

Love bites – Do venomous arachnids make safe pets?

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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	<i>Phoneutria</i>	1	1
Halonoproctidae	<i>Bothriocyrtum</i>	1	1
Lycosidae	<i>Hogna</i>	1	1
Miturgidae	<i>Syspira</i>	1	1
Theraphosidae	<i>Acanthoscurria</i>	3	1
Theraphosidae	<i>Aphonopelma</i>	9	6
Theraphosidae	<i>Avicularia</i>	13	5
Theraphosidae	<i>Brachypelma</i>	7	2
Theraphosidae	<i>Caribena</i>	13	2
Theraphosidae	<i>Ceratogyrus</i>	1	1
Theraphosidae	<i>Chilobrachys</i>	1	1
Theraphosidae	<i>Chromatopelma</i>	4	1
Theraphosidae	<i>Davus</i>	1	1
Theraphosidae	<i>Epebopus</i>	2	2
Theraphosidae	<i>Eucratoscelus</i>	2	1
Theraphosidae	<i>Eupalaestrus</i>	1	1
Theraphosidae	<i>Grammostola</i>	39	6
Theraphosidae	<i>Haplopelma</i>	12	6
Theraphosidae	<i>Heteroscodra</i>	11	1
Theraphosidae	<i>Hysteroocrates</i>	9	4
Theraphosidae	<i>Iridopelma</i>	2	1
Theraphosidae	<i>Lasiadora</i>	2	1
Theraphosidae	<i>Neoholothele</i>	2	1
Theraphosidae	<i>Nhandu</i>	2	1
Theraphosidae	<i>Omothymus</i>	6	2
Theraphosidae	<i>Ornithoctonus</i>	1	1
Theraphosidae	<i>Orphnaecus</i>	2	1
Theraphosidae	<i>Pamphobeteus</i>	2	2
Theraphosidae	<i>Pelinobius</i>	7	1
Theraphosidae	<i>Phlogiellus</i>	1	1
Theraphosidae	<i>Phormictopus</i>	3	1
Theraphosidae	<i>Poecilotheria</i>	49	10
Theraphosidae	<i>Psalmopoeus</i>	10	3
Theraphosidae	<i>Psednocnemis</i>	1	1
Theraphosidae	<i>Pseudoclamoris</i>	1	1
Theraphosidae	<i>Pterinochilus</i>	34	5
Theraphosidae	<i>Selenocosmia</i>	3	3
Theraphosidae	<i>Selenotypus</i>	1	1
Theraphosidae	<i>Stromatopelma</i>	4	1
Theraphosidae	<i>Theraphosa</i>	3	2
Theraphosidae	<i>Thrixopelma</i>	1	1
Theraphosidae	<i>Tliltocatl</i>	18	2
Theraphosidae	<i>Vitalius</i>	1	1
Theraphosidae	<i>Ybyrapora</i>	1	1
Theridiidae	<i>Latrodectus</i>	2	2
Theridiidae	<i>Steatoda</i>	3	2
Trechaleidae	<i>Cupiennius</i>	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	<i>Bothriurus</i>	1	1
Buthidae	<i>Androctonus</i>	2	2
Buthidae	<i>Babycurus</i>	3	1
Buthidae	<i>Centruroides</i>	10	3
Buthidae	<i>Grosphus</i>	1	1
Buthidae	<i>Heteroctenus</i>	1	1
Buthidae	<i>Hottentotta</i>	5	3
Buthidae	<i>Leiurus</i>	1	1
Buthidae	<i>Lychas</i>	4	3
Buthidae	<i>Olivierus</i>	4	2
Buthidae	<i>Parabuthus</i>	1	1
Buthidae	<i>Tityus</i>	2	2
Caraboctonidae	<i>Caraboctonus</i>	1	1
Chactidae	<i>Uroctonus</i>	2	1
Euscorpiidae	<i>Euscorpius</i>	3	2
Euscorpiidae	<i>Tetratrachobothrius</i>	1	1
Hormuridae	<i>Hadogenes</i>	1	1
Scorpionidae	<i>Heterometrus</i>	4	2
Scorpionidae	<i>Pandinoides</i>	1	1
Scorpionidae	<i>Pandinus</i>	7	1
Scorpionidae	<i>Scorpio</i>	2	1
Vaejovidae	<i>Paravaejovis</i>	1	1
	Total	58	33

Table S4. Detailed information on the four cases of severe envenomations recorded in the present study.

Arachnid species	Victim	Symptoms reported	Treatment received
<i>Poecilotheria fasciata</i>	Male, bitten in hand	Local pain, puncture marks, local bleeding, swelling, local discolouration, nausea, dizziness, unconsciousness (lasting for several hours), weakness, numbness	Called ambulance 70 min after bite and lost consciousness shortly after; received 2 injections and 2 infusions (each not further specified) when ambulance arrived; then transferred to the intensive care unit of the hospital, where he regained consciousness about 3 h after the bite
<i>Poecilotheria subfusca</i>	Male, bitten in leg	Numbness, dizziness, swelling, hot/cold feeling, shakes/trembling, vomiting, unconsciousness (repeatedly and lasting for several hours), muscle cramps	Received calcium just after bite; was brought to the hospital each of the three times when becoming unconscious, spending 5 nights in total in hospital; received injections (not specified)
<i>Poecilotheria regalis</i>	Male, bitten in right thumb	Burning local pain, swelling, redness, generalised pain, muscle cramps, unconsciousness	Received cortisone during first hospital visit; during second hospital visit receiving infusions (not specified), concentrated magnesium, cortisone and antibiotics for 3 days
<i>Pterinochilus murinus</i>	Female, bitten in wrist	Burning local pain, nausea, weakness, tingling feeling, hot/cold feeling, shakes/trembling, swelling, muscle cramps, unconsciousness, breathing difficulties due to chest muscle cramps, numbness, generalised pain	Brought to emergency room after becoming unconscious and received intravenous therapy (not specified), tetanus vaccination and antiallergic drugs

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