**Supplementary material S2**

List of selected mammalian species and some important conservation characteristics.

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| **Species** | **Scientific****name** | **Conservation status** | **Recognized ecological role in the literaturec** | **Meaning or impact to humansd** |
| **IUCNa** | **National****legislationb** |
| Pampas cat | *Leopardus colocolo* | NT | NT | - | Conflictretaliation for poultry predation |
| Guanaco |  *Lama guanicoe* | LC | V | Maintaining ecosystem function, contributing to the food chain  | Tourist attractionIllegal huntingPredation by feral dogs |
| Chilla fox | *Pseudalopex griseus* | LC | LC | Generalist canid | - |
| Culpeo fox | *Pseudalopex culpaeus* | LC | LC | Generalist canid | Tourist attraction |
| Darwin’s leaf-eared mouse | *Phillotys darwini* | LC | - | Habitat generalist | - |
| Elegant fat-tailed mouse opossum | *Thylamys elegans* | LC | R | Important predator of arthropod species and some small vertebrates | - |

a IUCN Red List status categories: (NT) near threatened, (LC) least concern.

b The National Catalogue of Threatened Species is regulated by Presidential Decree No. 42. It includes the following categories: Critically endangered (CE), Insufficient data (ID), Endangered (E), Extinct (E), Safe (S), Insufficiently known (IK), Least concern (LC), Near threatened (NT), Rare (R) and Vulnerable (V). The Chilean national status was determined by the species conservation status according to the Ministry of the Environment. The national Red List Status was consulted in the list of species in Chile according to the conservation status of the Ministry of the Environment.

c The ecological roles were drawn from González *et al*. (2006) for the guanaco, Cofré & Marquet (1999) for the Chilla fox, Acosta-Jamed & Simonetti (2004) for the culpeo fox, Cofré & Marquet (1999) for Darwin’s leaf-eared mouse and Palma (1997) for the elegant fat-tailed mouse opossum. The Pampas cat has been largely unstudied (Napolitano *et al*. 2008), although it is threatened. The guanaco is emblematic of the park, and in the Atacama, it is affected by wild dogs and by roads that fragment populations (González *et al*. 2006). Habitat loss is considered the major threat to the Pampas cat (Espinosa *et al*. 2014). The elegant fat-tailed mouse opossum is considered of least concern by the IUCN; however, numerous populations are in decline in Chile due to economic activity (Solari & Teta 2008).

d The meaning or impact to humans were drawn from Espinosa *et al*. (2014) for the Pampas cat, González *et al*. (2006) for the guanaco, and Cerda & Losada (2013) for the culpeo fox. No relationship with humans has been documented for the other species.

**References**

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