

Supplementary Materials: Fish Reproduction Is Disrupted upon Lifelong Exposure to Environmental PAHs Fractions Revealing Different Modes of Action

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Table S1. Detailed concentration of individual PAHs in produced diets (ng·g⁻¹ food; mean ± SD; n = 4–7).

| | Ring # | PY | | | | HO | | | | LO | | | |
|--|--------|----------------|-------------------|--------------------|---------------------|----------------|------------------|-------------------|--------------------|----------------|------------------|-------------------|---------------------|
| | | Control | 0.3X | 1X | 3X | Control | 0.3X | 1X | 3X | Control | 0.3X | 1X | 3X |
| naphthalene | 2 | 6 ± 6 | 15 ± 7 | 56 ± 14 | 157 ± 74 | 4 ± 1 | 37 ± 6 | 120 ± 16 | 405 ± 73 | 3 ± 1 | 161 ± 21 | 315 ± 183 | 1110 ± 472 |
| acenaphthylene | 2 | 1 ± 0 | 11 ± 2 | 35 ± 6 | 114 ± 23 | 1 ± 0 | 3 ± 1 | 3 ± 1 | 13 ± 13 | 1 ± 0 | 15 ± 1 | 46 ± 2 | 136 ± 19 |
| acenaphthene | 2 | 2 ± 1 | 14 ± 12 | 29 ± 7 | 89 ± 24 | 27 ± 26 | 46 ± 23 | 74 ± 19 | 190 ± 17 | 23 ± 21 | 37 ± 26 | 67 ± 68 | 90 ± 30 |
| fluorene | 2 | 2 ± 1 | 14 ± 3 | 42 ± 8 | 137 ± 28 | 2 ± 1 | 34 ± 2 | 99 ± 8 | 312 ± 25 | 2 ± 1 | 79 ± 1 | 232 ± 2 | 677 ± 55 |
| dibenzo[b,d]thiophene | 2 | 2 ± 3 | 11 ± 1 | 34 ± 5 | 102 ± 26 | 0 ± 0 | 54 ± 3 | 166 ± 11 | 546 ± 54 | 0 ± 0 | 443 ± 8 | 1161 ± 18 | 3489 ± 208 |
| phenanthrene | 3 | 8 ± 4 | 95 ± 21 | 291 ± 60 | 895 ± 213 | 6 ± 3 | 152 ± 7 | 418 ± 32 | 1279 ± 51 | 6 ± 4 | 178 ± 7 | 492 ± 10 | 1438 ± 86 |
| anthracene | 3 | 1 ± 0 | 49 ± 13 | 159 ± 41 | 482 ± 165 | 0 ± 0 | 22 ± 1 | 70 ± 2 | 220 ± 10 | 0 ± 0 | 2 ± 1 | 4 ± 1 | 42 ± 54 |
| fluoranthene | 3 | 3 ± 3 | 130 ± 28 | 523 ± 182 | 1782 ± 353 | 2 ± 1 | 17 ± 1 | 44 ± 2 | 145 ± 18 | 2 ± 1 | 2 ± 2 | 1 ± 1 | 15 ± 17 |
| pyrene | 4 | 3 ± 3 | 112 ± 24 | 447 ± 160 | 1496 ± 311 | 1 ± 0 | 80 ± 3 | 227 ± 19 | 709 ± 64 | 2 ± 0 | 13 ± 2 | 18 ± 2 | 73 ± 28 |
| benzo[a]anthracene | 4 | 1 ± 0 | 171 ± 75 | 581 ± 221 | 1671 ± 763 | 0 | 57 ± 4 | 172 ± 11 | 543 ± 29 | 0 | 4 ± 1 | 14 ± 2 | 49 ± 28 |
| triphenylene + chrysene | 4 | 1 ± 0 | 215 ± 91 | 744 ± 290 | 2144 ± 1032 | ND | 108 ± 8 | 336 ± 21 | 1073 ± 79 | ND | 30 ± 1 | 98 ± 4 | 320 ± 62 |
| benzo[b]naphtho[2,1-d]thiophene | 4 | 5 ± 3 | 52 ± 26 | 156 ± 70 | 472 ± 230 | 0 | 56 ± 4 | 186 ± 8 | 573 ± 36 | 0 | 66 ± 1 | 194 ± 9 | 588 ± 30 |
| benzo[b]fluoranthene+benzo[k]fluoranthene+benzo[j]fluoranthene | 4 | 2 ± 1 | 273 ± 72 | 868 ± 220 | 2740 ± 674 | 2.4 | 32 ± 2 | 110 ± 8 | 363 ± 18 | 2.4 | 6 ± 0 | 20 ± 1 | 66 ± 7 |
