

Supplemental Figures and Tables

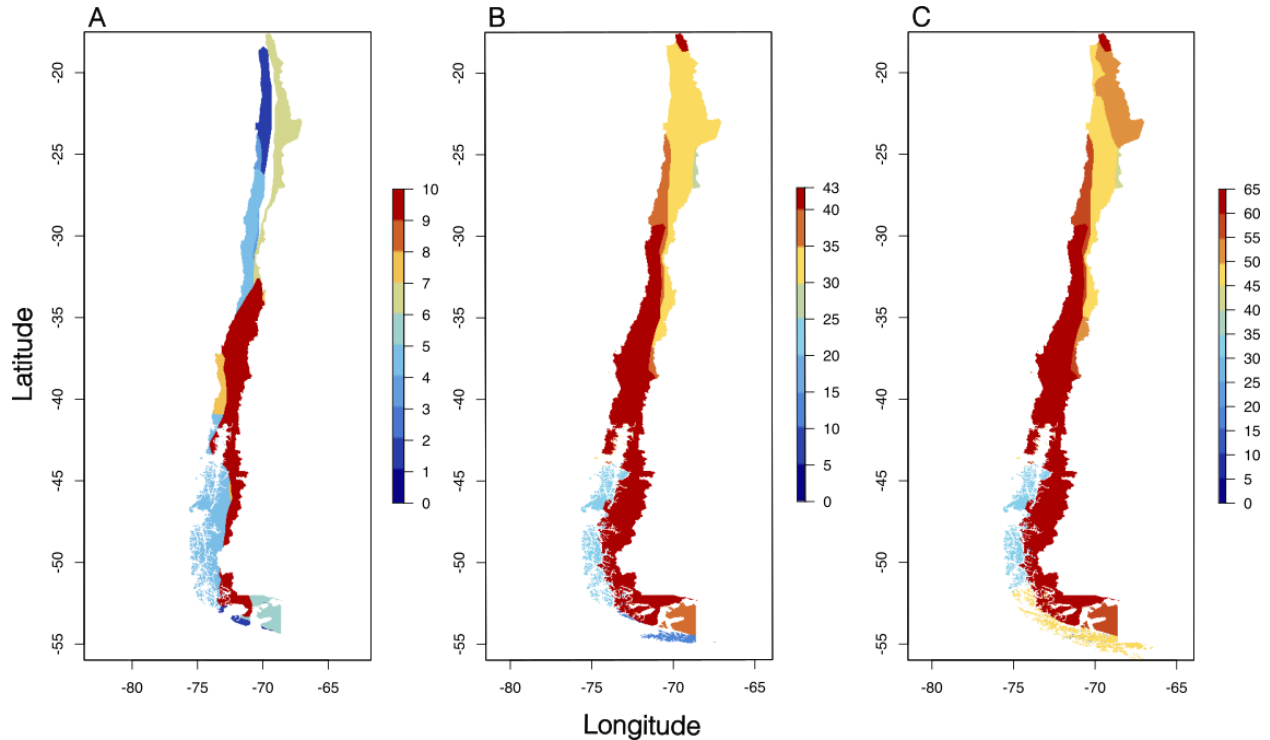


Figure S1. Rodent species richness maps of Chile: **A.** The 10 most central rodents with range data available. **B.** The 43 rodents with ectoparasite associations and range data. **C.** All 65 rodents with range data.

Table S1. Individual rodent ectoparasite associations: All individual rodent-ectoparasite associations with their references from the previous and updated review of Chilean rodents and parasites.

Parasite	Rodent	Reference
<i>Abrocomaphthirus chilensis</i>	<i>Abrocoma bennetti</i>	Durden, 2000; Gomez, 1981
<i>Abrocomophaga chilensis</i>	<i>Abrocoma bennetti</i>	Emerson, 1976; Yáñez-Meza, 2018
<i>Abrocomophaga hellenthali</i>	<i>Octodon degus</i>	Price, 2000
<i>Agastopsylla boxi</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Agastopsylla boxi</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Agastopsylla boxi</i>	<i>Euneomys mordax</i>	Beaucournu, 2014
<i>Agastopsylla boxi</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Agastopsylla boxi</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Agastopsylla boxi</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Agastopsylla guzmani</i>	<i>Akodon albiventer</i>	Beaucournu, 2014
<i>Agastopsylla hirsutior</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Agastopsylla nylota</i>	<i>Euneomys chinchilloides</i>	Beaucournu, 2014
<i>Agastopsylla pearsoni</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Amlistrophorus geoxus</i>	<i>Geoxus valdivianus</i>	Sikora 2012
<i>Androlaelaps farenholzi</i>	<i>Phyllotis darwini</i>	Silva de la Fuente, 2020

<i>Androlaelaps farenholzi</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Veloso-Frias, 2019; Yáñez-Meza, 2018
<i>Androlaelaps farenholzi</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Veloso-Frias, 2019; Yáñez-Meza, 2018
<i>Androlaelaps farenholzi</i>	<i>Akodon albiventer</i>	Beaucournu, 2014; Veloso-Frias, 2019; Yáñez-Meza, 2018
<i>Androlaelaps farenholzi</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014; Veloso-Frias, 2019; Yáñez-Meza, 2018
<i>Argentinacarus expansus</i>	<i>Abrothrix manni</i>	Silva de la Fuente, 2023
<i>Argentinacarus expansus</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2023
<i>Argentinacarus expansus</i>	<i>Geoxus valdivianus</i>	Silva de la Fuente, 2023
<i>Argentinacarus expansus</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2023
<i>Barreropsylla excelsa</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Barreropsylla excelsa</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Barreropsylla excelsa</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014
<i>Barreropsylla excelsa</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Barreropsylla excelsa</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Chilacarus martini</i>	<i>Abrothrix longipilis</i>	Webb, 1986
<i>Chiliopsylla allophyla</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Chiliopsylla allophyla</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Chiliopsylla allophyla</i>	<i>Abrothrix sanborni</i>	Beaucournu, 2014
<i>Chiliopsylla allophyla</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Chiliopsylla allophyla</i>	<i>Irenomys tarsalis</i>	Beaucournu, 2014
<i>Chiliopsylla allophyla</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Chiliopsylla allophyla</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Cleopsylla townsendi</i>	<i>Octodon lunatus</i>	Beaucournu, 2014
<i>Craneopsylla minerva</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Craneopsylla minerva</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Craneopsylla minerva</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Craneopsylla minerva</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Ctenocephalides canis</i>	<i>Rattus norvegicus</i>	Ruiz del Rio, 1939
<i>Ctenocephalides felis</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014; Ruiz del Rio, 1939
<i>Ctenocephalides felis</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Ruiz del Rio, 1939
<i>Ctenoparia inopinata</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ctenoparia inopinata</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ctenoparia inopinata</i>	<i>Abrothrix sanborni</i>	Beaucournu, 2014
<i>Ctenoparia inopinata</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Ctenoparia inopinata</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014
<i>Ctenoparia inopinata</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Ctenoparia inopinata</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ctenoparia inopinata</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014

<i>Ctenoparia inopinata</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia intermedia</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Ctenoparia jordani</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia jordani</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia jordani</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia jordani</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia jordani</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Ctenoparia topallii</i>	<i>Abrothrix sanborni</i>	Beaucournu, 2014
<i>Ctenoparia topallii</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Ctenoparia topallii</i>	<i>Spalacopus cyanus</i>	Beaucournu, 2014
<i>Ctenoparia topallii</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ctenoparia topallii</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ctenoparia topallii</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Dasypsyllus aedon</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Dasypsyllus araucanus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Delostichus coxalis</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus coxalis</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Delostichus coxalis</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus coxalis</i>	<i>Octodon lunatus</i>	Beaucournu, 2014
<i>Delostichus coxalis</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Delostichus degus</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014
<i>Delostichus degus</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus octomyos</i>	<i>Octodon degus</i>	Beaucournu, 2014
<i>Delostichus octomyos</i>	<i>Octomys mimax</i>	Beaucournu, 2014
<i>Delostichus phyllotis</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus phyllotis</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus phyllotis</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus phyllotis</i>	<i>Octodon bridgesi</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Delostichus smiti</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018

