Supplementary document S1. Database on bifurcation, duplication and multiplication of tails in natural populations of reptiles.

We considered only data that were provided at least at the genus level and that explicitly originated from natural populations or for which this was likely, as either the authors indicated for other specimens that they were captive animals, or because museum series were examined (even if data were provided only for the specimens with accessory tails). We relaxed these criteria for pre-1900 publications and included also individuals without determination and data that were not explicitly stated as applying to wild individuals if such an origin was plausible. We extracted the following data (if available): species name, number of individuals with accessory tails, number of individuals with bifurcation, duplication, trifurcation, quadruplication, quintuplication and hexaplication, sample size, geographic origin (usually country but may also be oceanic islands), microhabitat, and the year of publication.

Nomenclature follows Cogger (2014) for Australian reptiles and Uetz et al. (2019) for other species regarding generic names, name changes due to priorities and synonymies, and for subspecies identified in the source reference that have been elevated later to full species rank. Name changes due to splitting of taxa into several species were made only if allocation of the data to the new species was obvious from morphological or geographic information provided by the assessed source reference or was already done by other authors. Subspecies names are added if provided by the source publication.

References

Cogger, H.G. (2014): Reptiles & Amphibians of Australia (7th ed.). – CSIRO Publishing, Collingwood.

Uetz, P., P. Freed & J. Hošek (2019): The Reptile Database. – http://www.reptile-database.org, accessed: 9/12/2019.

Supplementary Table S1. Database of reptiles with supernumerary tails reported from natural populations.

Order	Sub-Order	Family	Species	Number of individuals with multiplication	Sample size	Bifurcation	Duplication	Trifurcation & Triplication	Quadruplication	Quintoplication	Hexaplication	No details	Geographic origin	Reference
Crocodylia	Alligatoroidea	Alligatoridae	*Caiman crocodilus*	1 adult male		1							Peru	Ramírez-Bravo et al. 2020
Rynchocephalia	Sphenodontia	Sphenodontidae	*Sphenodon punctatus*	1 subadult, 1 adult	750	2							New Zealand	Dawbin 1962
			Sphenodon punctatus	7 males, 2 females	143	3	4					2	New Zealand	Seligman et al. 2008
			Sphenodon punctatus	1			1						New Zealand	Cree 2014
Squamata	Amphisbaenia	Amphisbaenidae	*Trogonophis wiegmanni*	1		1							unknown	Brindley 1894
	Anguimorpha	Anguidae	*Elgaria multicarinata*	1 adult female		1							USA	Banta 1963
			Ophiodes striatus	1 adult female		1							Brazil	Conzendey et al. 2013
		Varanidae	*Varanus varius*	1			2						Australia	Payen 1991, 1995
	Gekkota	Gekkonidae	*Christinus marmoratus*	1 adult				1					Australia	Crouch 1969
			Gehyra variegata	43	3333	30	7	4		2			Australia	this study
			Gekko japonicus	1 (adult?)		1							Japan	Niimi 1969
			Gekko monarchus	1 small individual		1							Sarawak, Borneo, Malaysia	McKelvy & McKelvy 2012
			Gonatodes albogularis	1 adult male			1						Venezuela	Payen 1991
			Hemidactylus agrius	1 adult female + 1 adult?	64		2						Brazil	Monte de Andrade et al. 2015
			Hemidactylus brookii	1 (adult?)				1					unknown	Hora 1926
			Hemidactylus brookii	1 adult		1							India	Nandi & Raut 1986
			Hemidactylus cf. *brookii*	1 adult		1							India	Chethan Kumar & Srinivasulu 2015
			Hemidactylus cf. *brookii*	1 adult			1						India	Vyas 2016
			Hemidactylus flaviviridis	2				2					India	Das 1932
			Hemidactylus flaviviridis	1			1						India	Sood 1939
			Hemidactylus flaviviridis	2 adult females	19	1		1					India	McCann 1940
			Hemidactylus flaviviridis	2 adults		2							India	Mehra 1963
			Hemidactylus flaviviridis	1 adult male		1							India	Kumbar et al. 2011
			Hemidactylus frenatus	2 adults		2							Hawaii, USA	Chan et al. 1984
			Hemidactylus frenatus	2								2	Indonesia	Strijbosch 1999
			Hemidactylus frenatus	4	74	2	1					1	Mexico	García-Vinalay 2017
			Hemidactylus frenatus	1			1						Honduras	Heyborne & Mahan 2017
			Hemidactylus frenatus	1 adult			1						Bangladesh	Maria & Al-Razi 2018
			Hemidactylus giganteus	1			1						India	Chethan Kumar & Srinivasulu 2015
			Hemidactylus gleadowi	1			1						unknown	Brindley 1894
			Hemidactylus gleadowi	1				1					India	Stuart 1908
			Hemidactylus leschenaultii	1		1							India	Chethan Kumar & Srinivasulu 2015
			Hemidactylus mabouia	1		1							unknown	Gadeau de Kerville 1894, 1908
			Hemidactylus mabouia	1 adult	72	1							Tanzania (whole sample from East Africa)	Loveridge 1920, 1947

