japan | | B | - | - | - | - | - | - | (100-680) | - | - | - | - | - | - | - | - | - | Mizukawa *et al.* (2013)b,c |
|  |  | Norway | | P | (0.02-0.08) | - | - | - | - | - | (6.8-8.8) | (3.4-5.6) | (0.34-0.82) | - | (0.12-0.15) | - | - | - | - | - | Polder *et al.* (2009)c |
| **Felidae** | | | | | | | | | | | | | | | | | | | | | |
| *Acinonyx jubatus* | Cheetah | Belgium | | P |  |  |  |  |  | 7.3±2.11 (3.75-7.51) | 16.17±4.77 (14.91-23.73) | 0.43±0.16 (0.29-0.61) | 0.13±0.02 (0.10-0.14) |  |  |  | 0.48±0.12 (0.41-0.65) |  |  |  | Malarvannan *et al.* (2020) |
| *Felis catus* | Domestic cat | Spain | | L | 37.3±37.3 | - | 0.93±0.93 | - | - | - | 221±173 | - | 0.43±0.31 | - | 0.23±0.23 | - | - | - | - | - | Mateo *et al.* (2012)g |
|  |  |  | | A | 1079±922 | - | 3.35±3.35 | - | 16.31±13.77 | - | 1055±917 | - | 5.13±2.98 | <0.01 | 3.13±0.65 | 0.60±0.60 | - | - | - | - |  |
|  |  | Japan | | B | - | - | - | - | - | - | (0.04-16) | - | - | - | - | - | - | - | - | - | Mizukawa *et al.* (2013)b,c |
| *Lynx lynx* | Eurasian lynx | Sweden | | P | (0.05-0.13) | - | - | - | - | - | (1.2-3.1) | <LOD | (0.06-0.17) | - | (0.02-0.03) | - | - | - | - | - | Polder *et al.* (2009)c |
| *Lynx pardinus* | Iberian Lynx | Spain | | P | 1.33±0.48 | - | - | - | - | - | 0.42±0.27 | - | - | - | - | - | - | - | - | - | Mateo *et al.* (2012)g |
|  |  |  | | P | 0.31±0.31 | - | - | - | - | - | 0.82±0.82 | - | - | - | - | - | - | - | - | - |  |
|  |  |  | | L | 55.1±29.6 | - | <0.01 | - | - | - | 101±44 | - | 0.4±0.4 | - | 0.27±0.14 | - | - | - | - | - |  |
|  |  |  | | L | 25.9±18.4 | - | <0.01 | - | - | - | 37±28 | - | <0.01 | - | 1.12±0.52 | - | - | - | - | - |  |
|  |  |  | | A | 455±229 | - | <0.01 | - | <0.01 | - | 510±398 | - | 1.61±0.43 | <0.01 | 4.29±1.19 | <0.01 | - | - | - | - |  |
|  |  |  | | A | 740±234 | - | <0.01 | - | <0.01 | - | 259±29 | - | 2.29±0.87 | <0.01 | 6.34±4.71 | <0.01 | - | - | - | - |  |
| *Panthera leo* | African lion | South Africa | | P |  | - | - | - | - | 0.27±0.33 (0.7-1.98) | 0.00±0.00 (0.00-0.03) | 0.01±0.01 (0.00-0.07) | 0.00±0.00 (0.00-0.03) | - | - | - | 0.04±0.09 (0.01-0.42) | - | - | - | Malarvannan *et al.* (2020) |
|  |  | Belgium | | P |  | - | - | - | - | 0.27±0.58 (0.14-1.65) | 0.51±1.13 (0.27-3.19) | 0.02±0.04 (0.02-0.11) | 0.03±0.02 (0.03-0.09) | - | - | - | 0.07±0.04 (0.04-0.15) | - | - | - |  |
| *Caracal caracal* | Caracal | South Africa | | B | 2.4±5.3 | - | 0.01±0.03 | 0.02±0.1 | 0.03±0.06 | 2.5±5.4  (0-31) | 4.3±5.9  (0.4-32) | 0.02±0.04 | 0.05±0.08 | 0.03±0.04 | 0.04±0.14 | 0.04-0.06 | 0.19-0.26  (0.11-1.7) | 0.03-0.13 | - | - | Leighton *et. al.* (2022) |
|  |  |  | | A | 212±378 | - | 1.4±3 | 0.89±2.3 | 3.8±4 | 221±382  (11-1684) | 369±378  (7.9-1272) | 0.03-0.09 | 1.2±1.9 | 0.2±0.26 | 1±1.4 | 5.3-11 | 7.1-12  (0.3-46) | 0.3-1.2 | - | - |  |
| *Panthera pardus pardus* | African leopard | South Africa | | S | 0.02±0.01 | 0.05±0.01 | 0.18±0.04 | ND | ND | 0.22±0.05  (0.14-.038) | - | - | 0.06±0.04 (0.02-0.17) | 0.1±0.06 (0.04-0.31) | ND | 0.06±0.02  0.03-0.11) | 0.17±0.07 (0.07-0.3) | 0.13±0.06 (0.05-0.3) | ND | 0.09±0.04 (0.14-0.19) | This study |
| **Hyenidae** | | | | | | | | | | | | | | | | | | | | | |
| *Crocuta crocuta* | Spotted hyena | South Africa | | P | - | - | - | - | - | 1.56±5.67 (0.18-16.89) | 0.03±0.13 (0.01-0.38) | 0.05±0.93 (0.01-2.77) | 0.04±0.04 (0.01-0.15) | - | - | - | 0.10±0.11 (0.05-0.42) | - | - | - | Malarvannan *et al.* (2020)h |