<i>Delostichus smiti</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Yáñez-Meza, 2018
<i>Delostichus smiti</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Delostichus smiti</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Delostichus smiti</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Dewacarus lemuensis</i>	<i>Loxodontomys pikumche</i>	Silva de la Fuente, 2016
<i>Echidnophaga gallinacea</i>	<i>Cavia porcellus</i>	Beaucournu, 2014
<i>Echidnophaga gallinacea</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014; Yáñez-Meza, 2018
<i>Ectinorus angularis</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Ectinorus chilensis</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Ectinorus chilensis</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus chilensis</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus chilensis</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus chilensis</i>	<i>Spalacopus cyanus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus cocyti</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus cocyti</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus cocyti</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus cocyti</i>	<i>Spalacopus cyanus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Ectinorus curvatus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Ectinorus deplexus</i>	<i>Euneomys chinchilloides</i>	Beaucournu, 2014
<i>Ectinorus gallardoi</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014
<i>Ectinorus hertigi</i>	<i>Ctenomys fulvus</i>	Beaucournu, 2014
<i>Ectinorus ineptus</i>	<i>Eligmodontia puerulus</i>	Beaucournu, 2014
<i>Ectinorus ineptus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Ectinorus insignis</i>	<i>Eligmodontia puerulus</i>	Beaucournu, 2014
<i>Ectinorus ixanus</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Ectinorus lagidium</i>	<i>Lagidium viscacia</i>	Beaucournu, 2014
<i>Ectinorus levipes</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Aconaemys sagei</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Ectinorus martini</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014

<i>Ectinorus mondacai</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014
<i>Ectinorus mondacai</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Ectinorus nomisis</i>	<i>Andinomys edax</i>	Beaucournu, 2014
<i>Ectinorus nomisis</i>	<i>Octodontomys gliroides</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Eligmodontia typus</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Ectinorus onychius</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Ectinorus setosicornis</i>	<i>Lagidium viscacia</i>	Beaucournu, 2014
<i>Ectinorus simonsi</i>	<i>Octodontomys gliroides</i>	Beaucournu, 2014
<i>Ectinorus splendidus</i>	<i>Euneomys chinchilloides</i>	Beaucournu, 2014
<i>Ectinorus uncinatus</i>	<i>Andinomys edax</i>	Beaucournu, 2014
<i>Ferrisella chilensis</i>	<i>Octodon degus</i>	Moreno Salas, 2005
<i>Ferrisella disgrega</i>	<i>Octodontomys gliroides</i>	Moreno Salas, 2005
<i>Gigantolaelaps wolffsohni</i>	<i>Oligoryzomys longicaudatus</i>	Fuenzalida-Araya, 2020; Lareschi, 2010
<i>Gigantolaelaps wolffsohni</i>	<i>Rattus rattus</i>	Fuenzalida-Araya, 2020
<i>Gyropus distinctus</i>	<i>Abrocoma bennetti</i>	Yáñez-Meza, 2018; Moreno Salas, 2005; Castro, 2002
<i>Gyropus distinctus</i>	<i>Octodon degus</i>	Yáñez-Meza, 2018; Moreno Salas, 2005; Castro, 2002
<i>Gyropus distinctus</i>	<i>Octodon lunatus</i>	Yáñez-Meza, 2018; Moreno Salas, 2005; Castro, 2002
<i>Gyropus elongatus</i>	<i>Aconaemys fuscus</i>	Moreno Salas, 2005
<i>Gyropus latiplicaris</i>	<i>Ctenomys osgoodi</i>	Ewing, 1924
<i>Gyropus parvus</i>	<i>Ctenomys maulinus</i>	Moreno Salas, 2005
<i>Hectopsylla cypha</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Hectopsylla cypha</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Hectopsylla cypha</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Hectopsylla cypha</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Hectopsylla cypha</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Hectopsylla gemina</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Yáñez-Meza, 2018
<i>Hectopsylla gemina</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Hectopsylla suarezi</i>	<i>Ctenomys robustus</i>	Beaucournu, 2014
<i>Hectopsylla suarezi</i>	<i>Octodontomys gliroides</i>	Beaucournu, 2014
<i>Hectopsylla suarezi</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014
<i>Hectopsylla suarezi</i>	<i>Rattus rattus</i>	Beaucournu, 2014
<i>Herpetacarus antarctica</i>	<i>Loxodontomys micropus</i>	Silva de la Fuente, 2023
<i>Herpetacarus antarctica</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2023
<i>Herpetacarus eloisae</i>	<i>Abrothrix manni</i>	Silva de la Fuente, 2023
<i>Herpetacarus eloisae</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2023; Silva de la Fuente, 2021
<i>Herpetacarus eloisae</i>	<i>Abrothrix sanborni</i>	Silva de la Fuente, 2021
<i>Herpetacarus eloisae</i>	<i>Geoxus valdivianus</i>	Silva de la Fuente, 2023; Silva de la Fuente, 2021

<i>Herpetacarus eloisae</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2023
<i>Hoplopleura aitkeni</i>	<i>Phyllotis darwini</i>	González-Acuña, 2003
<i>Hoplopleura aitkeni</i>	<i>Phyllotis xanthopygus</i>	González-Acuña, 2003
<i>Hoplopleura andina</i>	<i>Abrothrix andinus</i>	Gomez, 1981; González-Acuña, 2003; González-Acuña, 2005; Castro, 1981
<i>Hoplopleura andina</i>	<i>Abrothrix olivaceus</i>	Gomez, 1981; González-Acuña, 2003; González-Acuña, 2005; Castro, 1981
<i>Hoplopleura andina</i>	<i>Geoxus valdivianus</i>	Gomez, 1981; González-Acuña, 2003; González-Acuña, 2005; Castro, 1981
<i>Hoplopleura pacifica</i>	<i>Rattus norvegicus</i>	González-Acuña, 2003
<i>Hoplopleura travassosi</i>	<i>Oligoryzomys longicaudatus</i>	González-Acuña, 2003; González-Acuña, 2005
<i>Ixodes abrocomae</i>	<i>Abrocoma bennetti</i>	Guglielmone, 2010
<i>Ixodes abrocomae</i>	<i>Abrothrix longipilis</i>	Guglielmone, 2010
<i>Ixodes abrocomae</i>	<i>Abrothrix olivaceus</i>	Guglielmone, 2010
<i>Ixodes abrocomae</i>	<i>Phyllotis xanthopygus</i>	Guglielmone, 2010
<i>Ixodes sigelos</i>	<i>Abrocoma bennetti</i>	González-Acuña, 2005
<i>Ixodes sigelos</i>	<i>Aconaemys fuscus</i>	González-Acuña, 2005
<i>Ixodes sigelos</i>	<i>Octodon bridgesi</i>	Muñoz-Leal 2019
<i>Ixodes sigelos</i>	<i>Octodon degus</i>	González-Acuña, 2005
<i>Ixodes sigelos</i>	<i>Oligoryzomys longicaudatus</i>	González-Acuña, 2005
<i>Ixodes sigelos</i>	<i>Phyllotis darwini</i>	Muñoz-Leal 2019
<i>Ixodes sigelos</i>	<i>Rattus norvegicus</i>	Muñoz-Leal 2019; González-Acuña, 2005
<i>Ixodes stilesi</i>	<i>Oligoryzomys longicaudatus</i>	Ivanova 2014
<i>Laelaps echidninus</i>	<i>Rattus norvegicus</i>	
<i>Laelaps echidninus</i>	<i>Rattus rattus</i>	Lareschi, 2010
<i>Leptopsylla segnis</i>	<i>Mus musculus</i>	Moreno Salas, 2020
<i>Leptopsylla segnis</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Leptopsylla segnis</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Leptopsylla segnis</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Leptopsylla segnis</i>	<i>Rattus rattus</i>	Moreno Salas, 2019; Moreno Salas, 2020
<i>Leptopsylla segnis</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Listronius fortis</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Listronius fortis</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Listronius plesiomorphus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Listronius plesiomorphus</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Listronius ulus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Listronius ulus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Listronius ulus</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014

