**Supporting information for**

**Medium-sized exotic prey create novel food webs: the case of predators and scavengers consuming lagomorphs**

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**Table S2. Detailed results of the four meta-analyses performed in this study**. Estimate is the effect size interpreted as interaction strength. The first four results correspond to the four separated meta-analysis: lagomorphs as prey, most consumed preys in presence of lagomorphs, random preys in presence of lagomorphs and the most consumed preys in absence of lagomorphs. The results for each moderator variables correspond to the analysis of lagomorphs as exotic preys in the diet of the predators. Signif. codes $p$-value: '***'=0> $p$ >0.001, '**'=0.001> $p$ >0.01, '*'=0.01> $p$ >0.05, '.'= 0.05> $p$ >0.1, ' '= $p$>0.1.

**Results for the 4 separated meta-analysis performed with each item prey class**

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| | estimate | se | zval | pval | ci.lb | ci.ub | |
| **Lagomorphs** | 0.2047 | 0.0146 | 14.0487 | <.0001 | 0.1762 | 0.2333 | *** |

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| | estimate | se | zval | pval | ci.lb | ci.ub | |
| **Native w Lagomorphs** | 0.1649 | 0.0133 | 12.4167 | <.0001 | 0.1389 | 0.1909 | *** |

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| | estimate | se | zval | pval | ci.lb | ci.ub | |
| **Native w/o Lagomorphs** | 0.2391 | 0.0320 | 7.4790 | <.0001 | 0.1764 | 0.3017 | |

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| | estimate | se | zval | pval | ci.lb | ci.ub | |
| **Random Prey** | 0.0373 | 0.0062 | 5.9985 | <.0001 | 0.0251 | 0.0495 | *** |

**Results for the lagomorphs and predator interaction separated with moderator variables**

**Moderator variable= lagomorph species consumed**

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| *Lepus europaeus* | 0.1752 | 0.0229 | 7.6558 | <.0001 | 0.1304 | 0.2201 | *** |
| *Oryctolagus cuniculus* | 0.2245 | 0.0188 | 11.9686 | <.0001 | 0.1877 | 0.2613 | *** |

**Moderator variable = Predator species consuming Lagomorphs**

| | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| *Accipiter fasciatus* | 0.3000 | 0.0836 | 3.5877 | 0.0003 | 0.1361 | 0.4639 | *** |
| *Aquila audax* | 0.3049 | 0.0385 | 7.9260 | <.0001 | 0.2295 | 0.3803 | *** |
| *Asio flammeus* | 0.6071 | 0.2040 | 2.9762 | 0.0029 | 0.2073 | 1.0070 | ** |
| *Athene cunicularia* | 0.0010 | 0.1819 | 0.0054 | 0.9957 | -0.3556 | 0.3576 | |
| *Bubo magellanicus* | 0.0748 | 0.0551 | 1.3576 | 0.1746 | -0.0332 | 0.1829 | |
| *Buteo albigula* | 0.0017 | 0.1819 | 0.0092 | 0.9927 | -0.3549 | 0.3583 | |
| *Buteo polyosoma* | 0.1164 | 0.0756 | 1.5393 | 0.1237 | -0.0318 | 0.2647 | |
| *Canis lupus dingo* | 0.1088 | 0.0609 | 1.7869 | 0.0740 | 0.1050 | 0.2282 | . |
| *Caracara plancus* | 0.0540 | 0.1051 | 0.5144 | 0.6070 | -0.1519 | 0.2600 | |
| *Circus approximans* | 0.0958 | 0.1053 | 0.9099 | 0.3629 | -0.1105 | 0.3021 | |
| *Circus assimilis* | 0.5239 | 0.1838 | 2.8499 | 0.0044 | 0.1636 | 0.8843 | ** |
| *Circus cinereus* | 0.0010 | 0.1286 | 0.0078 | 0.9938 | -0.2511 | 0.2531 | |
| *Coragyps atratus* | 0.1318 | 0.1822 | 0.7236 | 0.4963 | -0.2252 | 0.4889 | |
| *Dasyurus geofroyii* | 0.0102 | 0.1820 | 0.0561 | 0.9553 | -0.3465 | 0.3669 | |
| *Dasyurus maculatus* | 0.0783 | 0.0645 | 1.2147 | 0.2245 | -0.0480 | 0.2047 | |
| *Falco berigora* | 0.1864 | 0.0649 | 2.8743 | 0.0040 | 0.0593 | 0.3136 | ** |
| *Falco cenchroides* | 0.0056 | 0.1820 | 0.0310 | 0.9752 | -0.3511 | 0.3624 | |
| *Falco peregrinus* | 0.0151 | 0.1054 | 0.1428 | 0.8864 | -0.1916 | 0.2217 | |
| *Falco subniger* | 0.4030 | 0.1839 | 2.1915 | 0.0284 | 0.0426 | 0.7634 | * |
| *Galactis cuja* | 0.3262 | 0.1355 | 2.4080 | 0.0160 | 0.0607 | 0.5917 | * |
| *Geranoaetus melanoleucus* | 0.4277 | 0.0557 | 7.6739 | <.0001 | 0.3185 | 0.5369 | *** |
| *Haliaeetus leucogaster* | 0.0345 | 0.1827 | 0.1887 | 0.8503 | -0.3236 | 0.3926 | |
| *Haliastur sphenurus* | 0.2481 | 0.0833 | 2.9796 | 0.0029 | 0.0849 | 0.4113 | ** |
| *Hamirostra melanosternon* | 0.3930 | 0.1295 | 3.0349 | 0.0029 | 0.1392 | 0.6469 | ** |
| *Hieraaetus morphnoides* | 0.3252 | 0.0833 | 3.9405 | <.0001 | 0.1634 | 0.4869 | *** |
| *Leopardus colocolo* | 0.0505 | 0.1318 | 0.3832 | 0.7016 | -0.2078 | 0.3088 | |
| *Leopardus geofroyii* | 0.2200 | 0.0920 | 2.3905 | 0.0168 | 0.0396 | 0.4005 | * |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Leopardus jacobitus* | 0.0267 | 0.1829 | 0.1458 | 0.8841 | -0.33318 | 0.3851 | |
| *Lycalopex culpaeus* | 0.2511 | 0.0464 | 5.4080 | <.0001 | 0.1601 | 0.3421 | *** |
| *Lycalopex fulvipes* | 0.0043 | 0.1819 | 0.0236 | 0.9812 | -0.3523 | 0.3609 | |
| *Lycalopex griseus* | 0.1443 | 0.0824 | 1.7500 | 0.0801 | -0.0173 | 0.3059 | . |
| *Lycalopex gymnocercus* | 0.1811 | 0.0783 | 2.3121 | 0.0208 | 0.0276 | 0.3347 | * |
| *Milvago chimango* | 0.0007 | 0.1819 | 0.0036 | 0.9971 | -0.3559 | 0.3572 | |
| *Mustela erminea* | 0.2029 | 0.0705 | 2.8782 | 0.0040 | 0.0647 | 0.3411 | ** |
| *Mustela furo* | 0.6168 | 0.0885 | 6.9681 | <.0001 | 0.4433 | 0.7903 | *** |
| *Mustela nivea* | 0.1111 | 0.1964 | 0.5657 | 0.5716 | -0.2739 | 0.4961 | |
| *Oncifelis guigna* | 0.1317 | 0.1337 | 0.9855 | 0.3244 | -0.1303 | 0.3938 | |
| *Parabuteo unicinctus* | 0.0784 | 0.0748 | 1.0485 | 0.2944 | -0.0682 | 0.2250 | |
| *Phalcoboenus australis* | 0.1153 | 0.1360 | 0.8481 | 0.3964 | -0.1512 | 0.3818 | |
| *Puma concolor* | 0.2702 | 0.0512 | 5.2797 | <.0001 | 0.1699 | 0.3705 | *** |
| *Tyto alba* | 0.0101 | 0.0910 | 0.1105 | 0.9120 | -0.1684 | 0.1885 | |
| *Vulpes vulpes* | 0.1537 | 0.0432 | 3.5591 | 0.0004 | 0.0691 | 0.2384 | *** |
| *Vultur gryphus* | 0.2360 | 0.1829 | 1.2903 | 0.1969 | -0.1225 | 0.5944 | |

