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**TAXONOMY OF THE LIOLAEMINAE  
(SQUAMATA: IGUANIA: TROPIDURIDAE)  
AND A  
SEMI-ANNOTATED BIBLIOGRAPY**



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**Richard Etheridge  
Department of Biology  
San Diego State University  
&  
Robert E. Espinoza  
Ecology, Evolution, and Conservation Biology  
University of Nevada, Reno**

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Editor's Note:  
The forward begins on page two.  
There is no page one.



**A TAXONOMY AND SEMI-ANNOTATED BIBLIOGRAPHY OF THE  
LIOLAEMINAE (SQUAMATA: IGUANIA: TROPIDURIDAE)**

**Richard Etheridge<sup>1</sup> and Robert E. Espinoza<sup>2</sup>**

<sup>1</sup> Department of Biology  
San Diego State University  
San Diego, CA 92182-4616 USA  
Voice: (619) 594-5394  
FAX: (619) 594-5676  
Email: rether@sunstroke.sdsu.edu  
*(author for correspondence)*

<sup>2</sup> Ecology, Evolution, and Conservation Biology  
MS 314  
University of Nevada, Reno  
Reno, NV 89557 USA  
Voice: (775) 784-1703  
FAX: (775) 784-1369  
Email: espin\_r@unr.edu

## FOREWORD

The Liolaeminae (Iguania: Tropiduridae) is a large clade of small to moderate-sized lizards that live in primarily arid and semiarid habitats throughout most of austral South America. They are a conspicuous component of the terrestrial vertebrate fauna wherever they occur, and many localities are occupied by several species. As this bibliography clearly indicates, lizards of the Liolaeminae have been the focus of intense interest by biologists for more than a century.

In 1989, Frost and Etheridge proposed formal recognition of Liolaeminae as a subfamily of the iguanian family Tropiduridae. Although species of Liolaeminae have been coupled with a large number of generic names (see Taxonomy), Etheridge (1995) recognized only three as valid:

*Ctenoblepharys* (1 species), *Phymaturus* (10 species) and *Liolaemus* (~ 150 species).

*Ctenoblepharys adspersa* is an arenicolous insectivore confined to the Pacific beaches of central Perú, where it occurs in isolation from other Liolaeminae. *Phymaturus* are saxicolous, herbivorous lizards that live at high elevations in the Andes of central Chile and Argentina, and along the volcanic mesetas in central and southern Argentina. Throughout its range *Phymaturus* occurs sympatrically with one or more species of *Liolaemus*. The number of valid species of *Liolaemus* as of this writing stands at approximately 150—the uncertainty resulting from differing opinions on the validity of some forms. Eleven species have from two to five subspecies. Incredibly, the number of *Liolaemus* has been growing at a rate of about four new species each year for the past decade (Fig. 1), and at least 20 manuscript names known to us are now in preparation.

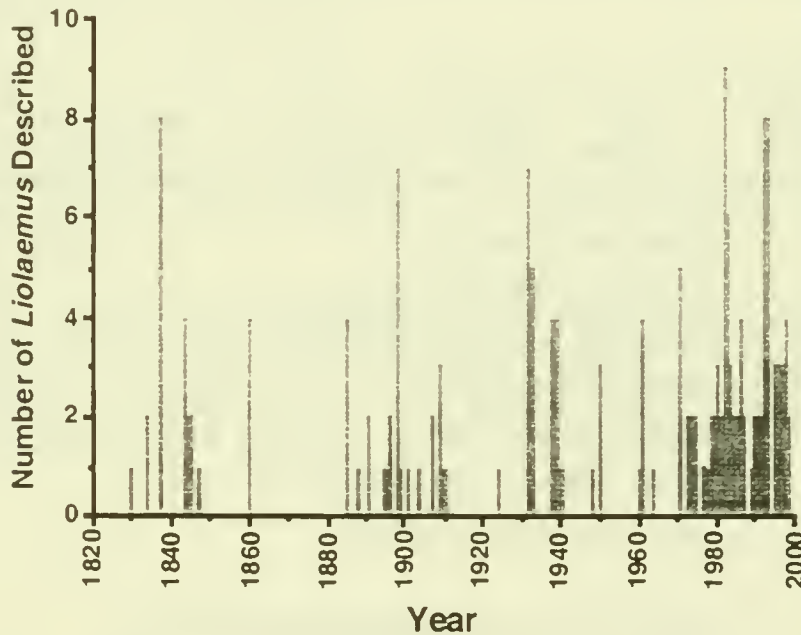


Fig. 1. Number of *Liolaemus* taxa described over time. Only taxa that are currently considered valid are. Incredibly, the rate of new-species descriptions has averaged 2.7 per year since 1970 and has risen to 3.5 per year within the last decade.