<i>Listronius ulus</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Lukoschus maresi</i>	<i>Abrothrix olivaceus</i>	Lareschi, 2010
<i>Monogrypus longus</i>	<i>Abrocoma bennetti</i>	Ewing, 1924; Yáñez-Meza, 2018
<i>Mysolaelaps microspinosus</i>	<i>Oligoryzomys longicaudatus</i>	Lareschi, 2010
<i>Neotyphloceras chilensis</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras chilensis</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Neotyphloceras chilensis</i>	<i>Octodon bridgesi</i>	Beaucournu, 2014
<i>Neotyphloceras chilensis</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras chilensis</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras chilensis</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras chilensis</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Neotyphloceras chilensis</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Neotyphloceras chilensis</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras crassispina</i>	<i>Abrocoma cinerea</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Abrothrix andinus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras crassispina</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Akodon albiventer</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Ctenomys opimus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Octodon degus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Octodontomys gliroides</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras crassispina</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras crassispina</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Rattus rattus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Neotyphloceras crassispina</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Neotyphloceras pardinasi</i>	<i>Abrothrix olivaceus</i>	Moreno Salas, 2019; Moreno Salas, 2020
<i>Neotyphloceras pardinasi</i>	<i>Rattus rattus</i>	Moreno Salas, 2019; Moreno Salas, 2020
<i>Neotyphloceras pardinasi</i>	<i>Abrothrix longipilis</i>	Moreno Salas, 2019; Moreno Salas, 2020
<i>Neotyphloceras pardinasi</i>	<i>Oligoryzomys longicaudatus</i>	Moreno Salas, 2019; Moreno Salas, 2020

<i>Nonnapsylla rothschildi</i>	<i>Abrocoma cinerea</i>	Beaucournu, 2014
<i>Nonnapsylla rothschildi</i>	<i>Octodontomys gliroides</i>	Beaucournu, 2014
<i>Nosopsyllus fasciatus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Nosopsyllus fasciatus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Nosopsyllus fasciatus</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Nosopsyllus fasciatus</i>	<i>Myocastor coypus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Nosopsyllus fasciatus</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Nosopsyllus fasciatus</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020; Seguel, 2017
<i>Ornithodoros octodontus</i>	<i>Octodon degus</i>	Muñoz-Leal 2020
<i>Ornithonyssus bacoti</i>	<i>Rattus rattus</i>	Seguel, 2017
<i>Paraguacarus santiagoensis</i>	<i>Octodon degus</i>	Goff, 1989
<i>Paratrombicula enciscoensis</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2021
<i>Paratrombicula goffi</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2023; Silva de la Fuente, 2021
<i>Paratrombicula goffi</i>	<i>Geoxus valdivianus</i>	Silva de la Fuente, 2023
<i>Paratrombicula goffi</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2023
<i>Paratrombicula neuquenensis</i>	<i>Abrothrix manni</i>	Silva de la Fuente, 2023
<i>Paratrombicula neuquenensis</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2023
<i>Paratrombicula neuquenensis</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2023
<i>Phtheiropoios nematophallus</i>	<i>Ctenomys opimus</i>	Moreno Salas, 2005
<i>Phtheiropoios pearsoni</i>	<i>Abrocoma bennetti</i>	Moreno Salas, 2005
<i>Phtheiropoios pollicaris</i>	<i>Ctenomys magellanicus</i>	Moreno Salas, 2005
<i>Plocopsylla achilles</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Plocopsylla achilles</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Plocopsylla consobrina</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Plocopsylla crypta</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Plocopsylla crypta</i>	<i>Octodon degus</i>	Beaucournu, 2014
<i>Plocopsylla crypta</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Plocopsylla diana</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Plocopsylla diana</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Plocopsylla diana</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Plocopsylla enderleini</i>	<i>Chinchillula sahamae</i>	Beaucournu, 2014
<i>Plocopsylla fuegina</i>	<i>Ctenomys magellanicus</i>	Beaucournu, 2014
<i>Plocopsylla lewisi</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Plocopsylla lewisi</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Plocopsylla lewisi</i>	<i>Euneomys chinchilloides</i>	Beaucournu, 2014
<i>Plocopsylla lewisi</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Plocopsylla lewisi</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014
<i>Plocopsylla muruai</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014
<i>Plocopsylla muruai</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014

<i>Plocopsylla reigi</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Plocopsylla reigi</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Plocopsylla reigi</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014
<i>Plocopsylla reigi</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Plocopsylla reigi</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Plocopsylla silewi</i>	<i>Abrothrix olivaceus</i>	Sanchez, 2015; Beaucournu, 2014
<i>Plocopsylla viracocha</i>	<i>Andinomys edax</i>	Beaucournu, 2014
<i>Plocopsylla viracocha</i>	<i>Auliscomys boliviensis</i>	Beaucournu, 2014
<i>Plocopsylla viracocha</i>	<i>Chinchillula sahamae</i>	Beaucournu, 2014
<i>Plocopsylla viracocha</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Plocopsylla viracocha</i>	<i>Phyllotis osgoodi</i>	Beaucournu, 2014
<i>Plocopsylla wilesi</i>	<i>Abrothrix olivaceus</i>	Sanchez 2015; Beaucournu, 2014
<i>Plocopsylla wilesi</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Plocopsylla wolffsohni</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Plocopsylla wolffsohni</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Plocopsylla wolffsohni</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Plocopsylla wolffsohni</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Plocopsylla wolffsohni</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Plocopsylla wolffsohni</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Poliremotus chilensis</i>	<i>Octodon degus</i>	Brennan, 1978
<i>Polygenis platensis</i>	<i>Ctenomys fulvus</i>	Beaucournu, 2014
<i>Polygenis platensis</i>	<i>Ctenomys robustus</i>	Beaucournu, 2014
<i>Pulex irritans</i>	<i>Lagidium viscacia</i>	Macchiavello, 1976; Ruiz del Rio, 1939
<i>Pulex irritans</i>	<i>Mus musculus</i>	Macchiavello, 1976; Ruiz del Rio, 1939
<i>Pulex irritans</i>	<i>Rattus norvegicus</i>	Macchiavello, 1976; Ruiz del Rio, 1939
<i>Pulex irritans</i>	<i>Rattus rattus</i>	Macchiavello, 1976; Ruiz del Rio, 1939
<i>Quadrasetta chiloensis</i>	<i>Abrothrix manni</i>	Silva de la Fuente, 2023
<i>Quadrasetta chiloensis</i>	<i>Abrothrix olivaceus</i>	Silva de la Fuente, 2021; Silva de la Fuente, 2023
<i>Quadrasetta chiloensis</i>	<i>Geoxus valdivianus</i>	Silva de la Fuente, 2021; Silva de la Fuente, 2023
<i>Quadrasetta chiloensis</i>	<i>Oligoryzomys longicaudatus</i>	Silva de la Fuente, 2021; Silva de la Fuente, 2023
<i>Rhipicephalus sanguineus</i>	<i>Rattus norvegicus</i>	González-Acuña , 2005
<i>Sphinctopsylla ares</i>	<i>Abrothrix lanosus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020

<i>Sphinctopsylla ares</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Abrothrix sanborni</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Euneomys mordax</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Loxodontomys pikumche</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Sphinctopsylla ares</i>	<i>Spalacopus cyanus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Octodon degus</i>	Moreno Salas, 2020
<i>Tetrapsyllus amplus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus amplus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus amplus</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus amplus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus bleptus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Tetrapsyllus bleptus</i>	<i>Phyllotis magister</i>	Beaucournu, 2014
<i>Tetrapsyllus bleptus</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Tetrapsyllus comis</i>	<i>Octodon bridgesi</i>	Beaucournu, 2014
<i>Tetrapsyllus contortrix</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Tetrapsyllus contortrix</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Tetrapsyllus corfidii</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020; Yáñez-Meza, 2018
<i>Tetrapsyllus corfidii</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020