**Moderator variable= Family of predators consuming Lagomorphs**

|  | estimate | se | zval | Pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| **Accipitridae** | 0.2657 | 0.0238 | 11.1546 | <.0001 | 0.2190 | 0.3124 | *** |
| **Canidae** | 0.1741 | 0.0271 | 6.4212 | <.0001 | 0.1210 | 0.2273 | *** |
| **Cathartidae** | 0.1837 | 0.1406 | 1.3064 | 0.1914 | -0.0919 | 0.4594 | |
| **Dasyuridae** | 0.0707 | 0.0662 | 1.0680 | 0.2855 | -0.0591 | 0.2006 | |
| **Falconidae** | 0.1229 | 0.0459 | 2.6776 | 0.0074 | 0.0329 | 0.2129 | ** |
| **Felidae** | 0.2182 | 0.0459 | 5.0883 | <.0001 | 0.1341 | 0.3022 | *** |
| **Mustelidae** | 0.3427 | 0.0536 | 6.3986 | <.0001 | 0.2377 | 0.4477 | *** |
| **Strigidae** | 0.0982 | 0.0535 | 1.8335 | 0.0667 | -0.0068 | 0.2031 | . |
| **Tytonidae** | 0.0035 | 0.1145 | 0.0306 | 0.9756 | -0.2209 | 0.2279 | |

**Moderator variable= Class of predator consuming Lagomorphs**

|  | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| **Birds** | 0.2124 | 0.0207 | 10.2559 | <.0001 | 0.1718 | 0.253 | *** |
| **Mammals** | 0.1956 | 0.0289 | 6.7685 | <.0001 | 0.1389 | 0.2522 | *** |

**Moderator variable= Region of each study retrieved where native predators consume Lagomorphs**

|  | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| **Oceania** | 0.2233 | 0.0205 | 10.9158 | <.0001 | 0.1832 | 0.2634 | *** |
| **Southamerica** | 0.1857 | 0.0207 | 8.9773 | <.0001 | 0.1452 | 0.2263 | *** |

**Moderator variable= Region of each study retrieved where native predators consume Lagomorphs**

|  | estimate | se | zval | pval | ci.lb | ci.ub | |
|---|---|---|---|---|---|---|---|
| **Native** | 0.2052 | 0.0162 | 12.6497 | <.0001 | 0.1734 | 0.2370 | *** |
| **Exotic** | 0.2028 | 0.0336 | 6.0360 | <.0001 | 0.1370 | 0.2687 | *** |