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Squamata	Gekkota	Gekkonidae	*Hemidactylus mabouia*	1 adult	45		1						Kenya (whole sample from East Africa)	Loveridge 1947
			Hemidactylus mabouia	1 adult male		1							Brazil	Lema 1962
			Hemidactylus persicus	1 adult				1					Bahrain	Evans & Bellairs 1983, Bellairs & Bryant 1985
			Hemidactylus prashadi	1 adult		1							India	Yankanchi & Kumbar 2016
			Hemitheconyx caudicinctus	1 adult			1						Ghana (unclear; traded individual)	Schlüter 2004
			Lepidodactylus lugubris	1 adult female						1			Hawaii, USA	Chan et al. 1984
			Phyllopezus pollicaris	1 adult male	5	1							Brazil	Filadelfo et al. 2017
			Rhacodactylus trachyrhynchus	1			1						New Caledonia	Gadeau de Kerville 1908
			Stenodactylus sthenodactylus	1 adult female			1						Israel	Ofer et al. 2020
			Tarentola mauritanica	1 subadult								1	France	Otto 1816, 1841
			Tarentola mauritanica	1 adult		1							unknown	Tofohr 1903
			Tarentola mauritanica	1								1	Europe	Strijbosch 1999
		Phyllodactylidae	*Asaccus gallagheri*	1 adult male	2	1							United Arab Emirates	Koleska 2018
			Homonota uruguayensis	3		2	1						unknown (presumably Uruguay)	Vaz-Ferreira & Sierra de Seriano 1965
			Homonota uruguayensis	1 adult	1000	1							Brazil	Abegg et al. 2014
	Iguania	Agamidae	*Agama agama agama*	1 adult male	48	1							Gabon	Gramentz 1999
			Agama lionotus lionotus	1		1							Kenya	Wagner et al. 2009
			*Agama lionotus lionotus***	1 adult female		1							Kenya	Kowalski & Barts 2007
			Agama picturata	1 adult male		1							Ghana	Ofori et al. 2018
			Bronchocela cristatella	1				1					unknown	Brindley 1898
			Hydrosaurus cf. *pustulatus*	1 adult male			1						Philippines	Gaulke & Demegillo 2006
			Hydrosaurus weberi	1		1							Halmahera, Indonesia	Colwell 1993
			Intellagama lesueurii	1								1	unknown	Tofohr 1903
			Intellagama lesueurii	1				1					Australia	Baxter-Gilbert & Riley 2015
			Laudakia tuberculata	1		1							India	Chandra & Mukherjee 1979
			Laudakia tuberculata	1		1							Pakistan	Baig 1988
			Laudakia tuberculata	1		1							India	Kumar et al. 2016
			Paralaudakia caucasica	1 adult female		1							Turkmenistan	Ananjeva & Danov 1991
			Paralaudakia caucasica	1 adult male		1							Turkmenistan	Ananjeva & Danov 1991
		Anolidae (Dactyloidae)	*Anolis bimaculatus*	1 adult male		1							Sint Eustatius, Netherlands Antilles	Najbar & Skawinski 2018
			*Anolis bimaculatus****	1 adult male		1							Sint Eustatius, Netherlands Antilles	Seba 1734
			Anolis carolinensis carolinensis	1		1							USA	Niimi 1965
			Anolis equestris	1 adult male				1					USA	Camper & Camper 2017
			Anolis fitchi	1 adult female		1							Ecuador	Tipantiza-Tuguminago et al. 2019

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Squamata	Iguania	Anolidae (Dactyloidae)	*Anolis grahami*	1				1					Jamaica	Brindley 1894, 1898
			Anolis porcatus	1 adult male		1							Cuba	Iturriaga Monsisbay & Olcha 2016
			Anolis sagrei	1		1							unknown	Goin & Goin 1971
		Crotaphytidae	*Gambelia wislizenii*	1 adult female			1						USA	Switak 2014
		Iguanidae	*Amblyrhynchus cristatus*	1 adult		1							Isla Fernandina, Galapagos Islands, Ecuador	Barr et al. 2019
			Amblyrhynchus cristatus	1 adult		1							Isla Santa Cruz, Galapagos Islands, Ecuador	Barr et al. 2019
			Ctenosaura palearis	1 adult male				1					Guatemala	Ariano-Sánchez & Gil-Escobedo 2016
			Cyclura carinata	4	390	3		1					Caicos, Bahamas	Iverson 1979, Hayes et al. 2012
			Cyclura cychlura	1	59	1							Bitter Guana Cay, Bahamas	Hayes et al. 2012
			Cyclura cychlura	1	99	1							White Bay Cay, Bahamas	Hayes et al. 2012
			Cyclura cychlura	2	310	2							Gaulin Cay, Bahamas	Hayes et al. 2012
			Cyclura rileyi	1	31	1							Pigeon Cay, Bahamas	Hayes et al. 2012
			Cyclura rileyi	1	57	1							Fish Cay, Bahamas	Hayes et al. 2012
			Cyclura rileyi	4	75	2	1	1					White Cay, Bahamas	Hayes et al. 2012
			Cyclura rileyi	8	328	8							Bush Hill Cay, Bahamas	Hayes et al. 2012
			Polychrus cf. *marmoratus**	1		1							Brazil	Marcgrav 1648, Seba 1734, Cuvier et al. 1831
			Sauromalus ater	1 adult female	2	1							USA or Mexico	Koleska et al. 2017b
		Opluridae	*Oplurus cuvieri*	2 adults		1		1					Madagascar	Paulian & Raharijaona 1950
		Phrynosomatidae	*Cophosaurus texanus*	1 adult male				1					USA	Mata-Silva et al. 2010
			Sceloporus occidentalis biseriatus	1 adult female		1							USA	Clark 1973
			Sceloporus uniformis	1 subadult		1							USA	Heyborne & McMullin 2016
			Urosaurus bicarinatus	1 adult female		1							Mexico	Mata-Silva et al. 2013
			Uta stansburiana	4	3729	3		1					USA	Tinkle 1967
		Tropiduridae	*Microlophus albemarlensis*	1 adult male		1							Galápagos Islands, Ecuador	Colwell 1992
			Stenocercus ornatissimus	1		1							Peru	Payen 1991
			Tropidurus catalanensis	1 adult			1						Argentina	Martinelli & Bogan 2013
			Tropidurus semitaeniatus	1 adult female		1							Brazil	Passos et al. 2014
			Tropidurus torquatus group	1 adult male		1							Brazil	Martins et al. 2013
	Scincomorpha	Cordylidae	*Cordylus* sp.†	1 adult		1							unknown	Seba 1734
		Gymnophthalmidae	*Vanzosaura rubricauda*	2 adults			1	1					Paraguay	Pheasey et al. 2014