<i>Tetrapsyllus corfidii</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Octodon bridgesi</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Octodon lunatus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus corfidii</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus elutus</i>	<i>Auliscomys sublimis</i>	Beaucournu, 2014
<i>Tetrapsyllus elutus</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Tetrapsyllus maulinus</i>	<i>Ctenomys colburni</i>	Beaucournu, 2014
<i>Tetrapsyllus maulinus</i>	<i>Ctenomys magellanicus</i>	Beaucournu, 2014
<i>Tetrapsyllus maulinus</i>	<i>Ctenomys maulinus</i>	Beaucournu, 2014
<i>Tetrapsyllus rhombus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Ctenomys maulinus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Euneomys mordax</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Loxodontomys pikumche</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus rhombus</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
<i>Tetrapsyllus satyrus</i>	<i>Aconaemys fuscus</i>	Beaucournu, 2014
<i>Tetrapsyllus satyrus</i>	<i>Aconaemys porteri</i>	Beaucournu, 2014
<i>Tetrapsyllus satyrus</i>	<i>Chelemys macronyx</i>	Beaucournu, 2014
<i>Tetrapsyllus satyrus</i>	<i>Geoxus valdivianus</i>	Beaucournu, 2014
<i>Tetrapsyllus simulans</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014

<i>Tetrapsyllus simulans</i>	<i>Oligoryzomys longicaudatus</i>	Beaucournu, 2014
<i>Tetrapsyllus simulans</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Tetrapsyllus tantillus</i>	<i>Abrocoma bennetti</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Ctenomys magellanicus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Euneomys mordax</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Loxodontomys micropus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Octodon degus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Reithrodon auritus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Spalacopus cyanus</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tetrapsyllus tantillus</i>	<i>Abrothrix longipilis</i>	Beaucournu, 2014; Moreno Salas, 2020
<i>Tiamastus callens</i>	<i>Ctenomys maulinus</i>	Beaucournu, 2014
<i>Tiamastus gallardoi</i>	<i>Abrothrix olivaceus</i>	Beaucournu, 2014
<i>Tiamastus gallardoi</i>	<i>Ctenomys colburni</i>	Beaucournu, 2014
<i>Tiamastus plesius</i>	<i>Ctenomys robustus</i>	Beaucournu, 2014
<i>Tunga bonneti</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Tunga bonneti</i>	<i>Phyllotis xanthopygus</i>	Beaucournu, 2014
<i>Tunga bonneti</i>	<i>Rattus rattus</i>	Beaucournu, 2014
<i>Tunga libis</i>	<i>Phyllotis darwini</i>	Beaucournu, 2014
<i>Tunga penetrans</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014
<i>Xenopsylla astia</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014
<i>Xenopsylla cheopis</i>	<i>Rattus norvegicus</i>	Beaucournu, 2014
<i>Xenopsylla cheopis</i>	<i>Rattus rattus</i>	Beaucournu, 2014; Moreno Salas, 2019; Moreno Salas, 2020
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Table S2. Name changes made according to the Integrated Taxonomic Information System

Rodent Species Name in Review Literature	Valid Name according to ITIS
<i>Abrothrix olivacea</i>	<i>Abrothrix olivaceus</i>
<i>Abrothrix xanthorhinus</i>	<i>Abrothrix olivaceus</i>
<i>Abrothrix brachiotis</i>	<i>Abrothrix olivaceus</i>
<i>Abrothrix hirta</i>	<i>Abrothrix longipilis</i>
<i>Reithrodon physodes</i>	<i>Reithrodon auritus</i>
<i>Akodon berlepschii</i>	<i>Akodon albiventer</i>
<i>Phyllotis xanthorhinus</i>	<i>Phyllotis xanthropygus</i>

Table S3. Data summary for predictor variables: The total ectoparasite associations and relationships, range size, Genbank accession numbers, and Cyt-b sequence lengths are reported for all 50 rodent species included in the analysis.

Supplemental Table S3				
Rodent	Total Parasites	Total Relationships	GenBank Accession	Cyt b sequence length
<i>Abrocoma bennettii</i>	18	59	AF244387.1	487*
<i>Abrocoma cinerea</i>	2	16	AF244388.1	564*
<i>Abrothrix andinus</i>	2	17	AF108671.1	1144
<i>Abrothrix lanosus</i>	1	15	EU683433.1	1160
<i>Abrothrix longipilis</i>	34	146	GU564005.1	1144
<i>Abrothrix manni</i>	4	12	MH917345.1	801
<i>Abrothrix olivaceus</i>	46	184	KC841338.1	1140
<i>Abrothrix sanborni</i>	5	38	KJ614629.1	801
<i>Aconaemys fuscus</i>	8	26	KC731571.1	1125
<i>Aconaemys porteri</i>	9	66	MT461704.1	801
<i>Aconaemys sagei</i>	1	5	KJ742650.1	1140
<i>Akodon albiventer</i>	3	19	KC841385.1	1140
<i>Andinomys edax</i>	3	5	AF159284.1	1140
<i>Auliscomys boliviensis</i>	1	4	JQ434420.1	1150
<i>Auliscomys sublimis</i>	1	1	JQ434421.1	900
<i>Cavia porcellus</i>	1	1	DQ017040.1	1140

<i>Chelemys macronyx</i>	8	54	U03533.2	1144
<i>Chinchillula sahamae</i>	2	4	JQ434422.1	1140
<i>Ctenomys colburni</i>	2	3	HM777474.1	1140
<i>Ctenomys fulvus</i>	2	1	AF370688.1	1140
<i>Ctenomys magellanicus</i>	4	12	AF370690.1	1140
<i>Ctenomys maulinus</i>	4	14	AF370702.1	1140
<i>Ctenomys opimus</i>	2	15	AF007042.1	1140
<i>Ctenomys osgoodi</i>	1	0	not available	
<i>Ctenomys robustus</i>	3	4	not available	
<i>Eligmodontia puerulus</i>	2	1	EU377651.1	1144
<i>Eligmodontia typus</i>	1	5	AF108692.1	1144
<i>Euneomys chinchilloides</i>	4	4	AY275115.1	1140
<i>Euneomys mordax</i>	4	42	HM197718.1	801
<i>Geoxus valdivianus</i>	13	65	HM167877.1	801
<i>Irenomys tarsalis</i>	1	6	U03534.2	1144
<i>Lagidium viscacia</i>	3	3	AY254886.1	621*
<i>Loxodontomys micropus</i>	15	93	AF108690.1	1144
<i>Loxodontomys pikumche</i>	3	27	not available	
<i>Mus musculus</i>	2	8	LC605043.1	1140
<i>Myocastor coypus</i>	1	5	EU544663.1	1140
<i>Octodon bridgesi</i>	5	24	KJ742651.1	1140
<i>Octodon degus</i>	22	79	AF007058.1	1140
<i>Octodon lunatus</i>	4	13	KX298476.1	1093
<i>Octodontomys gliroides</i>	6	20	AF370706.1	1140
<i>Octomys mimax</i>	1	1	GQ121089.1	663*
<i>Oligoryzomys longicaudatus</i>	29	133	GU393998.1	1143
<i>Phyllotis darwini</i>	27	127	AY956729.1	1144
<i>Phyllotis magister</i>	1	2	U86824.2	1144
<i>Phyllotis osgoodi</i>	1	4	U86825.2	127*
<i>Phyllotis xanthopygus</i>	15	79	KR089034.1	1140
<i>Rattus norvegicus</i>	14	33	MH794461.1	1140
<i>Rattus rattus</i>	21	101	AB211039.1	1140
<i>Reithrodon auritus</i>	9	72	EU579474.1	1143
<i>Spalacopus cyanus</i>	5	36	AF007061.1	1140
				*Sequence lengths <801 bp not included in phylogenetic analysis

Table S4. Logistic regression coefficients for ectoparasite sharing between rodents based on predictor variables: The logistic regression coefficients (slope, intercept, and their

corresponding measures such as z-value, p-value, standard error, and confidence intervals) are reported for each ectoparasite species included in the analysis of predictor variables. The three variables included are geographic overlap, geographic distance, and phylogenetic relatedness. The coefficients for hantavirus-sharing and the entire dataset with and without hantavirus included are reported.