*Liolaemus* ranges from northern central Perú southward through Bolivia, Chile, and Argentina to

northern Tierra del Fuego, and up the Atlantic coast of Uruguay and southeastern Brazil. Members of this genus occur at elevations from sea level to over 5000 m. In body size they range from 45 to just over 100 mm snout-vent length, with body masses from three to nearly 40 g. *Liolaemus* may be insectivorous or herbivorous, but the majority of species appear to be omnivores. The reproductive mode of *Ctenoblepharys* is unknown, but it is probably oviparous. *Phymaturus* are viviparous, as are about half the species of *Liolaemus*, whereas the remaining species deposit eggs in varying stages of embryonic development. The majority of liolaemine lizards live in arid or semiarid habitats, but the distributions of some *Liolaemus* extend into the humid forest of southern Chile, and along the Atlantic coast including several Brazilian islands. Liolaeminae are almost entirely terrestrial, with most being microhabitat generalists, but some are highly specialized morphologically:

*Ctenoblepharys adspersa* and some *Liolaemus* for life on aeolian sand, and *Phymaturus* and some

*Liolaemus* for life among the crevices in outcrops of boulders. Only one species of *Liolaemus* is commonly found on trees.

Clearly the large number of species, the great range in latitude and elevation, the occurrence of multiple syntopic species in many regions, and the great diversity in characteristics such as body size, morphology, diet, reproductive mode, and microhabitat selection insures that these lizards will be the subjects of biological investigations for many years to come. Our purpose in preparing this list of valid names and synonymies, and bibliography is to help facilitate those studies.

## CONTENT & HOW TO USE THIS BIBLIOGRAPHY

The bibliography contains references written in English, French, German, Italian, Latin, Portuguese, and Spanish, and spans about three centuries of research. We made every effort to locate the original work for each citation in an attempt to avoid the errors associated with copying bibliographies from secondary sources. We also attempted to include the full citations for the references rather than to use abbreviations; however, in a few cases we were unable to locate the primary reference and thus had to rely on citations from other resources. Originally, this bibliography included 43 secondary references in which only earlier works were cited, and 114 citations of published abstracts of papers given at meetings. Because of page limitations, these citations have been removed. Despite our attempts to make this bibliography as error-free and comprehensive as possible, undoubtedly we have made mistakes and missed some citations. With the help of our colleagues we hope that we can remedy this shortfall and keep the list up to date by receiving notices or reprints of work relating to this fascinating group of lizards. This list, in an electronic format (contact first author for web address), will be updated as new references are received.

The references are ordered alphabetically, by the last name of the first author, and next by the year the paper was published. In cases of multiple authorship, the same principle above follows, with the citations listed by the second author's last name and so forth. Because publication dates are sometimes not the same as print dates, some citations are followed by a year in brackets (e.g., [1991]). In such instances, the year for the reference should be cited (or searched for) using the publication date not the bracketed print date.

A "t.d." before a species name in an annotation indicates that the reference is the source of the original type description for a given taxon. The spelling of taxa in annotations follows the orthography of the publications cited and no assumptions were made regarding the current identity of these taxa. Users should refer to the Taxonomy section for synonymys and current usage. Annotations are lacking for many shorter publications for which the contents are explicitly stated in the title.

We are aware that the utility of this bibliography would be greatly enhanced by the addition of one or more indexes. We hope that future editions may include indexes, and encourage those who are interested in particular aspects of liolaemine biology (e.g., behavior, life history, taxonomy, etc.) to prepare indexes for their topics of interest and share them with our fellow researchers.

## ACKNOWLEDGMENTS

Many of our colleagues and friends assisted by sending their references or reprints and, were it not for their efforts, assembling this bibliography would have been much more difficult. Among them, we would like to thank Luciano Avila, Dan Blackburn, Félix Cruz, Kevin de Queiroz, Lee Fitzgerald, Lígia Krause, Fernando Lobo, Ricardo Montero, Jimmy McGuire, Scott Moody, Herman Núñez, Martha Ramírez Pinilla, Fred Rocha, Miguel Rodriguez, Kurt Schwenk, Norm Scott, Laura Vega, Van Wallach, and Jorge Williams. We would like to extend a special thanks to Jorge Williams who allowed us to incorporate numerous citations from a similar bibliography that he was preparing. We thank Heather Powell and the librarians directing the interlibrary loan services at San Diego State University and at the University of Nevada, Reno for helping us to procure some of the more difficult-to-obtain references. Carrie Carreño, Fernando Lobo, and Heather Powell helped to check earlier versions of the bibliography for errors. During the preparation of this bibliography, the junior author was supported by a Porter Fellowship from the American Society of Physiologists and the Biological Resources Research Center at the University of Nevada, Reno.