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Squamata	Scincomorpha	Lacertidae	*Acanthodactylus aegyptius*	1 adult	76	1							Israel	Stark et al. 2018
			Algyroides nigropunctatus	1 adult male				1					Kosovo	Koleska & Jablonski 2015
			Eremias arguta	1 adult		1							unknown	Wiese 1812, Geoffroy Saint-Hilaire 1832
			Eremias arguta	1 adult male	12	1							Russia	Gordeev 2017
			Lacerta agilis	1			1						unknown	Otto 1816
			Lacerta agilis	1			1						unknown	Otto 1816, 1841
			Lacerta agilis	1			1						Switzerland	Tiedemann 1831, Geoffroy St-Hilaire 1836
			Lacerta agilis	1								1	Italy	Alessandrini 1854
			Lacerta agilis	1		1							Germany	Giebel 1864
			Lacerta agilis	1 adult male			1						Germany	Simroth 1879
			Lacerta agilis	1 adult			1						Germany	Bartels 1888
			Lacerta agilis	1		1							UK	Brindley 1898
			Lacerta agilis	2 adults			2						unknown	Schwalbe 1906
			Lacerta agilis	1 (adult?)				1					unknown	Gräper 1909
			Lacerta agilis	1		1							Germany	Lampe 1915
			Lacerta agilis	3 (adults?)		2		1					Romania	Müller 1926-1927
			Lacerta agilis	1			1						unknown	Ahl 1927
			Lacerta agilis	1 adult			1						unknown	Frommhold 1952
			Lacerta agilis	1 adult male		1							unknown	Geus 1966
			Lacerta agilis	1 adult female			1						Germany	Malkmus 1987
			Lacerta agilis	1 adult female		1							Czech Republic	Fojtl 1994
			Lacerta agilis	1 adult male; 2 unknown	3539	1						2	Netherlands	Strijbosch 1999
			Lacerta agilis	1 adult female			1						Austria	Moser 2000
			Lacerta agilis	1		1							Germany	Schädler 2004
			Lacerta agilis	several								2	Germany	Hafner & Zimmermann 2007
			Lacerta agilis	1 male	168		1						Germany	You 2010, Willigalla et al. 2011
			Lacerta agilis	1 male				1					Austria	Wöss 2010, Blanke 2010
			Lacerta agilis	1 juvenile			1						Germany	Thiesmeier 2010
			Lacerta agilis	1 adult female			1						Hungary	Lantermann & Lantermann 2010
			Lacerta agilis	1			1						Germany	Willigalla et al. 2011
			Lacerta agilis	1 adult male			1						Germany	Gramentz 2013
			Lacerta agilis	1 adult female	>500	1							Poland	Dudek & Ekner-Grzyb 2014
			Lacerta agilis	1 adult		1							Germany	Hennig 2014
			Lacerta agilis	1 adult female		1							Hungary	Puky et al. 2014
			Lacerta agilis	1 adult male	10	1							Poland	Kolenda et al. 2017
			Lacerta agilis	1 juvenile	12	1							Poland	Kolenda et al. 2017
			Lacerta agilis	1 adult male, 1 adult female	43	2							Russia	Gordeev 2017
			Lacerta agilis	1 adult			1						Germany	Berger & Otte 2020
			Lacerta agilis bosnica	1 adult female			1						Bosnia and Herzegovina	Ramadanovic & Zimic 2019
			Lacerta bilineata	2 adults		1	1						Italy	Aldrovandi 1642, 1645, Jonston 1657
			Lacerta bilineata	1					1				France	Müller 1852; Müller 1864-1865

