Supplemental Material

Research Article

Love bites – Do venomous arachnids make safe pets?

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**#** Equal contribution

**Table S1.** Popular arachnid husbandry books that were used to estimate the popularity of arachnid genera as pets.

|  |  |  |
| --- | --- | --- |
| **Reference** | **Origin of authors** | **Topic** |
| Webb, 1993 | UK | Theraphosids |
| Kallas et al., 1996 | Germany | Invertebrates |
| Axelrod, 1999 | USA | Theraphosids & Scorpions |
| von Wirth, 1999 | Germany | Theraphosids |
| Webb and Schiejok, 1999 | UK & Germany | Scorpions |
| Dost, 2000 | Germany | Exotic pets |
| Rubio, 2000 | USA | Scorpions |
| Tinter, 2001 | Germany | Theraphosids |
| Klaas, 2007 | Germany | Theraphosids |
| Rafn, 2007 | Denmark | Theraphosids |
| Manns, 2008 | Germany | Theraphosids |
| von Wirth, 2008 | Germany | Theraphosids |
| Watz, 2008 | Germany | Scorpions |
| von Wirth, 2011 | Germany | Theraphosids |
| Mahsberg et al., 2012 | Germany | Scorpions |
| Cléton et al., 2015 | France | Theraphosids |
| Meinhardt, 2016 | Germany | Theraphosids |
| Schmitt, 2019 | Germany | Theraphosids |

**Table S2.** This table provides details about the families and species which were responsible for the 296 recorded spider bites. The number of cases per genus and the number of species within each genus that were responsible for envenomations is also indicated. Potentially dangerous spider genera (Hauke and Herzig, 2017) are shown in red. Please note that all reported spider names were checked and where appropriate updated according to the World Spider Catalog (World Spider Catalog, 2020) (except for the genus *Haplopelma*, as the recent nomenclatorial changes mentioned in the World Spider Catalog were insufficiently justified and not published under peer-review).

|  |  |  |  |
| --- | --- | --- | --- |
| **Family** | **Genus** | **Cases/genus** | **Species/genus** |
| Ctenidae | *Phoneutria* | 1 | 1 |
| Halonoproctidae | *Bothriocyrtum* | 1 | 1 |
| Lycosidae | *Hogna* | 1 | 1 |
| Miturgidae | *Syspira* | 1 | 1 |
| Theraphosidae | *Acanthoscurria* | 3 | 1 |
| Theraphosidae | *Aphonopelma* | 9 | 6 |
| Theraphosidae | *Avicularia* | 13 | 5 |
| Theraphosidae | *Brachypelma* | 7 | 2 |
| Theraphosidae | *Caribena* | 13 | 2 |
| Theraphosidae | *Ceratogyrus* | 1 | 1 |
| Theraphosidae | *Chilobrachys* | 1 | 1 |
| Theraphosidae | *Chromatopelma* | 4 | 1 |
| Theraphosidae | *Davus* | 1 | 1 |
| Theraphosidae | *Ephebopus* | 2 | 2 |
| Theraphosidae | *Eucratoscelus* | 2 | 1 |
| Theraphosidae | *Eupalaestrus* | 1 | 1 |
| Theraphosidae | *Grammostola* | 39 | 6 |
| Theraphosidae | *Haplopelma* | 12 | 6 |
| Theraphosidae | *Heteroscodra* | 11 | 1 |
| Theraphosidae | *Hysterocrates* | 9 | 4 |
| Theraphosidae | *Iridopelma* | 2 | 1 |
| Theraphosidae | *Lasiodora* | 2 | 1 |
| Theraphosidae | *Neoholothele* | 2 | 1 |
| Theraphosidae | *Nhandu* | 2 | 1 |
| Theraphosidae | *Omothymus* | 6 | 2 |
| Theraphosidae | *Ornithoctonus* | 1 | 1 |
| Theraphosidae | *Orphnaecus* | 2 | 1 |
| Theraphosidae | *Pamphobeteus* | 2 | 2 |
| Theraphosidae | *Pelinobius* | 7 | 1 |
| Theraphosidae | *Phlogiellus* | 1 | 1 |
| Theraphosidae | *Phormictopus* | 3 | 1 |
| Theraphosidae | *Poecilotheria* | 49 | 10 |
| Theraphosidae | *Psalmopoeus* | 10 | 3 |
| Theraphosidae | *Psednocnemis* | 1 | 1 |
| Theraphosidae | *Pseudoclamoris* | 1 | 1 |
| Theraphosidae | *Pterinochilus* | 34 | 5 |
| Theraphosidae | *Selenocosmia* | 3 | 3 |
| Theraphosidae | *Selenotypus* | 1 | 1 |
| Theraphosidae | *Stromatopelma* | 4 | 1 |
| Theraphosidae | *Theraphosa* | 3 | 2 |
| Theraphosidae | *Thrixopelma* | 1 | 1 |
| Theraphosidae | *Tliltocatl* | 18 | 2 |
| Theraphosidae | *Vitalius* | 1 | 1 |
| Theraphosidae | *Ybyrapora* | 1 | 1 |
| Theridiidae | *Latrodectus* | 2 | 2 |
| Theridiidae | *Steatoda* | 3 | 2 |
| Trechaleidae | *Cupiennius* | 2 | 1 |
|  | **Total** | **296** | **95** |

**Table S3.** This table provides details about the families and species which were responsible for the 58 recorded scorpion stings. The number of cases per genus and the number of species within each genus that were responsible for envenomations is also indicated. Potentially dangerous scorpion genera (Hauke and Herzig, 2017) are shown in red. Please note that all reported scorpion names were checked and where appropriate updated according to “The Scorpion Files” (Rein, 2020).

|  |  |  |  |
| --- | --- | --- | --- |
| **Family** | **Genus** | **Cases/genus** | **Species/genus** |
| Bothriuridae | *Bothriurus* | 1 | 1 |
| Buthidae | *Androctonus* | 2 | 2 |
| Buthidae | *Babycurus* | 3 | 1 |
| Buthidae | *Centruroides* | 10 | 3 |
| Buthidae | *Grosphus* | 1 | 1 |
| Buthidae | *Heteroctenus* | 1 | 1 |
| Buthidae | *Hottentotta* | 5 | 3 |
| Buthidae | *Leiurus* | 1 | 1 |
| Buthidae | *Lychas* | 4 | 3 |
| Buthidae | *Olivierus* | 4 | 2 |
| Buthidae | *Parabuthus* | 1 | 1 |
| Buthidae | *Tityus* | 2 | 2 |
| Caraboctonidae | *Caraboctonus* | 1 | 1 |
| Chactidae | *Uroctonus* | 2 | 1 |
| Euscorpiidae | *Euscorpius* | 3 | 2 |
| Euscorpiidae | *Tetratrichobothrius* | 1 | 1 |
| Hormuridae | *Hadogenes* | 1 | 1 |
| Scorpionidae | *Heterometrus* | 4 | 2 |
| Scorpionidae | *Pandinoides* | 1 | 1 |
| Scorpionidae | *Pandinus* | 7 | 1 |
| Scorpionidae | *Scorpio* | 2 | 1 |
| Vaejovidae | *Paravaejovis* | 1 | 1 |
|  | **Total** | **58** | **33** |

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