## SPECIES AND SUBSPECIES OF LIOLAEMINAE: VALID AND INVALID NAMES

All published names for species and subspecies of Liolaeminae are listed here. Following the taxonomy of Etheridge (1995), the genera *Ctenoblepharys*, *Liolaemus*, and *Phymaturus* are recognized. Species and subspecies considered valid, or whose status is uncertain, are printed in **boldface**. Synonyms are followed by a reference to the first published proposal of the synonymy. Names subject to taxonomic changes since 1980, such as new combinations and revivals of taxa formerly in synonymy, are followed by an appropriate reference.

### *Ctenoblepharys* TSCHUDI, 1845

Subsequent to the description of *Ctenoblepharys adspersa*, 12 species, including 15 specific names, were described in or transferred to this genus, but all were referred to *Liolaemus* by Etheridge (1995). Thus, only one species is recognized.

*adspersa* TSCHUDI, 1845

### *Liolaemus* WIEGMANN, 1834

This list includes all of the species that are now, or have been, recognized under the following generic and subgeneric names: *Abas* NÚÑEZ and YÁÑEZ, 1984; *Austrolaemus* LAURENT, 1995; *Ceiolaemus* LAURENT, 1984; *Chrysosaurus* GAY 1848; *Ctenoblepharys* TSCHUDI, 1845 (except *C. adspersa*, the type species); *Eulaemus* GIRARD, 1857; *Liolaemus* WIEGMANN, 1834; *Liodeira* FITZINGER, 1843; *Ortholaemus* GIRARD, 1857; *Pelusaurus* DONOSO-BARROS, 1973; *Phrynosaura* WERNER, 1907; *Ptychodeira* FITZINGER, 1843; *Rhytidodeira* GIRARD, 1857; *Velosaura* NÚÑEZ and YÁÑEZ, 1984; and, *Vilcunia* DONOSO-BARROS and CEI, 1981. For the purpose of this list, all of these names except *Ctenoblepharys* are considered synonyms of *Liolaemus*. Species of *Liolaemus* have also been described in, or referred to the genera *Proctotretus* DUMÉRIL and BIBRON, 1837; *Leiosaurus* DUMÉRIL and BIBRON, 1837; *Stenocercus* DUMÉRIL and BIBRON, 1837; *Calotes* CUVIER, 1817; and, *Tropidurus* WIED-NEUWIED, 1825.

*abauca* ETHERIDGE, 1993

*affinis* GIRARD, 1858 (substitute name for *fitzingerii* BELL, 1843)

*albiceps* LOBO and LAURENT, 1995

*alticolor* BARBOUR, 1909

*alticolor walkeri* - see *walkeri*

*altissimus* MÜLLER and HELLMICH, 1932 (= *bellii* fide ORTIZ, 1981)

*andinus* (valid fide LAURENT, 1982)

*andinus andinus* KOSLOWSKY, 1895

*andinus poecilochromus* LAURENT, 1986 (new combination fide LAURENT, 1992)

*anomalus*

*anomalus anomalus* KOSLOWSKY, 1896

*anomalus ditadai* CEI, 1983

*annectens* - see *signifer annectens*

*araucaniensis* - see *bellii araucaniensis*

*archeforus* DONOSO-BARROS and CEI, 1971

*archeforus gallardoi* - see *gallardoi*

*archeforus sarmientoi* - see *sarmientoi*

*argentinus* - see *pictus argentinus*

*arenaria* WERNER, 1910 (= *magellanicus* fide DONOSO-BARROS, 1970)

*ater* - see *zapallarensis ater*

*atacamensis* MÜLLER and HELLMICH, 1933 (species status fide SIMONETTI and NÚÑEZ, 1986)