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Squamata	Scincomorpha	Lacertidae	*Lacerta bilineata*	1 adult			1						Italy	Alessandrini 1854
			Lacerta bilineata	1			1						France	Guitard 1867
			Lacerta bilineata	1			1						unknown	Durand 1897, Buguet 1898
			Lacerta bilineata	1				1					France	Rollinat 1934
			Lacerta bilineata	1 adult male		1							Italy	Strijbosch 1999
			Lacerta bilineata	unknown								1	unknown	Funke 2001
			Lacerta cf. *bilineata*	1				1					unknown	Volante 1923
			Lacerta lepida	1 adult			1						Portugal	Themido 1944
			Lacerta sp. (*bilineata* or *viridis*)	1		1							unknown	Heusner 1824
			Lacerta trilineata	1 adult					1				Dalmatia	Payen 1991
			Lacerta viridis	1 adult			1						unknown	Bland-Sutton 1890
			Lacerta viridis	several								2	unknown	Tofohr 1903
			Lacerta viridis	1								1	unknown	Strijbosch 1999
			Lacerta viridis viridis	1 subadult		1							Bulgaria	Stojanov et al. 2011, Kornilev et al. 2018
			Lacerta viridis viridis	2 adults			1	1					Germany	Schneeweiss & Franke 2017
			Mesalina rubropunctata	1 adult male		1							Algeria	Bischoff 2004
			Ophisops elegans	1 male	>360	1							Israel	Tamar et al. 2013
			Podarcis bocagei bocagei	2 adults			2						Portugal	Themido 1944
			Podarcis erhardii	1 male(?)			1						Greece	Brock et al. 2014
			Podarcis ionicus[++]	1 adult male		1							Greece	Strijbosch 1999
			Podarcis melisellensis	1 adult male	72	1							Croatia	Baeckens et al. 2018
			Podarcis muralis	1					1				unknown	Aldrovandi 1642, 1645, Jonston 1657
			Podarcis muralis	1				1					France	Marchant 1741
			Podarcis muralis	1			1						France	Arnault de Nobleville & Salerne 1756
			Podarcis muralis	5 (3 or 4 adults, 1 male, 1 juvenile)		5							France (1 ad. + 1 juv., but presumably all)	Gachet 1834
			Podarcis muralis	1		1							Italy	Calori 1858
			Podarcis muralis	1			1						France	Gadeau de Kerville 1894, 1908, Buguet 1898
			Podarcis muralis	1			1						France	Martins & Rollinat 1894
			Podarcis muralis	several								2	unknown	Tofohr 1903
			Podarcis muralis	1 adult			1						unknown	Schwalbe 1906
			Podarcis muralis	1		1							Italy	Gay 1909
			Podarcis muralis	5		2	2	1					unknown	Volante 1923
			Podarcis muralis	1 adult male			1						unknown	Pires de Lima 1929
			Podarcis muralis	2 individuals								2	France	Fretey 1987
			Podarcis muralis	1 adult female		1							Greece	Strijbosch 1999
			Podarcis muralis	unknown								1	unknown	Funke 2001
			Podarcis muralis	1		1							Germany	Laufer et al. 2007
			Podarcis muralis	1 adult female, 1 adult male		1	1						Germany	Dalbeck & Haese 2011
			Podarcis muralis	1 adult male				1					Croatia	Badiane 2017
			Podarcis muralis	1 adult male		1							Italy	Pola & Koleska 2017
			Podarcis muralis	1 adult	11		1						Germany	Dürst 2019

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Squamata	Scincomorpha	Lacertidae	*Podarcis muralis*	2 adults		2							France	Sorlin et al. 2019
			Podarcis muralis merremia	11 males		11							France	Funke 2001
			Podarcis muralis nigriventris	1 adult(?)		1							unknown	Tofohr 1905
			Podarcis pityusensis pityusensis	1 adult female				1					Ibiza, Spain	Heklau 2010
			Podarcis siculus	1 adult male, 1 adult female, and 1 adult		2	1						unknown	Tofohr 1905
			Podarcis sp.	1				1					unknown (Italy?)	Redi 1684, 1708
			Podarcis tiliguerta	1								1	unknown	Strijbosch 1999
			Psammodromus algirus	1								1	unknown	Strijbosch 1999
			Psammodromus hispanicus hispanicus	1 adult		1							Portugal	Themido 1944
			Takydromus tachydromoides	1			1						Japan	Niimi 1965
			Takydromus tachydromoides	1				1					Japan	Niimi 1969
			Takydromus tachydromoides	1 adult	1275	1							Japan	Telford 1997
			Teira dugesii	1 adult male	>20	1							Portugal	Koleska et al. 2017a
			Teira dugesii selvagensis	1 adult male			1						Selvagens Islands, Portugal	Wagner 2004
			Timon lepidus	2 adults		2							France	Vincent 1877
			Timon lepidus	1 subadult female			1						unknown	Pires de Lima 1929
			Timon lepidus	1 juvenile			1						unknown (presumably Spain)	Cabanás 1945
			Timon lepidus	unknown								1	unknown	Funke 2001
			Timon lepidus	2 adult females	approx. 630	1	1						France	Renet 2013
			undetermined	1								1	unknown	Gesner 1554
			undetermined	2		1		1					unknown	Aldrovandi 1642
			undetermined	several			1	1					unknown	Porta 1644
			undetermined	unknown, at least two			1	1					unknown	Redi 1684
			undetermined	several								2	Portugal	Needham 1750
			undetermined	1				1					unknown	Beltrami 1831
			undetermined	several			1	1					unknown	Eversmann 1858
			Zootoca vivipara	1		1							UK	Laver 1879
			Zootoca vivipara	at least 3			2	1					UK	Knight 1965
			Zootoca vivipara	1 embryo			1						Russia	Semenov & Ivanova 1995
			Zootoca vivipara	1 adult male; 2 unknown	7580	1						2	Netherlands	Strijbosch 1999
			Zootoca vivipara	unknown								1	unknown	Funke 2001
			Zootoca vivipara	1 subadult	>500		1						Poland	Dudek & Ekner-Grzyb 2014
			Zootoca vivipara	1		1							Germany	Grosse 2015
			Zootoca vivipara	1		1							Poland	Kolenda et al. 2017

