Supplementary Material, Appendix 1

Flea and host species composition in four regional assemblages. Only fleas parasitic on at least five host species in a region are included. In parentheses are the abbreviations of the species names used in the tables and figures.

A. Europe (Moscow region of Russia)

Fleas

*Amalareus penicilliger* (Amapen)

*Amphipsylla rossica* (Ampros)

*Ctenophthalmus agyrtes* (Cteagy)

*Ctenophthalmus assimilis* (Cteass)

*Ctenophthalmus bisoctodentatus* (Ctebis)

*Ctenophthalmus uncinatus* (Cteunc)

*Doratopsylla dasycnema* (Dordas)

*Hystrichopsylla talpae* (Hystal)

*Leptopsylla segnis* (Lepseg)

*Megabothris turbidus* (Megtur)

*Megabothris walkeri* (Megwal)

*Palaeopsylla soricis* (Palsor)

Hosts

*Apodemus agrarius* (Apoagr)

*Apodemus flavicollis* (Apofla)

*Apodemus sylvaticus* (Aposyl)

*Arvicola amphibius* (Arvamp)

*Crocidura suaveolens* (Crosua)

*Microtis agrestis* (Micagr)

*Microtus arvalis* (Micarv)

*Micromys minutus* (Micmin)

*Mus musculus* (Musmus)

*Myodes glareolus* (Myogla)

*Neomys fodiens* (Neofod)

*Sicista betulina* (Sicbet)

*Sorex araneus* (Sorara)

*Sorex minutus* (Sormin)

*Sorex minutissimus* (Sormint)

*Talpa europaea* (Taleur)

B. Asia (Western Khangai Mountains of Mongolia)

Fleas

*Amphalius runatus* (Amprun)

*Amphipsylla longispina* (Amplon)

*Amphipsylla primaris* (Amppri)

*Citellophilus tesquorum* (Cittes)

*Frontopsylla hetera* (Frohet)

*Neopsylla mana* (Neoman)

*Neopsylla pleskei* (Neople)

*Ochotonobius hirticrus* (Ochhir)

*Paradoxopsyllus dashidorzhii* (Pardas)

Paradoxopsyllus scorodumovi (Parsco)

*Rhadinopsylla dahurica* (Rhadah)

Hosts

*Allocricetulus curtatus* (Allcur)

*Alticola semicanus* (Altsem)

*Cricetulus barabensis* (Cribar)

*Ellobius tancrei* (Elltan)

*Eolagurus przewalskii* (Eolprz)

*Lasiopodomys brandtii* (Lasbra)

*Marmota sibirica* (Marsib)

*Meriones meridianus* (Mermer)

*Meriones unguiculatus* (Merung)

*Ochotona daurica* (Ochdau)

*Ochotona hyperborea* (Ochhyp)

*Ochotona pallasi* (Ochpal)

*Orientallactaga sibirica* (Orisib)

*Phodopus sungorus* (Phosun)

*Spermophilus undulatus* (Speund)

*Stenocranius gregalis* (Stegre)

C. North America (central California)

Fleas

*Aetheca wagneri* (Aetwag)

*Atyphloceras multidentatus* (Atymul)

*Carteretta carteri* (Carcar)

*Hoplopsyllus anomalus* (Hopano)

*Hystrichopsylla dippei* (Hysdip)

*Malaraeus telchinus* (Maltel)

*Orchopeas sexdentatus* (Orcsex)

*Oropsylla montana* (Oromon)

*Peromyscopsylla hesperomys* (Perhes)

Hosts

*Chaetodipus californicus* (Chacal)

*Dipodomys venustus* (Dipven)

*Microtus californicus* (Miccal)

*Neotoma fuscipes* (Neofus)

*Peromyscus boylii* (Perboy)

*Peromyscus californicus* (Percal)

*Peromyscus maniculatus* (Perman)

*Peromyscus truei* (Pertru)

*Reithrodontomys megalotis* (Reimeg)

*Sorex ornatus* (Sororn)

*Spermophilus beecheyi* (Spebee)

*Tamias merriami* (Tammer)

*Thomomys bottae* (Thobot)

D. Africa (South Africa)

Fleas

*Chiastopsylla rossi* (Chiros)

*Ctenophthalmus calceatus* (Ctecal)

*Dinopsyllus ellobius* (Dinell)

*Hypsophthalmus temporis* (Hyptem)

*Listropsylla agrippinae* (Lisagr)

*Xenopsylla eridos* (Xeneri)

Hosts

*Aethomys chrysophilus* (Aetchr)

*Crocidura mariquensis* (Cromar)

*Desmodillus auricularis* (Desaur)

*Elephantulus edwardii* (Eleedw)

*Gerbilliscus brantsii* (Gerbra)

*Gerbillurus paeba* (Gerpae)

*Lemniscomys rosalia* (Lemros)

*Mastomys coucha* (Mascou)

*Mastomys natalensis* (Masnat)

*Micaelamys namaquensis* (Micnam)

*Mus minutoides* (Musmin)

*Mus musculus* (Musmus)

*Myotomys unisulcatus* (Myouni)

*Myosorex varius* (Myovar)

*Otomys angoniensis* (Otoang)

*Otomys irroratus* (Otoirr)

*Otomys karoensis* (Otokar)

*Rhabdomys bechuanae* (Rhabec)

*Rhabdomys dilectus* (Rhadil)

*Rhabdomys intermedius* (Rhaint)

*Rhabdomys pumilio* (Rhapum)

*Steatomys pratensis* (Stepra)