- auditovelatus* NÚÑEZ and YÁÑEZ, 1983  
*austromendocinus* CEI, 1974  
*aymararum* - see *jamesi aymararum*  
*baguali* CEI and SCOLARO, 1983 (species status fide SCOLARO and CEI, 1997)  
*beaglii* GIRARD, 1858 (substitute name for *multimaculatus* BELL, 1843)  
*bellii*  
     *belli bellii* GRAY, 1845  
     *bellii araucaniensis* MÜLLER and HELLMICH, 1932  
     *bellii moradoensis* HELLMICH, 1950  
*bellii neuquensis* - see *neuquensis*  
*bibronii* BELL, 1843  
*bisignatus* PHILIPPI, 1860  
*bitaeniatus* LAURENT, 1984  
*bolivianus* PELLEGRIN, 1909 (= *signifer* fide HELLMICH, 1962)  
*boulengeri* KOSLOWSKY, 1898  
*brattstroemi* - see *cyanogaster brattstroemi*  
*buengeri* WERNER, 1907  
*calchaqui* LOBO and KRETZSCHMAR, 1996  
*campanae* - see *nigroviridis campanae*  
*canqueli* CEI, 1975 (species status fide ETHERIDGE, 1993)  
*capillitas* HULSE, 1979  
*ceii* DONOSO-BARROS, 1971  
*chacoensis* SHREVE, 1948  
*chiliensis* LESSON, 1830  
*chillanensis* - see *monticola chillanensis*  
*chiloeensis* - see *pictus chiloeensis*  
*chlorostictus* - see *orientalis chlorostictus*  
*coeruleus* CEI and ORTIZ, 1983  
*conspersus* GRAVENHORST, 1838 (= *nigromaculatus* fide BOULENGER, 1885)  
*constanzae* DONOSO-BARROS, 1961  
*copiapensis* MÜLLER and HELLMICH, 1933  
*courtyi* [*variabilis courtyi*] PELLEGRIN, 1909 (= *multiformis* fide HELLMICH, 1962; = *signifer* fide LAURENT, 1992)  
*cranwelli* DONOSO-BARROS, 1973  
*crequii* [*variabilis crequii*] PELLEGRIN, 1909 (= *multiformis* fide HELLMICH, 1962; = *signifer* fide LAURENT, 1992)  
*cristiani* NÚÑEZ, NAVARRO, and LOYOLA, 1991  
*curicensis* MÜLLER and HELLMICH, 1938  
*curis* NÚÑEZ and LABRA, 1985  
*cuyanus* CEI and SCOLARO, 1980  
*cyanogaster*  
     *cyanogaster cyanogaster* DUMÉRIL and BIBRON, 1837  
     *cyanogaster brattstroemi* DONOSO-BARROS, 1961  
*darwinii* BELL, 1843  
*disjunctus* LAURENT, 1990  
*donosobarrosi* CEI, 1974  
*donosoi* ORTIZ, 1975 (= *constanzae* fide VELOSO, SALLABERRY, NAVARRO, ITURRA, VALENCIA, PENNA, and DIAZ, 1982)  
*dorbignyi* KOSLOWSKY, 1898  
*duellmani* CEI, 1978  
*elegans* TSCHUDI, 1845 (= *lemniscatus* fide ROUX, 1907)  
*eleodori* CEI, ETHERIDGE, and VIDELA, 1983  
*elongatus* KOSLOWSKY, 1896  
*elongatus petrophilus* - see *petrophilus*