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Squamata	Scincomorpha	Scincidae	*Ablepharus deserti*	1 adult female	31	1							Kyrgyzstan	Jablonski 2016
			Ablepharus kitaibelii	4	415	4							Bulgaria	Vergilov & Natchev 2017
			Brasiliscincus heathi	1 adult male, 1 adult pregnant female	14	2							Brazil	Magalhães et al. 2015
			Chalcides ocellatus	1		1							unknown	Tofohr 1903
			Chalcides ocellatus	1 adult	1000	1							unknown	Terni 1915
			Chalcides sepsoides	1 adult		1							unknown	Tofohr 1905
			Cryptoblepharus nigropunctatus+++	1 subadult			1						Bonin Island, Japan	Hirota 1896
			Cryptoblepharus pannosus	1 adult				1					Australia	Jablonski & Reichstein 2019
			Ctenotus grandis grandis	1 adult		1							Australia	Ellis 2015
			Eremiascincus richardsonii	1 adult	92	1							Australia	this study
			Eumeces chinensis	1 adult		1							China	Payen 1991
			Eutropis allapallensis	1			1						India	Vyas 2016
			Eutropis bibronii	1 adult female		1							India	Ghosh & Banerjee 2019
			Eutropis carinata	2		2							unknown	Brindley 1898
			Eutropis carinata	1 adult male			1						India	Srinivasachar 1956
			Leiolopisma telfairii	1		1							unknown	Brindley 1894
			Lerista punctatovittata	2 adults	198	2							Australia	this study
			Liopholis whitii	1 adult	350	1							Australia	Hickman 1960
			Morethia boulengeri	1 adult female	245	1							Australia	this study
			Morethia boulengeri	2 adults	891	2							Australia	this study
			Notomabuya frenata	3 adults	216	2		1					Brazil	Vrcibradic & Niemeyer 2013
			Panaspis wahlbergi	1 subadult		1							Kenya	Peirce 1972
			Plestiodon anthracinus	1 male	350		1						USA	Walley 1997
			Plestiodon barbouri	1 adult	2	1							Ryu Kyu Islands, Japan	Van Denburgh 1912, Taylor 1935
			Plestiodon egregius	1 adult	9	1							USA	Taylor 1935, Smith 1946
			Plestiodon fasciatus	1 adult male		1							USA	Scott 1982
			Plestiodon fasciatus	1 adult		1							USA	McKelvy & Stark 2012
			Plestiodon inexpectatus	1 adult female			1						USA	Mitchell et al. 2012
			Plestiodon longirostris	2 adults	238	2							Castle Island, Bermuda	Turner et al. 2017
			Plestiodon longirostris	5 adults	268	5							Southampton Island, Bermuda	Turner et al. 2017
			Psychosaura macrorhyncha	1 adult male	106	1							Brazil	Vrcibradic & Niemeyer 2013
			Tiliqua scincoides	1 embryo	8		1						Australia	Willis 1932
			Trachylepis atlantica	1		1							Brazil	De Mello Mendes et al. 2019
			Trachylepis punctatissima	1 adult			1						South Africa	Broadley 1977
			Tropidophorus grayi	1 adult	11	1							Philippines	Gaulke 2012
		Teiidae	*Ameiva ameiva*	5 (adults?)		4		1					British Guiana or Venezuela	Beebe 1945
			Ameiva ameiva	1 adult		1							Brazil	Gogliath et al. 2012
			Ameiva ameiva+	1 adult male				1					unknown (Chile in error)	Seba 1735
			Ameiva ameiva††	1		1							unknown	Seba 1734