| benzo[e]pyrene | 5 | 1 ± 0 | 109 ± 29 | 346 ± 86 | 1084 ± 286 | ND | 56 ± 3 | 173 ± 11 | 536 ± 26 | ND | 17 ± 0 | 52 ± 1 | 160 ± 10 |
| benzo[a]pyrene | 5 | 1 ± 0 | 118 ± 33 | 373 ± 95 | 1168 ± 346 | 0 ± 0 | ND | 108 ± 6 | 342 ± 10 | 0 ± 0 | ND | 4 ± 1 | 17 ± 3 |
| perylene | 5 | 1 ± 0 | 37 ± 9 | 121 ± 27 | 390 ± 83 | 0 ± 0 | ND | 56 ± 4 | 172 ± 14 | 0 ± 0 | ND | 5 ± 1 | 13 ± 1 |
| indeno(1,2,3-cd)pyrene | 5 | 0 ± 0 | 123 ± 41 | 349 ± 89 | 1188 ± 265 | ND | ND | ND | ND | ND | ND | ND | ND |
| dibenz(ah)anthracene + dibenz(ac)anthracene | 5 | 2 ± 2 | 32 ± 11 | 108 ± 43 | 301 ± 106 | 0.3 | ND | 34 ± 2 | 113 ± 6 | 0.3 | ND | 3 ± 1 | 11 ± 1 |
| benzo[ghi]perylene | 6 | 0 ± 0 | 87 ± 27 | 268 ± 67 | 893 ± 191 | 0 ± 0 | ND | 146 ± 10 | 481 ± 12 | 0 ± 0 | ND | 12 ± 0 | 42 ± 12 |
| Sum PAHs | | 34 ± 6 | 1670 ± 448 | 5532 ± 1383 | 17305 ± 4798 | 39 ± 30 | 880 ± 28 | 2558 ± 169 | 8082 ± 305 | 33 ± 26 | 1053 ± 63 | 2739 ± 231 | 8335 ± 854 |
| 2-methylnaphthalene | 2 | 8 ± 9 | 15 ± 3 | 43 ± 8 | 116 ± 39 | 4 ± 1 | 137 ± 13 | 396 ± 32 | 1259 ± 118 | 4 ± 1 | 420 ± 19 | 1036 ± 96 | 2982 ± 725 |
| 1-methylnaphthalene | 2 | 4 ± 6 | 8 ± 2 | 22 ± 5 | 62 ± 21 | 2 ± 0 | 86 ± 8 | 261 ± 20 | 854 ± 84 | 2 ± 0 | 458 ± 19 | 1147 ± 102 | 3300 ± 739 |
| Sum methylnaphthalenes | | 12 ± 15 | 23 ± 5 | 65 ± 13 | 178 ± 60 | 6 ± 2 | 223 ± 20 | 657 ± 52 | 2113 ± 201 | 5 ± 1 | 878 ± 38 | 2183 ± 197 | 6282 ± 1465 |
| 3-methylphenanthrene | 3 | 2 ± 1 | 17 ± 3 | 47 ± 11 | 149 ± 31 | 1 ± 0 | 126 ± 24 | 326 ± 47 | 934 ± 160 | 1 ± 0 | 114 ± 14 | 319 ± 38 | 850 ± 156 |
| 2-methylphenanthrene | 3 | 2 ± 0 | 19 ± 5 | 60 ± 13 | 175 ± 41 | 1 ± 0 | 149 ± 11 | 400 ± 28 | 1172 ± 166 | 1 ± 0 | 121 ± 2 | 340 ± 16 | 915 ± 124 |
| 2-methylanthracene | 3 | 0 ± 0 | 8 ± 2 | 25 ± 6 | 78 ± 18 | ND | ND | ND | 409 ± 32 | ND | ND | ND | 32 ± 8 |
| 9-methylphenanthrene + 1-methylanthracene | 3 | 1 ± 0 | 14 ± 4 | 49 ± 12 | 165 ± 56 | 1 ± 0 | 137 ± 20 | 360 ± 85 | 990 ± 206 | 1 ± 0 | 283 ± 29 | 798 ± 42 | 2226 ± 394 |
| 1-methylphenanthrene | 3 | 1 ± 0 | 12 ± 3 | 37 ± 11 | 100 ± 28 | 0 ± 0 | 73 ± 8 | 227 ± 15 | 617 ± 71 | 1 ± 0 | 122 ± 4 | 348 ± 14 | 956 ± 97 |
| Sum methylphenanthrenes | | 7 ± 3 | 70 ± 15 | 218 ± 41 | 668 ± 157 | 2 ± 2 | 530 ± 34 | 1448 ± 144 | 4122 ± 581 | 2 ± 2 | 640 ± 35 | 1804 ± 67 | 4957 ± 731 |
| Total PAHs | | 55 ± 12 | 1763 ± 468 | 5816 ± 1433 | 18151 ± 4983 | 47 ± 33 | 1633 ± 71 | 4663 ± 360 | 14317 ± 813 | 40 ± 29 | 2572 ± 96 | 6726 ± 278 | 19574 ± 1945 |

Ring #: number of aromatic rings; ND: not detectable.