	intercept	Std. Error	z value	Pr(> z)	2.50%	97.50%	slope	Std. Error	z value	Pr(> z)	2.50%	97.50%
Geographic Overlap												
<i>Ixodes abrocomae</i>	-3.319297	0.8794975	-3.781133	0.0001658	5.0430805	1.5955136	3.5974777	1.6646533	2.1603062	0.0342564	0.3348172	6.8601382
<i>Ixodes sigelos</i>	2.5998545	0.6846694	3.7951537	0.0001589	3.9417818	1.2579271	2.5304706	1.2458592	2.0086582	0.079359	0.0886314	4.9723098
<i>Androlaelaps farenholzi</i>	2.7010998	0.7002187	3.8560825	0.0001175	4.0735032	1.3286964	2.529572	1.4356931	1.7444163	0.1236296	0.2843347	5.3434787
<i>Argentinacarus expansus</i>	6.2818366	3.2278934	2.9506984	0.0411282	12.608391	0.0447183	7.241303	3.9519468	2.2951302	0.0472528	0.5043703	14.986976
<i>Herpetacarus eloisae</i>	3.2169199	0.8632962	3.7632249	0.0002621	4.9089493	1.5248905	3.6750902	1.4743002	2.4985046	0.0130352	0.785515	6.5646654
<i>Paratrombicula goffi</i>	-2433.622	127095.65	1.7679062	0.3509021	251536.51	246669.27	2535.3678	132302.36	1.5369861	0.3584231	-256772.5	261843.24
<i>Paratrombicula neuquenensis</i>	12.335717	8.8842528	-2.638205	0.0754392	29.748532	5.0770986	13.375525	9.7585049	2.0465151	0.0848053	5.7507934	32.501843
<i>Quadrasetta chiloensis</i>	6.2048992	3.1594165	2.9784838	0.039897	12.397242	0.0125566	7.1949433	3.8979414	2.306448	0.0460677	0.4448814	14.834768
<i>Gyropus distinctus</i>	18.866977	24.678278	2.4476994	0.167273	67.235514	29.50156	18.36921	25.117949	1.5603536	0.1982218	30.861065	67.599485
<i>Hoplopleura andina</i>	3.5175854	0.9878185	3.5869291	0.0004349	5.4536741	1.5814966	2.9950515	1.7220816	1.7363635	0.0941653	0.3801665	6.3702694
<i>Agastopsylla boxi</i>	-2.869503	0.7598271	3.8218619	0.000191	4.3587368	1.3802692	3.3728307	1.4724384	2.286458	0.044356	0.4869046	6.2587568
<i>Barreropssylla excelsa</i>	7.6240807	3.820952	2.5161324	0.0427964	15.113009	0.1351523	10.780601	5.1578954	2.350647	0.0378677	0.6713114	20.88989
<i>Chiliopsylla allophyla</i>	3.2334631	0.8422122	3.8588896	0.0001363	4.8841687	1.5827575	5.0623839	1.6303253	3.1108631	0.0021874	1.867005	8.2577628
<i>Craneopsylla minerva</i>	2.8817794	0.7513265	3.8375512	0.0001268	4.3543523	1.4092064	2.3980045	1.5452452	1.5718303	0.1264573	0.6306204	5.4266294
<i>Ctenoparia inopinata</i>	2.5997051	0.6624061	3.9283713	9.32E-05	3.8979972	-1.301413	3.9351711	1.3716224	2.8670298	0.0051621	1.2468406	6.6235017
<i>Ctenoparia jordani</i>	247.33342	46361.11	1.8551647	0.2654116	91113.439	90618.772	281.53305	52302.652	1.7317281	0.2684638	102229.78	102792.85
<i>Ctenoparia topallii</i>	3.1579892	0.8197768	3.8625561	0.0001243	4.7647223	1.5512562	4.2810059	1.5294296	2.775047	0.007342	1.283379	7.2786328
<i>Delostichus coxalis</i>	-19.42548	20.137545	2.8744727	0.0965247	58.894342	20.043382	19.420125	20.697197	1.7891789	0.1445585	21.145635	59.985885
<i>Delostichus phyllotis</i>	3.2940861	0.9171599	3.6064865	0.0003654	5.0916865	1.4964857	2.8859261	1.4667989	1.9219171	0.1371855	0.0110531	5.7607991
<i>Delostichus smiti</i>	-3.963502	1.2845672	3.3039551	0.0040561	6.4812074	1.4457967	4.0638683	1.8807071	2.1300749	0.0676527	0.3777501	7.7499866
<i>Ectinorus chilensis</i>	2.9733608	0.8135891	3.6765443	0.0002826	4.5679661	1.3787556	2.7368058	1.3905166	1.925963	0.1410212	0.0114434	5.4621682
<i>Ectinorus cocyti</i>	4.9887612	1.9429009	2.7173231	0.0133461	8.7967769	1.1807454	4.8662285	2.4044392	2.059397	0.0432182	0.1536143	9.5788426
<i>Ectinorus martini</i>	2.6323022	0.7003082	3.7637927	0.000173	-4.004881	1.2597234	2.3609478	1.1688218	2.0567364	0.0497135	0.0700991	4.6517964
<i>Ectinorus onychius</i>	-2.830133	0.7639031	3.7706463	0.0003152	4.3273555	1.3329105	3.2044603	1.4420848	2.2343659	0.0569164	0.3780261	6.0308946
<i>Hectopsylla cypha</i>	3.3964517	0.9051498	3.7684484	0.0001835	5.1705127	1.6223908	4.4183563	1.7447796	2.5072379	0.0334681	0.998651	7.8380615
<i>Leptopsylla segnis</i>	15058.534	238341.23	2.3896588	0.2760623	482198.77	452081.7	15708.738	248602.72	1.8832076	0.281859	471543.63	502961.11
<i>Listronius ulus</i>	4.3923124	1.3471412	3.3054665	0.0013025	7.0326607	1.7519641	5.4949828	2.0897691	2.623453	0.0088886	1.3991106	9.5908551
<i>Neotyphloceras chilensis</i>	2.5009791	0.649151	3.8438113	0.0001501	3.7732916	1.2286665	3.698508	1.4357122	2.5718095	0.0473377	0.8845638	6.5124523
<i>Neotyphloceras crassispina</i>	0.9413197	0.3988241	2.3575694	0.0195206	1.7230006	0.1596388	1.5266423	1.0554862	1.4324402	0.1663026	0.5420727	3.5953573
<i>Neotyphloceras pardinasi</i>	-1068.549	99742.4	-1.230098	0.3871892	196560.06	194422.96	1281.9904	119529.45	1.1782108	0.3943756	232991.44	235555.42
<i>Nosopsyllus fasciatus</i>	466.54993	50444.651	2.7023537	0.2040516	99336.249	98403.149	468.79115	50445.574	2.3020895	0.2065471	98402.716	99340.299