Order	Sub-Order	Family	Species	Number of individuals with multiplication	Sample size	Bifurcation	Duplication	Trifurcation & Triplication	Quadruplication	Quintoplication	Hexaplication	No details	Geographic origin	Reference
Squamata	Scincomorpha	Teiidae	*Ameiva exsul*	1 adult(?)		1							Puerto Rico	Heatwole & Suarez-Lazu 1965
			Ameiva sp.	1		1							unknown	Ryder 1893
			Ameiva sp.	1				1					Dominican Republic	Gachet 1834
			Ameivula ocellifera	1 adult female	127		1						Brazil	Dantas Sales & Xavier Freire 2019
			Aspidoscelis exsanguis	4 adult females		4							USA	Bateman & Chung-MacCoubrey 2013
			Aspidoscelis neomexicana	4 adult females		4							USA	Bateman & Chung-MacCoubrey 2013
			Aspidoscelis sexlineata	1 adult		1							USA	Anonymous 1915
			Aspidoscelis sexlineata sexlineata	2 adult males, 1 female	2001	1		1	1				USA	Trauth et al. 2014
			Aspidoscelis tigris septentrionalis	1				1					USA	Heyborne et al. 2019
			Aspidoscelis uniparens	3 adult females		3							USA	Bateman & Chung-MacCoubrey 2013
			Aspidoscelis velox	1 adult, 1 subadult	> 200	1	1						USA	Cordes & Walker 2013
			Cnemidophorus lemniscatus	1 adult female		1							British Guiana or Venezuela	Beebe 1945
			Cnemidophorus lemniscatus	1 adult		1							USA	Walker & Flanagan 2019
			Cnemidophorus lemniscatus[#]	1				1					unknown	Otto 1816, 1841
			Glaucomastix itabaianensis	1 adult male		1							Brazil	Lima da Silva et al. 2019
			Pholidoscelis dorsalis[†††]	2			2						Jamaica	Edwards 1751
			Salvator merianae	1 young individual							1		Argentina	Pelegrin & Leão 2016
			Salvator merianae	1 adult female				1					Brazil	Passos et al. 2016
			Teius teyou	1			1						unknown	Tornier 1897
			Teius teyou	1	640	1							Bolivia	Casas et al. 2016
			Tupinambis teguixin	1 adult female		1							Brazil	Lema 1962
		undetermined	as *Lacerta peregrina*	1		1							unknown (Brazil in error)	Seba 1734
	Serpentes	Colubridae	*Coluber constrictor*	1 newborn of a female killed in nature	120		1						USA	Mitchill 1826
			Coluber constrictor constrictor	1 newborn from a recently coll. clutch			1						USA	Tuck & Hardy 1970, Payen 1991
			Masticophis flagellum	1			1						unknown (North America)	Matz 1989
			Nerodia sipedon	1			1						USA	Wyman 1865, Wallach & Salmon 2013
			Thamnophis sirtalis sirtalis	1 neonate			1						USA	Wallach 1995
			undetermined	1 juvenile			1						unknown (presumably France)	Lasserre 1880
			Xenodon severus	1 adult male			1						Bolivia	Payen 1991
		Elapidae	*Hemachatus haemachatus*	1 embryo			1						South Africa	Haagner 1994
			Sinomicrurus japonicus	1 embryo			1						Japan	Nakamura 1938
		undetermined	undetermined	2			2						unknown	Redi 1684
		Viperidae	*Vipera berus*	1			1						Germany	Strohl 1925

Order	Sub-Order	Family	Species	Number of individuals with multiplication	Sample size	Bifurcation	Duplication	Trifurcation & Triplication	Quadruplication	Quintoplication	Hexaplication	No details	Geographic origin	Reference
Squamata	undetermined	undetermined	undetermined	unknown		1							unknown (Atlantic Oceanic Islands or islands off the Brazilian coast)	Vespucci 1507
			undetermined	1				1					unknown	Geoffroy Saint-Hilaire 1832
			undetermined	1		1							unknown (presumably France)	Monteil 1881
Testudinata	Cryptodira	Chelydridae	*Chelydra serpentina*	1 adult male		1							USA	Rahman 2011
		Emydidae	*Pseudemys peninsularis*---	1 hatchling			1						USA	Hildebrand 1938
	Pleurodira	Chelidae	*Emydura australis*--	1 adult male		1							Australia	Kuchling 2005
			Phrynops tuberosus	3 adult males, 1 adult female		4							Brazil	Mota Rodrigues & Feitosa Silva 2013

* As Ameiva brasiliensibus et tupinambis; Seba (1734) presents the specimen on Plate 98, Fig. 2 and called it *Lacerta ameira*; according to Cuvier et al. (1831) and Duméril & Bibron (1839) it is a *Polychrus* species; given the head shape and distribution of *Polychrus* species (Avila-Pires 1995), it is most likely *P. marmoratus*

** The English translation is misleading and implies a different species

*** As *Lacerta eximia* on Plate 87; a synonym of *Anolis alligator* according to Duméril & Bibron (1836), which is a synonym of *Anolis roquet* according to the EMBL database (Uetz et al. 2019). However, only two species of *Anolis* occur on Sint Eustatius: *A. bimaculatus* and *A. schwartzi* (Schwartz & Henderson 1985). According to the colour description, the species must be *A. bimaculatus*

† Plate 109, Fig. 5; as *Salamandra americana*; a *Cordylus* species fide Merrem (1821)

†† Plate 90, Fig. 7; as *Lacerta tigrina ceilonica*; a male *Ameiva ameiva* according to Duméril & Bibron (1839)

††† According to Duméril & Bibron (1839), it belongs to the species described by him as *Ameiva sloanei*. *Ameiva sloanei* is a synonym of *Ameiva dorsalis* (Crother 1999); now in the genus *Pholidoscelis*

\+ Plate 103, Fig. 3; as *Lacerta strumosa americana*

\++ As *Podarcis taurica*

\+++ As *Ablepharus boutonii* var. *metallica*; *C. nigropunctatus* is the only skink species known from Bonin Island (Zug 2013)

– The figure applies to all individuals sampled by Telford (1997); he only shows a photo that states that bifurcation is rarely seen

-- Here we deviate both from the EMBL database (Uetz et al. 2019) and Cogger (2014) as the individual was found in NW Australia. For this region, both references use the name *E. victoriae* but the name *australis* is older and thus should have priority. If two species are recognized (e.g. Cann & Sadlier 2017), then the individual would also belong to *E. australis* (Kuchling, in litt.)