- emmae* DONOSO-BARROS, 1970 (= *chacoensis* fide CEI, 1980)  
*erroneus* NÚÑEZ and YÁÑEZ 1983-84  
*erythrogaster* WERNER, 1898 (= *fuscus* fide MÜLLER and HELLMICH, 1933)  
*escarchadosi* SCOLARO and CEI, 1997  
*etheridgei* LAURENT, 1998  
*exploratorum* CEI and WILLIAMS, 1984  
*fabiani* YÁÑEZ and NÚÑEZ, 1983  
*famatinae* CEI, 1980  
*femoratus* GIRARD, 1854 (= *lemniscatus* fide BOULENGER, 1885)  
*fittkaui* LAURENT, 1986  
*fitzgeraldi* BOULENGER, 1899  
*fitzingerii* DUMÉRIL and BIBRON, 1837  
*fitzingerii canqueli* - see *canqueli*  
*fitzroii* GIRARD, 1858 (substitute name for *wiegmannii* BELL, 1843)  
*forsteri* LAURENT, 1982  
*fuscus* BOULENGER, 1885  
*gallardoi* CEI and SCOLARO, 1982 (species status fide SCOLARO and CEI, 1997)  
*gleischi* AHL, 1924 (= *occipitalis* fide MERTENS, 1938)  
*goetschi* MÜLLER and HELLMICH, 1938 (= *fitzingerii melanops* fide CEI and SCOLARO, 1977; = *melanops melanops* fide CEI and SCOLARO, 1983)  
*gracilis* BELL, 1843  
*gravenhorstii* GRAY, 1845  
*griseus* LAURENT, 1984  
*hatcheri* STEJNEGER, 1909 (= *magellanicus* fide DONOSO-BARROS, 1970; valid fide ETHERIDGE, 1998)  
*hieroglyphicus* GRAVENHORST, 1838 (= *lemniscatus* fide BOULENGER, 1885)  
*hellmichi* DONOSO-BARROS, 1975  
*helioderms* ESPINOZA, LOBO and CRUZ, 2000  
*hernani* SALLABERRY, NÚÑEZ and YÁÑEZ, 1982  
*huacahuasicus* LAURENT, 1985  
*inconspicuus* GRAY, 1845 (= *nigromaculatus* fide BOULENGER, 1885)  
*insolitus* CEI and PÉFAUR, 1982  
*intermedius* DUMÉRIL and BIBRON, 1837 (= *cyanogaster* fide BOULENGER, 1885)  
*irregularis* LAURENT, 1986  
*isabelae* NAVARRO and NÚÑEZ, 1993  
*islugensis*  
     *islugensis islugensis* ORTIZ and MARQUET, 1987  
     *islugensis erguetae* LAURENT, 1995  
*jamesi*  
     *jamesi jamesi* BOULENGER, 1891  
     *jamesi aymararum* VELOSO, SALLABERRY, NAVARRO, ITURRA, VALENCIA, PENNA, and DIAZ, 1982 (new combination fide LAURENT, 1995)  
     *jamesi pachecoi* LAURENT, 1995  
*juanortizi* YOUNG-DOWNEY and MORENO, 1992  
*kingii* BELL, 1843  
*koslowskyi* ETHERIDGE, 1993  
*kriegi* MÜLLER and HELLMICH, 1939  
*kuhlmanni* MÜLLER and HELLMICH, 1933  
*lativittatus* WERNER, 1904 (? = *alticolor* fide MÜLLER and HELLMICH, 1938)  
*laurenti* ETHERIDGE, 1992  
*lemniscatus* GRAVENHORST, 1837  
*lentus* GALLARDO, 1966 (= *anomalus* fide CEI, 1979)  
*lenzi* BOETTGER, 1891 (= *multiformis* fide BURT and BURT, 1931; = *signifer* fide LAURENT, 1992)



