**Table S8**. Number of species and averaged host ranges in families of psoroptidian mites (exclusive of Pyroglyphidae)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Sum of host records per mite species** | | | |
| **Mite Family** | **Number of species** | **Host species** | **Host genus** | **Host family** | **Host order** |
| Chirorhynchobiidae | 3 | 1.000 | 1.000 | 1.000 | 1.000 |
| Dromiciocoptidae | 3 | 1.000 | 1.000 | 1.000 | 1.000 |
| Laminosioptidae | 1 | 1.000 | 1.000 | 1.000 | 1.000 |
| Lemurnyssidae | 4 | 1.000 | 1.000 | 1.000 | 1.000 |
| Oconnoriidae | 1 | 1.000 | 1.000 | 1.000 | 1.000 |
| Pneumocoptidae | 4 | 1.000 | 1.000 | 1.000 | 1.000 |
| Ptyssalgidae | 1 | 1.000 | 1.000 | 1.000 | 1.000 |
| Thoracosathesidae | 2 | 1.000 | 1.000 | 1.000 | 1.000 |
| Paracoroptinae | 5 | 1.200 | 1.000 | 1.000 | 1.000 |
| Ochrolichidae | 4 | 1.250 | 1.000 | 1.000 | 1.000 |
| Caudiferidae | 4 | 1.500 | 1.000 | 1.000 | 1.000 |
| Cytoditidae | 2 | 1.500 | 1.000 | 1.000 | 1.000 |
| Thysanocercidae | 10 | 1.700 | 1.000 | 1.000 | 1.000 |
| Kiwilichidae | 2 | 3.000 | 1.000 | 1.000 | 1.000 |
| Rhyncoptidae | 12 | 1.167 | 1.083 | 1.000 | 1.000 |
| Ascouracaridae | 22 | 1.500 | 1.091 | 1.000 | 1.000 |
| Crypturoptidae | 17 | 2.294 | 1.118 | 1.000 | 1.000 |
| Listropsoralgidae | 7 | 1.286 | 1.143 | 1.000 | 1.000 |
| Eustathiidae | 70 | 2.786 | 1.157 | 1.000 | 1.000 |
| Rectijanuidae | 8 | 2.125 | 1.250 | 1.000 | 1.000 |
| Cheylabididae | 4 | 1.750 | 1.500 | 1.000 | 1.000 |
| Gastronyssidae | 39 | 1.949 | 1.590 | 1.000 | 1.000 |
| Turbinoptidae | 5 | 2.400 | 2.000 | 1.000 | 1.000 |
| Chirodiscidae | 223 | 1.592 | 1.242 | 1.049 | 1.000 |
| Syringobiidae | 96 | 2.010 | 1.177 | 1.052 | 1.000 |
| Apionacaridae | 9 | 1.778 | 1.333 | 1.111 | 1.000 |
| Lobalgidae | 9 | 2.000 | 1.333 | 1.111 | 1.000 |
| Pteronyssidae | 275 | 2.444 | 1.320 | 1.076 | 1.007 |
| Atopomelidae | 400 | 1.488 | 1.255 | 1.028 | 1.008 |
| Listrophoridae | 170 | 1.671 | 1.447 | 1.047 | 1.012 |
| Freyanidae | 81 | 3.049 | 1.259 | 1.025 | 1.012 |
| Pterolichidae | 439 | 2.292 | 1.226 | 1.036 | 1.014 |
| Myocoptidae | 59 | 1.508 | 1.186 | 1.034 | 1.017 |
| Vexillariidae | 37 | 2.135 | 1.081 | 1.027 | 1.027 |
| Alloptidae | 201 | 2.438 | 1.294 | 1.075 | 1.035 |
| Proctophyllodidae | 435 | 2.874 | 1.754 | 1.324 | 1.037 |
| Avenzoariidae | 151 | 3.669 | 1.543 | 1.113 | 1.040 |
| Xolalgidae | 112 | 2.786 | 1.786 | 1.179 | 1.045 |
| Kramerellidae | 55 | 2.964 | 1.709 | 1.109 | 1.055 |
| Trouessartiidae | 183 | 3.082 | 1.699 | 1.306 | 1.060 |
| Falculiferidae | 48 | 2.979 | 1.417 | 1.083 | 1.063 |
| Gabuciniidae | 85 | 3.576 | 1.612 | 1.106 | 1.071 |
| Dermationidae | 28 | 1.429 | 1.214 | 1.143 | 1.071 |
| Analgidae | 251 | 2.490 | 1.693 | 1.351 | 1.104 |
| Ptiloxenidae | 25 | 3.000 | 1.360 | 1.160 | 1.120 |
| Psoroptidae | 49 | 2.327 | 1.980 | 1.327 | 1.122 |
| Sarcoptidae | 114 | 3.351 | 2.447 | 1.351 | 1.132 |
| Psoroptoididae | 65 | 2.985 | 1.969 | 1.569 | 1.246 |
| Dermoglyphidae | 24 | 3.042 | 2.458 | 1.875 | 1.500 |
| Knemidokoptidae | 4 | 3.500 | 3.000 | 2.750 | 1.500 |
| Epidermoptidae | 43 | 3.907 | 3.326 | 2.721 | 1.767 |

Table rows are sorted by last column (from the lowest averaged host range to the highest). Paracoroptinae was treated as distinct from Psoroptidae by Bochkov and Mironov (2011) but not formally raised to family rank.