--- As *Pseudemys floridana*, which currently is no longer recognized as a species. The hatchlings have a pattern-less plastron; therefore, according to Ernst & Lovich (2009), they should belong to the species *Pseudemys peninsularis*, rather than to *P. concinna floridana*

\# As *Lacerta lemniscata*

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Supplementary document S2. Microhabitat data and references for the species covered.

Supplementary Table S2. Allocation of species, for which supernumerary tails have been reported from natural populations, to microhabitat categories (aquatic, arboreal, saxicolous, semi-aquatic, subterranean, terrestrial). Species that use different microhabitat categories were allocated to the main microhabitat used.

Species	Microhabitat	Autor
Ablepharus deserti	terrestrial	Jablonski 2016
Ablepharus kitaibelii	terrestrial	Vergilov & Natchev 2017
Acanthodactyls aegyptius	terrestrial	Meiri 2016
Agama agama	arboreal	Gramentz 1999
Agama lionotus	saxicolous	Kowalski & Barts 2007
Agama picturata	terrestrial	Ofori et al. 2018
Algyroides nigropunctatus	saxicolous	Bressi 2004
Amblyrhynchus cristatus	aquatic	Dawson et al. 1977
Ameiva ameiva	terrestrial	Avila-Pires 1995
Ameiva exsul	terrestrial	Schwartz & Henderson 1991
Ameivula ocellifera	terrestrial	Dantas Sales & Xavier Freire 2019
Anolis bimaculatus	arboreal	Schwartz & Henderson 1991
Anolis carolinensis	arboreal	Williams 1983
Anolis equestris	arboreal	Camper & Camper 2017
Anolis fitchi	arboreal	Valencia & Garcón 2011
Anolis grahami	arboreal	Schwartz & Henderson 1991
Anolis porcatus	arboreal	Iturriaga & Olcha 2016
Anolis sagrei	terrestrial	Schwartz & Henderson 1991
Asaccus gallagheri	saxicolous	Koleska 2018
Aspidoscelis exsanguis	terrestrial	Bowker 1993
Aspidoscelis neomexicana	terrestrial	Walker et al. 2013
Aspidoscelis sexlineata	terrestrial	Anonymous 1915
Aspidoscelis tigris	terrestrial	Walker et al. 2015
Aspidoscelis uniparens	terrestrial	Cuellar 1993
Aspidoscelis velox	terrestrial	Bowker 1993
Brasiliscincus heathi	terrestrial	Vitt 1995
Bronchocela cristatella	arboreal	Alcala 1986
Caiman crocodilus	aquatic	Magnusson et al. 1987
Chalcides ocellatus	terrestrial	Schneider 1981
Chalcides sepsoides	subterranean	Schleich et al. 1996
Chelydra serpentina	aquatic	Rahmann 2011
Christinus marmoratus	arboreal	Cogger 2014
Cnemidophorus lemniscatus	terrestrial	Beebe 1945
Coluber constrictor	terrestrial	Klug et al. 2010
Cophosaurus texanus	terrestrial	Mata-Silva et al. 2010
Cryptoblepharus nigropunctatus	terrestrial	Suzuki & Nagoshi 1999
Cryptoblepharus pannosus	arboreal	Cogger 2014
Ctenosaura palearis	terrestrial	Ariano-Sánchez & Gil-Escobedo 2016
Ctenotus grandis	terrestrial	Ellis 2015
Cyclura carinata	terrestrial	Iverson 1979
Cyclura cychlura	terrestrial	Schwartz & Henderson 1991
Cyclura rileyi	terrestrial	Schwartz & Henderson 1991
Elgaria multicarinata	terrestrial	Grismer 2007
Emydura aff. australis	aquatic	Legler & Georges 1993
Eremias arguta	terrestrial	Ščerbak 1981
Eremiascincus richardsonii	subterranean	Henle 1989a
Eumeces chinensis	terrestrial	Hauschild & Gassner 1995
Eutropis allapallensis	terrestrial	Vyas 2016
Eutropis bibronii	subterranean	Subramanean & Vikram Reddy 2012
Eutropis carinata	terrestrial	Upadhye et al. 2012
Gambelia wislizenii	terrestrial	Schorr et al. 2011
Gehyra variegata	arboreal	Henle 1990
Gekko japonicus	arboreal	Murai et al. 2013
Gekko monarchus	arboreal	Lim & Lim 1992
Glaucomastix itabaianensis	terrestrial	Lima da Silva et al. 2019
Gonatodes albogularis	arboreal	Köhler 2000
Hemachatus haemachatus	terrestrial	Branch 1988
Hemidactylus agrius	saxicolous	Monte de Andrade et al. 2015
Hemidactylus brookii	arboreal	Mitchell & Zug 1988
Hemidactylus flaviviridis	arboreal	Kumbar et al. 2011
Hemidactylus frenatus	arboreal	Cogger 2014
Hemidactylus giganteus	arboreal	Giri et al. 2003
Hemidactylus gleadowi	arboreal	Stuart 1908
Hemidactylus leschenaultii	arboreal	Taylor 1953
Hemidactylus mabouia	arboreal	Loveridge 1920
Hemidactylus persicus	saxicolous	Gardner 2009
Hemidactylus prashadi	arboreal	Yankanchi & Kumbar 2016
Hemitheconyx caudicinctus	saxicolous	Loveridge 1947
Homonota uruguayensis	saxicolous	Abegg et al. 2014
Hydrosaurus pustulosus	semi-aquatic	Alcala 1986
Hydrosaurus weberi	semi-aquatic	Werning 2004
Intellagama lesueurii	semi-aquatic	Cogger 2014
Lacerta agilis	terrestrial	Märtens et al. 1997
Lacerta bilineata	terrestrial	Elbing 2016
Lacerta lepida	terrestrial	Bischoff et al. 1984
Lacerta trilineata	terrestrial	Elbing 2016
Lacerta viridis	terrestrial	Henle 1985
Laudakia tuberculata	saxicolous	Chandra & Mukherjee 1979
Leiolopisma telfairii	terrestrial	North et al. 1994
Lepidodactylus lugubris	arboreal	Bauer & Sadlier 2000,
Lerista punctatovittata	subterranean	Henle 1989a
Liopholis whitii	terrestrial	Greer 1989
Masticophis flagellum	terrestrial	Halstead et al. 2009
Mesalina rubropunctata	terrestrial	Bischof 2004
Microlophus albemarlensis	terrestrial	Schluter 1984