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| **Species** | **Common Name** | **Location** | **Tissue** | **p.p’-DDE** | **o.p’-DDD** | **p.p’-DDD** | **o.p’-DDT** | **p.p’-DDT** | **ΣDDTs** | **ΣPCBs** | **ΣCHLs** | **HCB** | **αHCH** | **βHCH** | **y-HCH** | **ΣHCHs** | **ΣChlordane** | **Dieldrin** | **Endrin** | **Reference** |

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| **Herpestidae** | | | | | | | | | | | | | | | | | | | | | | |
| *Herpestes ichneumon* | Egyptian mongoose | Spain | Plasma | 4.23±3.17 | - | - | - | - | - | 15.42±6.42 | - | - | - | - | - | - | - | | | - | - | Mateo *et al.* (2012)g |
|  |  |  | Liver | 19.3±6.9 | - | 7.72±5.37 | - | - | - | 486±256 | - | 0.08±0.03 | - | <0.01 | - | - | - | | | - | - |  |
|  |  |  | Fat | 276±125 | - | 1.67±1.67 | - | 3.29±0.61 | - | 789±292 | - | 2.91±0.34 | <0.01 | 2.55±0.51 | 1.05±0.36 | - | - | | | **-** | - |  |
| *Herpestes javanicus* | Javan Mongoose | Japan | Blood | - | - | - | - | - | - | (24-29) | - | - | - | - | - | - | | - | | - | - | Mizukawa *et al.* (2013)b,c |
|  | Females |  | Liver | 880 | - | ND | - | ND | 880 | 190 | 510 | 2.6 | ND | ND | - | <0.60 | ND | | | - | - |  |
|  | Males |  | Liver | 1390±1433 (180-3400) | - | ND | - | ND | 1390±1433 (180-3400) | 2065±2873 (200-6300) | 118±145 (9.4-330) | 1.1±0.7 (<0.3-1.8) | ND | ND | - | <0.60 | ND | | | - | - |  |
| **Mustelidae** | | | | | | | | | | | | | | | | | | | | | | |
| *Gulo gulo* | Wolverine | Norway | Plasma | (<LOD-0.02) | - | - | - | - | - | (1.7-3.6) | (0.05-0.06) | (0.33-0.39) | - | (0.04-0.07) | - | - | | - | | - | - | Polder *et al.* (2009)c |
| *Lutra lutra* | Eurasian otters | Spain | Liver | 130±66 | - | 24.5±11.2 | - | - | - | 3324±1399 | - | 28.6±18.1 | - | 1.13±0.57 | - | - | | - | | - | - | Mateo *et al.* (2012)g |
|  |  | England | Liver | 23300 | - | - | - | - | - | 60510 | - | - | - | - | - | - | | - | | 10400 | - | Mason & Macdonald (1994)b,e |
| *Meles meles* | Badger | Spain | Liver | 36.3 | - | 84.2 | - | - | - | 213 | - | <0.01 | - | 0.48 | - | - | | - | | - | - | Mateo *et al.* (2012)g |
|  |  |  | Fat | 738 | - | 13.18 | - | 9.86 | - | 924 | - | 1.27 | <0.01 | 17.1 | <0.01 | - | | - | | - | - |  |
|  |  | Japan | Blood | - | - | - | - | - | - | (<0.07-0.75) | - | - | - | - | - | - | | - | | - | - | Mizukawa *et al.* (2013)b,c |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |  |
| **Procyonidae** | | | | | | | | | | | | | | | | | | | | | | |
| *Procyon lotor* | Raccoon | Japan | Blood | - | - | - | - | - | - | (<0.07-2.6) | - | - | - | - | - | - | | - | | - | - | Mizukawa *et al.* (2013)b,c |
| **Ursidae** | | | | | | | | | | | | | | | | | | | | | | |
| *Ursus arctos* | Brown bear | Sweden | Plasma | <LOD | - | - | - | - | - | (0.2-0.34) | <LOD | (0.27-0.32) | - | (0.01-0.03) | - | - | | - | | - | - | Polder *et al.* (2009)c |
|  |  | Croatia | Fat | - | - | - | - | - | (0.08-1.19) | - | - | (0.08-2.25) | (<LOD-0.18) | (<LOD-0.59) | - | (0.20-1.72) | | - | | - | - | Romanić *et al.* (2015)d,f |
| **Viverridae** | | | | | | | | | | | | | | | | | | | | | | |
| *Genetta genetta* | Common genet | Spain | Liver | 754±661 | - | 33.9±15.5 | - | - | - | 2874±2685 | - | 0.43±0.11 | - | 1.06±0.47 | - | - | | - | | - | - | Mateo *et al.* (2012)g |
|  |  |  | Fat | 17531±15260 | - | 3.48±3.48 | - | 4.20±4.20 | - | 17326±15632 | - | 6.80±1.65 | 0.8±0.8 | 25.61±15.87 | 1.27±1.05 | - | | - | | - | - |  |
| *Paguma larvata* | Masked palm civet | Japan | Blood | - | - | - | - | - | - | (0.26-95) | - | - | - | - | - | - | | - | | - | - | Mizukawa *et al.* (2013)b,c |
|  |  |  | Liver | - | - | - | - | - | (84–1200) | (29–1700) | (47–590) | (0.3–1.3) | - | - | - | (1.1–44) | | - | | - | - | Yamamoto *et al.* (2012)d |

a Data from one individual, b Only mean values reported, c Range calculated from two individuals, d Only range reported, e Concentrations given in dry weight, g No range reported

Tissues represented: A=adipose tissue, B=whole blood, K=kidney, Ksr=kindey supra renal, L=liver tissue, M=muscle tissue, P=plasma, S=serum, Sp=spleen

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