Appendix S3 - data used to estimate standard deviation of mass

| **Family** | **species** | **n** | **mean mass (g)** | **sd mass (g)** |
| --- | --- | --- | --- | --- |
| Scincidae | *Ablepharus rueppellii* | 122 | 0.49 | 0.25 |
| Agamidae | *Acanthocercus atricollis* | 121 | 36.78 | 18.24 |
| Lacertidae | *Acanthodactylus aegyptius* | 56 | 1.77 | 0.60 |
| Lacertidae | *Acanthodactylus beershebensis* | 172 | 7.59 | 2.58 |
| Lacertidae | *Acanthodactylus boskianus* | 440 | 7.03 | 3.16 |
| Lacertidae | *Acanthodactylus opheodurus* | 12 | 5.25 | 1.16 |
| Lacertidae | *Acanthodactylus scutellatus* | 194 | 5.11 | 1.62 |
| Agamidae | *Agama agama* | 72 | 42.04 | 24.43 |
| Agamidae | *Agama caudospinosa* | 17 | 78.52 | 30.49 |
| Agamidae | *Agama impalearis* | 15 | 34.61 | 13.47 |
| Agamidae | *Agama lionotus* | 116 | 29.42 | 16.81 |
| Agamidae | *Agama mwanzae* | 15 | 45.83 | 22.59 |
| Agamidae | *Agama planiceps* | 11 | 27.19 | 8.15 |
| Agamidae | *Agama rueppelli* | 32 | 20.76 | 19.01 |
| Lamprophiidae | *Atractaspis engaddensis* | 59 | 46.32 | 32.66 |
| Viperidae | *Bitis caudalis* | 28 | 39.70 | 32.07 |
| Viperidae | *Bitis peringueyi* | 11 | 29.04 | 27.22 |
| Gekkonidae | *Bunopus blanfordii* | 31 | 2.64 | 1.43 |
| Viperidae | *Cerastes cerastes* | 63 | 171.88 | 111.24 |
| Viperidae | *Cerastes gasperettii* | 91 | 140.49 | 83.08 |
| Viperidae | *Cerastes vipera* | 97 | 13.02 | 7.61 |
| Scincidae | *Chalcides guentheri* | 49 | 6.51 | 3.08 |
| Scincidae | *Chalcides ocellatus* | 246 | 11.07 | 7.26 |
| Scincidae | *Chalcides sepsoides* | 49 | 5.09 | 1.56 |
| Chamaeleonidae | *Chamaeleo chamaeleon* | 118 | 35.40 | 18.15 |
| Viperidae | *Crotalus cerastes* | 28 | 93.40 | 61.03 |
| Gekkonidae | *Cyrtopodion scabrum* | 15 | 2.07 | 0.92 |
| Viperidae | *Daboia palaestinae* | 752 | 400.64 | 211.59 |
| Iguanidae | *Dipsosaurus dorsalis* | 16 | 45.44 | 9.36 |
| Colubridae | *Dolichophis jugularis* | 65 | 759.27 | 562.23 |
| Viperidae | *Echis carinatus* | 21 | 82.24 | 100.26 |
| Viperidae | *Echis coloratus* | 381 | 73.89 | 46.05 |
| Viperidae | *Echis pyramidum* | 14 | 76.42 | 80.25 |
| Colubridae | *Eirenis coronella* | 44 | 5.52 | 2.06 |
| Colubridae | *Eirenis decemlineatus* | 35 | 29.24 | 17.53 |
| Colubridae | *Eirenis lineomaculatus* | 18 | 9.66 | 3.43 |
| Colubridae | *Eirenis rothii* | 72 | 3.11 | 1.57 |
| Viperidae | *Eristicophis macmahoni* | 19 | 117.16 | 58.66 |
| Boidae | *Eryx jaculus* | 81 | 95.48 | 74.79 |
| Scincidae | *Eumeces schneideri* | 67 | 62.53 | 25.89 |
| Lacertidae | *Gallotia galloti* | 11 | 14.08 | 3.79 |
| Gekkonidae | *Hemidactylus turcicus* | 160 | 2.58 | 1.42 |
| Colubridae | *Hemorrhois nummifer* | 71 | 138.63 | 137.62 |
| Lacertidae | *Lacerta agilis* | 13 | 12.56 | 5.48 |
| Lacertidae | *Lacerta media* | 34 | 41.14 | 9.68 |
| Lacertidae | *Lacerta viridis* | 25 | 43.71 | 23.64 |
| Typhlopidae | *Letheobia simonii* | 35 | 1.00 | 0.43 |
| Gekkonidae | *Lygodactylus picturatus* | 16 | 1.28 | 0.41 |
| Colubridae | *Lytorhynchus diadema* | 39 | 12.15 | 4.80 |
| Colubridae | *Macroprotodon cucullatus* | 19 | 16.91 | 8.60 |
| Viperidae | *Macrovipera lebetina* | 11 | 367.76 | 329.05 |
| Lamprophiidae | *Malpolon insignitus* | 44 | 464.60 | 386.82 |
| Gekkonidae | *Mediodactylus amictopholis* | 15 | 1.08 | 0.49 |
| Gekkonidae | *Mediodactylus kotschyi* | 148 | 2.70 | 0.94 |
| Lacertidae | *Mesalina guttulata* | 225 | 2.12 | 0.64 |
| Lacertidae | *Mesalina olivieri* | 81 | 2.11 | 0.67 |
| Lamprophiidae | *Micrelaps muelleri* | 22 | 9.28 | 4.39 |
| Leptotyphlopidae | *Myriopholis macrorhyncha* | 19 | 1.47 | 0.57 |
| Elapidae | *Naja melanoleuca* | 12 | 400.69 | 219.18 |