Species	Microhabitat	Autor
Morethia boulengeri	terrestrial	Henle 1989b
Nerodia sipedon	semi-aquatic	Roe et al. 2003
Notomabuya frenata	terrestrial	Vitt 1991
Ophiodes striatus	terrestrial	Barros & Teixeira 2007
Ophisops elegans	terrestrial	Darewskij & Beutler 1981
Oplurus cuvieri	arboreal	Mori & Randriamahazo 2002
Panaspis wahlbergi	terrestrial	Jacobsen et al. 2010
Paralaudakia caucasica	terrestrial	Orlowa 1981
Pholidoscelis dorsalis	terrestrial	Schwartz & Henderson 1991
Phrynops tuberosus	aquatic	Mota Rodrigues & Feitosa Silva 2013
Phyllopezus pollicaris	saxicolous	Recoder et al. 2012
Plestiodon anthracinus	terrestrial	Taylor 1935
Plestiodon barbouri	terrestrial	Goris & Maeda 2004
Plestiodon egregius	subterranean	Smith 1946
Plestiodon fasciatus	subterranean	Hecnar & Hecnar 2019
Plestiodon inexpectatus	terrestrial	Mushinsky 1992
Plestiodon longirostris	terrestrial	Bacon et al. 2006
Podarcis bocagei	terrestrial	Dominguez & Salvador 1989
Podarcis erhardii	terrestrial	Gruber 1986
Podarcis ionicus	terrestrial	Kabisch 1986
Podarcis melisellensis	terrestrial	Henle 1985
Podarcis muralis	terrestrial	Gruschwitz & Böhme 1986
Podarcis pityusensis	terrestrial	Heklau 2010
Podarcis siculus	terrestrial	Henle 1988
Podarcis tiliguerta	terrestrial	Schneider 1986
Polychrus c.f. marmoratus	arboreal	Avila-Pires 1995
Psammodromus algirus	terrestrial	Pérez-Quintero 1995
Psammodromus hispanicus	terrestrial	Pérez-Quintero 1995
Pseudemys peninsularis	aquatic	Ernst & Lovich 2009
Psychosaura macrorhyncha	terrestrial	Vrcibradic & Rocha 2005
Rhacodactylus trachyrhynchus	arboreal	Bauer & Sadlier 2000
Salvator merianae	terrestrial	Vitt 1995
Sauromalus ater	saxicolous	Koleska et al. 2017
Sceloporus occidentalis	terrestrial	Clark 1973
Sceloporus uniformis	terrestrial	Mosher & Bateman 2016
Sinomicrurus japonicus	terrestrial	Mochida et al. 2015
Sphenodon punctatus	terrestrial	Cree 2014
Stenocercus ornatissimus	terrestrial	Lehr 2002
Stenodactylus sthenodactylus	terrestrial	Ofer et al. 2020
Takydromus tachydromoides	terrestrial	Telford 1997
Tarentola mauritanica	saxicolous	Rieppel 1981
Teira dugesii	terrestrial	Wagner 2004
Teius teyou	terrestrial	Cacciali et al. 2016
Thamnophis sirtalis	terrestrial	Shine et al. 2001
Tiliqua scincoides	terrestrial	Cogger 2014
Timon lepidus	terrestrial	Renet 2013
Trachylepis atlantica	saxicolous	Rocha et al. 2009
Trachylepis punctatissima	arboreal	Broadley 1977
Trogonophis wiegmanni	subterranean	Bons & Geniez 1996
Tropidophorus grayi	semi-aquatic	Gaulke 2012
Tropidurus catalanensis	saxicolous	Cei 1993
Tropidurus semitaeniatus	terrestrial	Pelegrin et al. 2017
Tropidurus torquatus	terrestrial	Arruda et al. 2008
Tubinambis teguixin	terrestrial	Avila-Pires 1995
Urosaurus bicarinatus	arboreal	Dunham 1982
Uta stansburiana	terrestrial	Tinkle 1967
Vanzosaura rubricauda	terrestrial	Cei 1993
Varanus varius	arboreal	Cogger 2014
Vipera berus	terrestrial	Völkl & Thiesmeier 2002
Xenodon severus	terrestrial	Lancini & Kornacker 1989
Zootoca vivipara	terrestrial	Thiesmeier 2013

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