<i>Plocopsylla crypta</i>	8.2917009	5.0444741	2.6120841	0.0636552	18.178688	1.5952868	8.5095778	5.6953949	1.8233446	0.0930488	2.6531911	19.672347
<i>Plocopsylla diana</i>	764.10799	87205.876	2.1774159	0.3579721	171684.48	170156.27	764.09611	87206.361	1.4246604	0.3743662	170157.23	171685.42
<i>Plocopsylla lewisi</i>	-3.315226	0.863268	3.8576745	0.0001322	5.0072002	1.6232518	4.8457611	1.8286988	2.6570212	0.008522	1.2615774	8.4299448
<i>Plocopsylla reigi</i>	3.7384931	1.0442783	-3.602771	0.0004127	5.7852411	1.6917452	4.7975465	1.7270411	2.7748897	0.0055838	1.4126082	8.1824848
<i>Plocopsylla viracocha</i>	-2.965631	0.8677039	3.4452393	0.0006417	4.6662994	1.2649626	1.9358327	1.2624669	1.6157528	0.2362543	0.5385569	4.4102223
<i>Plocopsylla wolffsohni</i>	3.2984426	0.8880713	3.7278301	0.0002302	5.0390304	1.5578548	3.69639	1.4738016	2.5080268	0.0129845	0.807792	6.584988
<i>Sphinctopsylla ares</i>	-1.154202	0.420652	2.7274132	0.0134456	1.9786648	0.3297392	2.4723608	1.1898666	2.0954195	0.0772004	0.1402651	4.8044565
<i>Tetrapsyllus amplus</i>	5.0824291	1.693526	-3.060785	0.0033895	8.4016792	1.7631791	6.968661	2.6493203	2.6394074	0.0087115	1.7760886	12.161233
<i>Tetrapsyllus bleptus</i>	3.3884267	0.9499478	3.5937673	0.0004036	5.2502901	1.5265633	2.5753581	1.6878579	1.5149879	0.1789766	0.7327826	5.8834987
<i>Tetrapsyllus confidii</i>	2.2777512	0.6043546	3.7639451	0.000184	3.4622644	-1.093238	2.6969903	1.1744549	2.3115424	0.0425517	0.3951009	4.9988797
<i>Tetrapsyllus rhombus</i>	1.8764473	0.5183157	3.6176781	0.0003127	2.8923275	0.8605672	3.0708792	1.1838139	2.6036177	0.0108039	0.7506466	5.3911118
<i>Tetrapsyllus satyrus</i>	3.1462722	0.8874024	3.5640011	0.0004268	4.8855488	1.4069955	2.2056295	1.298347	1.7001753	0.0970323	0.3390837	4.7503428
<i>Tetrapsyllus simulans</i>	4.8294132	1.6298287	3.0401948	0.0039072	8.0238189	1.6350076	5.3306765	2.3001429	2.3216792	0.0203872	0.8224794	9.8388737
<i>Tetrapsyllus tantillus</i>	-1.655071	0.4820394	3.4234738	0.0010712	2.5998508	0.7102912	2.5392428	1.2107932	2.1268348	0.0887488	0.1661316	4.9123539
Overall	2.9821089	0.1148263	25.972936	7.32E-146	3.2071643	2.7570536	3.249973	0.1968822	16.505794	2.90E-54	2.864091	3.6358549
Hantavirus	4.4993676	1.348959	3.3478133	0.0009175	7.1432787	1.8554565	6.6099408	2.2800322	2.8997732	0.0037457	2.1411597	11.078722
Overall including hantavirus	3.0006341	0.1143712	26.238086	5.71E-149	3.2247975	2.7764706	3.2861998	0.195438	16.813563	6.21E-58	2.9031484	3.6692513
Geographic distance												
<i>Ixodes abrocomae</i>	1.4125894	0.8562351	1.6911874	0.1259959	3.0907793	0.2656005	0.1043504	0.0963403	1.0513981	0.3025962	0.2931739	0.0844731
<i>Ixodes sigelos</i>	0.0503227	0.7718841	0.1323683	0.62267	1.5631878	1.4625423	0.2700667	0.1276041	2.0534564	0.0600319	0.5201662	0.0199673
<i>Androlaelaps farenholzi</i>	0.8801989	0.8211522	1.1356311	0.4266643	2.4896276	0.7292298	0.1470184	0.0981546	-1.318966	0.2867038	0.3393978	0.0453611
<i>Argentinacarus expansus</i>	0.32421	1.0156549	0.3041889	0.7679057	1.6664371	2.314857	0.9608934	0.6665376	1.4450612	0.1485562	2.2672831	0.3454963
<i>Herpetacarus eloisae</i>	0.3800964	0.8915142	0.3502331	0.6828235	1.3672393	2.1274321	-0.574489	0.3378799	1.7067955	0.0903966	1.2367213	0.0877434
<i>Paratrombicula goffi</i>	0.3391507	1.0092368	0.3567401	0.725429	2.3172185	1.6389171	-0.7114	0.5641421	1.2652529	0.2064802	1.8170982	0.3942982
<i>Paratrombicula neuquenensis</i>	0.0754509	1.0978368	0.0835304	0.8937832	2.2271714	2.0762696	0.9231324	0.7277736	1.2778918	0.2028403	2.3495424	0.5032775
<i>Quadrasetta chiloensis</i>	0.3147171	1.0074757	0.2969077	0.7731829	-1.659899	2.2893332	0.9588095	0.6658189	1.4432039	0.1490761	2.2637906	0.3461716
<i>Gyropus distinctus</i>	0.6906497	1.1204878	0.5949988	0.5575601	1.5054659	2.8867654	0.9330256	0.5619248	1.6617284	0.0967596	2.0343779	0.1683268
<i>Hoplopleura andina</i>	2.0071249	0.9227521	2.1730476	0.0302614	3.8156857	0.1985641	0.0700159	0.0935617	0.7233945	0.4889537	0.2533933	0.1133616
<i>Agastopsylla boxi</i>	1.1315378	0.7159928	1.5419179	0.1673782	2.5348578	0.2717822	0.0798714	0.0704477	1.0819644	0.2005353	0.2179464	0.0582036
<i>Barreropsylla excelsa</i>	0.8248302	0.9996459	0.809863	0.4353811	1.1344398	2.7841002	1.0954079	0.6769028	1.6159499	0.1061559	-2.422113	0.2312973
<i>Chiliopsylla allophyla</i>	1.1618101	0.9028523	1.2468639	0.2333911	0.6077479	2.9313681	0.6810502	0.3429291	1.9935937	0.047938	1.3531788	0.0089216
<i>Craneopsylla minerva</i>	1.9132592	0.9289054	2.0680259	0.046413	3.7338804	0.0926381	0.0320931	0.0762991	-0.441476	0.6688511	0.1816366	0.1174503
<i>Ctenoparia inopinata</i>	0.3916225	0.6955577	0.5619712	0.3945048	0.9716455	1.7548905	0.3198876	0.1437239	2.1334713	0.0754396	0.6015812	-0.038194
<i>Ctenoparia jordani</i>	0.2655034	0.9854139	0.2666693	0.7926154	1.6658724	2.1968792	0.9017823	0.6237863	1.4474586	0.1479303	2.1243809	0.3208164
<i>Ctenoparia topallii</i>	-0.266538	0.7155397	0.3726352	0.660314	1.6689699	1.135894	0.2485753	0.1324827	1.8145473	0.0975194	0.5082366	0.0110859
<i>Delostichus coxalis</i>	0.1946205	0.8596065	0.2798335	0.6738622	1.8794182	1.4901773	0.3687636	0.1770714	1.9772914	0.0741515	0.7158173	-0.02171
<i>Delostichus phyllotis</i>	0.0677397	0.8932502	0.0330561	0.5416734	1.6829986	1.8184779	0.4370268	0.2070034	-2.040416	0.0562839	-0.842746	0.0313076
<i>Delostichus smiti</i>	0.5145947	0.8489861	0.6575559	0.6796689	2.1785769	1.1493874	0.2838239	0.1448522	1.7947535	0.130103	0.5677289	8.12E-05