| Natricidae | *Natrix tessellata* | 99 | 80.72 | 34.26 |
| Scincidae | *Ophiomorus latastii* | 21 | 2.82 | 1.12 |
| Lacertidae | *Ophisops elegans* | 280 | 2.32 | 0.94 |
| Agamidae | *Paralaudakia caucasia* | 19 | 49.75 | 19.11 |
| Gekkonidae | *Phelsuma madagascariensis* | 13 | 24.75 | 11.77 |
| Lacertidae | *Phoenicolacerta kulzeri* | 12 | 6.84 | 2.24 |
| Lacertidae | *Phoenicolacerta laevis* | 177 | 4.92 | 2.10 |
| Colubridae | *Platyceps collaris* | 62 | 42.94 | 26.25 |
| Colubridae | *Platyceps elegantissimus* | 12 | 17.03 | 11.03 |
| Colubridae | *Platyceps karelini* | 64 | 41.79 | 35.26 |
| Colubridae | *Platyceps rhodorachis* | 30 | 39.59 | 29.26 |
| Lacertidae | *Podarcis erhardii* | 96 | 6.00 | 1.66 |
| Lacertidae | *Podarcis gaigeae* | 114 | 8.28 | 5.06 |
| Lacertidae | *Podarcis melisellensis* | 16 | 6.28 | 1.71 |
| Lacertidae | *Podarcis muralis* | 17 | 5.94 | 1.82 |
| Lamprophiidae | *Psammophis schokari* | 51 | 46.54 | 31.70 |
| Viperidae | *Pseudocerastes fieldi* | 38 | 278.22 | 171.21 |
| Anguidae | *Pseudopus apodus* | 34 | 580.93 | 148.32 |
| Agamidae | *Pseudotrapelus sinaitus* | 92 | 14.17 | 4.57 |
| Phyllodactylidae | *Ptyodactylus guttatus* | 168 | 9.98 | 3.64 |
| Phyllodactylidae | *Ptyodactylus hasselquistii* | 14 | 8.77 | 3.78 |
| Phyllodactylidae | *Ptyodactylus puiseuxi* | 44 | 9.49 | 3.28 |
| Colubridae | *Rhynchocalamus melanocephalus* | 40 | 9.57 | 3.96 |
| Scincidae | *Scincus scincus* | 14 | 22.83 | 5.36 |
| Colubridae | *Spalerosophis diadema* | 63 | 190.71 | 156.45 |
| Agamidae | *Stellagama stellio* | 192 | 63.77 | 18.21 |
| Gekkonidae | *Stenodactylus doriae* | 30 | 5.34 | 2.01 |
| Gekkonidae | *Stenodactylus petrii* | 38 | 4.37 | 2.16 |
| Gekkonidae | *Stenodactylus sthenodactylus* | 189 | 2.73 | 1.36 |
| Colubridae | *Telescopus dhara* | 11 | 46.81 | 30.98 |
| Colubridae | *Telescopus fallax* | 60 | 23.33 | 12.20 |
| Lacertidae | *Timon lepidus* | 10 | 101.14 | 35.41 |
| Scincidae | *Trachylepis vittata* | 155 | 7.90 | 3.31 |
| Agamidae | *Trapelus mutabilis* | 90 | 12.29 | 3.95 |
| Agamidae | *Trapelus savignii* | 113 | 15.66 | 8.38 |
| Gekkonidae | *Tropiocolotes nattereri* | 79 | 0.32 | 0.26 |
| Agamidae | *Uromastyx aegyptia* | 45 | 981.73 | 502.90 |
| Agamidae | *Uromastyx ornata* | 44 | 140.38 | 39.88 |
| Varanidae | *Varanus griseus* | 36 | 1066.18 | 358.85 |
| Viperidae | *Vipera ammodytes* | 10 | 345.65 | 443.95 |
| Viperidae | *Vipera berus* | 10 | 64.98 | 24.07 |
| Elapidae | *Walterinnesia aegyptia* | 14 | 385.91 | 227.98 |
| Typhlopidae | *Xerotyphlops vermicularis* | 112 | 2.23 | 2.07 |

based on 7693 specimens belonging to 102 species in 17 families.

No zoo animals, no specimens known to be juveniles or juvenile sized included (only specimens larger than the smallest specimen known to be adult included)

867 specimens were measured by Shai Meiri, 6826 measured by museum staff upon entering the collection.

Minimum sample size per species: 10 individuals. The dataset does not contain dibamids, amphisbaenians or Anilioideans, or Sphenodons. It contains members of Scolecophidia and Alethinophidia, both Caenophidia and booids, anguimorphs, scincomorphs, acrodonts, gekkotans, and lacertoids.

All specimens measured by SM were measured with digital calipers (to 0.01mm precision) and weighed (with spring or digital scales, to 0.1 and 1g precision for specimens up to 20g and above 20g, respectively).

Measurements were conducted in Greece (both *Podarcis* species and most *Mediodactylus* specimens) and in Israel (all other species, and a minority of *Mediodactylus* individuals) between 2008 and 2015.