<i>Ectinorus chilensis</i>	0.2576381	0.8054411	0.3800441	0.647593	1.8362736	1.3209974	0.2775582	0.1361668	1.9400312	0.0829046	0.5444401	0.0106762
<i>Ectinorus cocyti</i>	0.6478452	1.1073459	0.5687674	0.573973	1.5225129	2.8182034	0.9008607	0.5346894	1.6862123	0.0919309	1.9488327	0.1471113
<i>Ectinorus martini</i>	1.035368	1.0760249	0.7794186	0.4911133	1.0736021	3.1443381	0.8209314	0.442776	1.8668834	0.0635252	1.6887564	0.0468937
<i>Ectinorus onychius</i>	1.1479334	0.7529395	1.4821824	0.298092	2.6236677	0.3278009	0.0615691	0.06311	0.9744771	0.1562476	0.1852624	0.0621243
<i>Hectopsylla cypha</i>	1.1963836	0.7472663	1.6012813	0.1205201	2.6609986	0.2682314	0.1047425	0.0852417	-1.208203	0.2598883	0.2718132	0.0623281
<i>Leptopsylla segnis</i>	0.9775165	0.8105732	1.2456858	0.2656899	2.5662107	0.6111777	0.1847913	0.1180168	1.5356051	0.1326636	-0.4161	0.0465175
<i>Listronius ulus</i>	0.9138213	0.7720557	1.2107326	0.2555505	2.4270228	0.5993801	0.1780996	0.113125	1.5910783	0.1150367	0.3998205	0.0436212
<i>Neotyphloceras chilensis</i>	0.2709061	0.6697949	-0.461972	0.5001676	1.5836801	1.0418678	0.1550403	0.0809334	1.8306229	0.0962385	0.3136669	0.0035863
<i>Neotyphloceras crassispina</i>	0.4029741	0.5514182	0.7356752	0.4694578	-1.483734	0.6777858	0.0208759	0.0417951	-0.485409	0.6171762	0.1027927	0.061041
<i>Neotyphloceras pardinasi</i>	0.2894324	1.0297231	0.3050728	0.7649426	2.3076527	1.7287879	0.7233244	0.5653288	1.2797391	0.2015921	1.8313485	0.3846998
<i>Nosopsyllus fasciatus</i>	0.3930472	0.8920897	0.4383707	0.6654685	1.3554164	2.1415108	0.6614448	0.4040761	-1.649144	0.1005233	1.4534194	0.1305298
<i>Plocopsylla crypta</i>	0.8149774	0.8874686	0.9369543	0.4447338	2.5543839	0.9244292	0.3148008	0.1823799	1.6496121	0.1204283	0.6722589	0.0426574
<i>Plocopsylla diana</i>	0.0271451	1.1311534	0.0167436	0.7685466	2.1898748	2.244165	0.9653745	0.7203813	1.3420163	0.1823725	2.3772959	0.4465469
<i>Plocopsylla lewisi</i>	0.6747349	0.7668572	-1.005573	0.3661226	2.1777473	0.8282775	0.1259383	0.0772195	1.6458694	0.1354936	0.2772857	0.025409
<i>Plocopsylla reigi</i>	0.5910413	0.7345037	-0.791013	0.4553444	2.0306422	0.8485596	0.2483829	0.1489906	1.6295652	0.1187678	0.5403991	0.0436332
<i>Plocopsylla viracocha</i>	-0.623682	0.7656782	0.6560176	0.6926484	2.1243837	0.8770196	0.1826736	0.1150769	1.4396249	0.1401194	0.4082201	0.042873
<i>Plocopsylla wolffsohni</i>	0.6917741	0.7339065	0.9632325	0.3529776	2.1302044	0.7466563	0.1952704	0.1132996	1.7207887	0.0859399	0.4173335	0.0267928
<i>Sphinctopsylla ares</i>	0.6005932	0.6081418	1.0048557	0.2391323	0.5913427	1.7925292	0.1284226	0.0575921	-2.193202	0.0688506	-0.241301	0.0155442
<i>Tetrapsyllus amplus</i>	1.0083279	0.7932525	1.2659537	0.2142837	2.5630741	0.5464184	0.2016977	0.1387336	1.4310626	0.1623447	0.4736105	0.0702152
<i>Tetrapsyllus bleptus</i>	1.1122686	0.9694948	1.2334932	0.3262126	3.0124435	0.7879062	0.1976138	0.137064	1.3720256	0.1828045	0.4662544	0.0710268
<i>Tetrapsyllus corfidii</i>	0.5210324	0.7555243	0.5881532	0.3777786	-0.959768	2.0018327	-0.298985	0.1210638	2.4038305	0.0279523	0.5362657	0.0617042
<i>Tetrapsyllus rhombus</i>	0.5201603	0.6262856	0.846374	0.3473015	-0.707337	1.7476576	0.2091936	0.0835767	2.4584038	0.0352977	0.3730009	0.0453862
<i>Tetrapsyllus satyrus</i>	0.3501658	0.8610947	0.4220414	0.6834127	2.0378804	1.3375489	0.4585595	0.311875	1.5056163	0.1340795	1.0698233	0.1527043
<i>Tetrapsyllus simulans</i>	-1.454033	0.8769173	1.6639552	0.0967068	3.1727592	0.2646933	0.1684641	0.1363558	1.2262675	0.2267999	0.4357165	0.0987882
<i>Tetrapsyllus tantillus</i>	0.2853357	0.6307175	-0.460781	0.6876999	1.5215193	0.9508478	0.0812414	0.0579677	1.3808412	0.1885886	0.1948561	0.0323733
Overall	0.7115648	0.1051469	6.7693826	1.96E-08	0.9176489	0.5054807	0.1642721	0.014342	11.427772	1.74E-23	-0.192382	0.1361623
Hantavirus	0.6093777	0.7278416	0.8145942	0.4405501	-2.035921	0.8171655	-0.241313	0.1431237	1.6394168	0.1212722	0.5218304	0.0392043
Overall including hantavirus	0.7125233	0.1040118	6.8525302	1.16E-08	0.9163827	-0.508664	0.1646618	0.0142168	11.556496	3.42E-25	0.1925262	0.1367974
Phylogenetic Distance												
<i>Ixodes abrocomae</i>	0.3779924	1.3133268	0.2865399	0.7768048	2.1960808	2.9520657	10.892247	5.7729329	1.8822175	0.0607173	22.206987	0.4224937
<i>Ixodes sigelos</i>	0.8598131	1.105553	0.7393316	0.540142	3.0266573	1.307031	2.4497413	2.7317736	0.9900954	0.3727521	7.8039192	2.9044365
<i>Androlaelaps farenholzi</i>	0.9174316	1.5096951	0.5189777	0.4916658	2.0415163	3.8763796	10.184704	5.3580408	-1.894017	0.0623549	20.686271	0.316863
<i>Argentinacarus expansus</i>	2.3380771	2.689609	0.7689369	0.4616686	2.9334597	7.6096139	-17.26071	10.997012	1.8564447	0.090365	38.814458	4.2930366
<i>Herpetacarus eloisae</i>	3.9103899	2.8324171	1.3529532	0.1800774	1.6410457	9.4618255	23.287778	12.156162	2.1950789	0.0406596	47.113417	0.5378614
<i>Paratrombicula goffi</i>	1.3679308	2.0903813	0.5462345	0.6008125	2.7291413	5.4650028	-14.4404	8.52597	1.7620878	0.0839461	31.150994	2.2701941
<i>Paratrombicula neuquenensis</i>	2.1213373	3.3664821	0.3967447	0.6967848	4.4768464	8.7195209	-18.02191	13.835679	1.6499563	0.134866	45.139343	9.095523
<i>Quadrasetta chiloensis</i>	2.2130091	2.5365655	0.778609	0.455836	2.7585679	7.1845862	16.829326	10.450145	1.8894595	0.0834952	37.311234	3.652583
<i>Hoplopleura andina</i>	2.0780582	1.8841363	1.1092804	0.2691942	1.6147811	5.7708976	21.147022	10.956353	1.9279271	0.0540241	42.621079	0.3270359

<i>Agastopsylla boxi</i>	1.1493431	1.6026681	0.4524713	0.6730885	1.9918285	4.2905148	7.9596009	4.4299336	1.8331393	0.0678251	16.642111	0.7229095
<i>Barreropysylla excelsa</i>	1.245689	1.4685311	0.802128	0.4298265	-1.632579	4.123957	10.918298	5.4550863	2.0532328	0.043821	-21.61007	0.2265251
<i>Chiliopsylla allophyla</i>	2.1023163	1.6320812	1.2378383	0.2254421	-1.096504	5.3011366	12.217296	5.8121648	2.2442522	0.0322349	23.608929	0.8256619
<i>Craneopsylla minerva</i>	0.4326654	1.516307	0.1167259	0.6247459	2.5392417	3.4045726	7.2939911	4.2827224	1.6793856	0.1029778	15.687973	1.0999906
<i>Ctenoparia inopinata</i>	0.2251974	1.0337579	0.281658	0.5356665	1.8009307	2.2513256	4.4738047	2.8255048	1.5759951	0.091556	10.011692	1.064083
<i>Ctenoparia jordani</i>	0.3436557	1.2742161	0.2146385	0.8078821	2.1537619	2.8410733	7.0029327	3.9353044	1.7782366	0.0764734	14.715988	0.7101221
<i>Ctenoparia topallii</i>	0.3137635	1.0921694	0.2444357	0.6868125	2.4543762	1.8268493	4.6799906	3.1897402	1.3888849	0.1673045	10.931766	1.5717853
<i>Delostichus coxalis</i>	0.9697609	1.1995633	0.8391535	0.4788012	3.3208618	1.38134	3.4283197	3.0703003	1.1089606	0.315716	9.4459977	2.5893582
<i>Delostichus phyllotis</i>	1.2842259	1.2014491	0.9960008	0.3512402	3.6390229	1.0705711	3.7510397	3.3169637	1.1528078	0.3573563	10.252169	2.7500897
<i>Delostichus smiti</i>	1.1941195	1.299494	0.9837369	0.399187	-3.741081	1.352842	2.7430073	3.2264557	0.7877002	0.4804551	9.0667443	3.5807297
<i>Ectinorus chilensis</i>	0.6560867	1.1151771	0.3558725	0.7281688	2.8417936	1.5296201	5.0094807	3.447855	1.5876352	0.1776377	11.767152	1.7481908
<i>Ectinorus martini</i>	0.8572507	0.9440687	0.8763075	0.4127707	2.7075913	0.9930899	2.4622903	2.3890451	1.0830893	0.3483067	7.1447326	2.2201521
<i>Ectinorus onychius</i>	0.831016	1.3547144	0.4753655	0.6530287	1.8241754	3.4862073	7.3040957	3.8723368	1.9080511	0.0581641	14.893736	0.2855449
<i>Hectopsylla cypha</i>	0.9779161	1.3479052	0.6646698	0.5245603	1.6639295	3.6197618	9.6010702	4.7537396	2.0434907	0.0426957	18.918229	0.2839117
<i>Hectopsylla suarezi</i>	0.8757887	1.5493911	0.2610131	0.4087159	2.1609621	3.9125395	8.4569295	4.1394085	1.9224617	0.0716339	16.570021	-0.343838
<i>Leptopsylla segnis</i>	3.1564318	2.7642162	0.342795	0.1962955	2.2613323	8.5741959	12.507417	6.8152849	-1.373385	0.3118217	-25.86513	0.8502956
<i>Listronius ulus</i>	0.5244251	1.6228387	0.0849176	0.7048558	2.6562804	3.7051305	-7.509724	4.5315774	1.6601594	0.097503	16.391453	1.3720046
<i>Neotyphloceras chilensis</i>	0.6126993	1.041346	0.6413347	0.5757909	2.6537001	1.4283014	-2.213199	2.5803098	0.8148243	0.4572443	7.2705132	2.8441152
<i>Neotyphloceras crassispina</i>	0.0939403	0.9493851	0.1160634	0.5886572	1.9547008	1.7668202	-1.273764	2.2007489	-0.558271	0.3611088	5.5871527	3.0396246
<i>Neotyphloceras pardinasi</i>	0.4009385	1.3832353	0.2203436	0.7590099	2.3101528	3.1120298	8.2231515	4.5298045	1.8201761	0.068881	17.101405	0.6551021
<i>Nosopsyllus fasciatus</i>	0.9736392	1.1864716	0.8998033	0.4269892	3.2990809	1.3518024	2.0275736	2.8580287	0.6711872	0.5228659	7.6292069	3.5740597
<i>Plocopsylla crypta</i>	1.6099732	1.3151659	1.2219939	0.2455249	-4.187651	0.9677047	-2.586571	3.4080768	0.7384407	0.4833608	9.2662787	4.0931368
<i>Plocopsylla diana</i>	1.2348176	1.2193709	0.9927363	0.3612084	3.6247405	1.1551054	4.1241714	3.6675559	1.0684728	0.33513	11.312449	3.0641061
<i>Plocopsylla lewisi</i>	1.7802539	2.1475187	0.4795235	0.5630119	2.4288054	5.9893132	10.106043	5.8829152	-1.766292	0.0799089	21.636345	1.4242587
<i>Plocopsylla reigi</i>	1.3040927	1.5068073	0.8006191	0.4466812	1.6491953	4.2573808	11.084873	5.5679954	2.0162331	0.0460631	21.997943	0.1718022
<i>Plocopsylla viracocha</i>	0.4774182	1.461013	0.2566757	0.7423129	2.3861147	3.340951	7.5730901	4.3182142	1.7526876	0.0809609	16.036635	0.8904543
<i>Plocopsylla wolffsohni</i>	0.6954375	1.1293609	0.6009129	0.6212033	2.9089442	1.5180692	3.0943712	2.9319575	1.0348837	0.2515029	8.8409023	2.6521598
<i>Pulex irritans</i>	124.3964	156202.44	0.0007963	0.9993647	306026.76	306275.55	424.86856	497986.83	0.0008526	0.9993197	976461.12	975611.38
<i>Sphinctopsylla ares</i>	1.0631565	1.0319644	1.0230093	0.1556715	0.9594566	3.0857697	4.4700723	2.5725801	1.6804269	0.066004	9.5122367	0.5720921
<i>Tetrapsyllus amplus</i>	0.6104779	1.3698058	0.3761855	0.7162903	2.0742922	3.2952481	9.4670692	4.9956477	1.9168348	0.0563304	19.258359	0.3242203
<i>Tetrapsyllus bleptus</i>	199.05889	66462.725	0.0028762	0.9977051	130065.49	130463.61	1227.4668	401556.59	0.0029405	0.9976538	788263.92	785808.99
<i>Tetrapsyllus corfidii</i>	0.7849444	0.9355698	0.7321573	0.5950795	2.6186274	1.0487387	2.1988002	2.2547499	1.0397443	0.3358476	6.6180287	2.2204284
<i>Tetrapsyllus maulinus</i>	296.24731	20701.582	0.2202208	0.8336055	40278.109	40870.603	5061.1138	351501.31	0.2158355	0.8365474	693991.03	683868.8
<i>Tetrapsyllus rhombus</i>	0.3027385	1.175382	0.0331549	0.5544399	-2.000968	2.6064449	3.1019383	2.8055385	-0.925735	0.2099532	8.6006928	2.3968162
<i>Tetrapsyllus satyrus</i>	1.1834714	1.0865749	1.0828111	0.2799399	-3.313119	0.9461763	2.9175696	2.912073	1.0376011	0.3175738	8.6251278	2.7899886
<i>Tetrapsyllus simulans</i>	0.6508754	1.6823169	0.2728989	0.6769446	2.6464052	3.948156	10.772605	6.2038734	1.7426926	0.0825966	22.931974	1.3867631
<i>Tetrapsyllus tantillus</i>	0.7702536	1.0023026	0.8209693	0.4325586	2.7347306	1.1942234	0.9975845	2.3136047	0.3850129	0.5327634	5.5321664	3.5369973
<i>Tunga bonneti</i>	0.2923993	1.4535622	0.2052307	0.838239	2.5565303	3.1413289	8.7426607	4.8377271	1.8025965	0.0721344	18.224431	0.7391101
Overall	0.2253251	0.1507114	1.5009987	0.2359422	0.5207139	0.0700638	4.8678748	0.4335314	11.215332	2.49E-21	5.7175807	4.0181689

Hantavirus	0.802036	1.2930978	0.4705263	0.6283838	-1.732389	3.336461	6.5806912	3.5275842	1.8345141	0.0687243	13.494629	0.3332467
Overall including hantavirus	- 0.2151242	- 0.1490548	- 1.4486609	- 0.2449645	- 0.5072661	- 0.0770178	- 4.8743711	- 0.4286253	- 11.360169	- 1.49E-22	- 5.7144612	- 4.0342809