- leopardinus* MÜLLER and HELLMICH, 1932  
*lineatus* GRAVENHORST, 1837 (= *nitidus* fide BOULENGER, 1885)  
*lineatus* GRAY, 1845 (= *bibronii* fide BOULENGER, 1885)  
*lineomaculatus* BOULENGER, 1885  
*lorenzmuelleri* HELLMICH, 1950  
*lutzae* MERTENS, 1938  
*maculatus* GRAY, 1845 (= *tenuis* fide BOULENGER, 1885)  
*major* - see *pictus major*  
*magellanicus* HOMBON and JACQUINOT, 1847  
*maldonadae* NÚÑEZ, NAVARRO, and LOYOLA, 1991  
*marmoratus* GRAVENHORST, 1838 (= *nitidus* fide BOULENGER, 1885)  
*marmoratus* PHILIPPI, 1860 (= *nitidus* fide ORTIZ and NÚÑEZ, 1986)  
*marmoratus* BURMEISTER, 1861 (renamed *pseudoanomalus* CEI, 1981)  
*melanogaster* LAURENT, 1998  
*melanopleurus* PHILIPPI, 1860 (? = *darwinii* fide BOULENGER, 1885; status uncertain fide ORTIZ and NÚÑEZ, 1986)  
*melanops* BURMEISTER, 1888  
*melanops xanthoviridis* - see *xanthoviridis*  
*micropholis* WERNER, 1910 (? = *boulengeri* fide PETERS and DONOSO-BARROS, 1970)  
*micropunctatus* [*tenuis micropunctatus*] GOETSCH and HELLMICH, 1932 (nomen nudum for *tenuis punctatissimus*)  
*minor* - see *nigroviridis minor*  
*mocquardi* PELLEGRIN, 1909 (= *ornatus* fide LAURENT, 1992)  
*modestus* PHILIPPI, 1860 (= *chiliensis* fide BOULENGER, 1885; = *altissimus* fide MÜLLER and HELLMICH, 1933; status uncertain fide ORTIZ and NÚÑEZ 1986)  
*montanus* KOSLOWSKY, 1898  
*monticola*  
*monticola monticola* MÜLLER and HELLMICH, 1932  
*monticola chillanensis* MÜLLER and HELLMICH, 1932  
*monticola villaricensis* MÜLLER and HELLMICH, 1932  
*moradoensis* - see *bellii moradoensis*  
*morio* GAY, 1848 (= *pictus* fide DONOSO-BARROS, 1966)  
*mosaicus* HOMBON and JACQUINOT, 1847 (= *lemniscatus* fide BOULENGER, 1885)  
*multicolor* KOSLOWSKY, 1898 (valid fide LAURENT, 1982)  
*multiformis* COPE, 1876 (= *signifer* fide LAURENT, 1992)  
*multimaculatus* DUMÉRIL and BIBRON, 1837  
*multimaculatus riojanus* - see *riojanus*  
*neuquensis* MÜLLER and HELLMICH, 1939 (species status fide VIDELA and CEI, 1996)  
*neveui* [*variabilis neveui*] PELLEGRIN, 1909 (= *multiformis* fide HELLMICH, 1962; = *signifer* fide LAURENT, 1992)  
*niger* HALLOWELL, 1856 (? = *tenuis punctatissimus* fide PETERS and DONOSO-BARROS, 1970)  
*nigriceps* PHILIPPI, 1860  
*nigroroseus* - see *nigroviridis nigroroseus*  
*nigromaculatus* WIEGMANN, 1834  
*nigroviridis* MÜLLER and HELLMICH, 1932 (all subspecies invalid fide NÚÑEZ and JAKSIC, 1992)  
*nigroviridis campanae* HELLMICH, 1950 (= *nigroviridis* fide NÚÑEZ and JAKSIC, 1992)  
*nigroviridis minor* MÜLLER and HELLMICH, 1932 (= *nigroviridis* fide NÚÑEZ and JAKSIC, 1992)  
*nigroviridis nigroroseus* DONOSO-BARROS, 1966 (= *constanzae* fide NÚÑEZ and JAKSIC, 1992)  
*nitidus* WIEGMANN, 1834

- occipitalis* BOULENGER, 1885  
*olivaceus* WIEGMANN, 1834 (= *chiliensis* fide FITZINGER, 1843)  
*olongasta* ETHERIDGE, 1993  
*orientalis* [*annectens orientalis*] MÜLLER, 1924 (= *multiformis simonsii* fide BURT and BURT, 1931; valid species fide LAURENT, 1992)  
*orientalis orientalis* MÜLLER, 1924  
*orientalis chlorostictus* LAURENT, 1993  
*ornatus* KOSLOWSKY, 1898  
*ortizi* LAURENT, 1982  
*oxycephalus* WIEGMANN, 1834 (= *nigromaculatus* fide BOULENGER, 1885)  
*pachecoi* - see *jamesi pachecoi*  
*pagaburoi* LOBO and ESPINOZA, 1999  
*pallidus* PHILIPPI, 1860 (= *nigromaculatus* fide BOULENGER, 1885; = *melanopleurus* fide ORTIZ and NÚÑEZ, 1986)  
*pantherinus* PELLEGRIN, 1909 (= *signifer* fide LAURENT, 1992; valid species fide NÚÑEZ and JAKSIC, 1992)  
*patriciaiturrae* NAVARRO and NÚÑEZ, 1993  
*paulinae* DONOSO-BARROS, 1961  
*periglacialis* CEI and SCOLARO, 1982 (= *hatcheri* fide ETHERIDGE, 1998)  
*petrophilus* DONOSO-BARROS and CEI, 1971 (species status fide CEI and AVILA, 1996)  
*pictus*  
*pictus pictus* DUMÉRIL and BIBRON, 1837  
*pictus argentinus* MÜLLER and HELLMICH, 1939  
*pictus chiloeensis* MÜLLER and HELLMICH, 1939  
*pictus major* BOULENGER, 1885  
*pictus talcanensis* URBANA and ZUNGIA, 1977  
*platei* WERNER, 1898  
*platei curicensis* - see *curicensis*  
*pleopholis* LAURENT, 1998  
*poecilochromus* - see *andinus poecilochromus*  
*polystictus* LAURENT, 1992  
*prasinus* COPE, 1868 (= *pictus* fide BOULENGER, 1885)  
*proximus* WERNER, 1904 (= *magellanicus* fide HELLMICH, 1934)  
*pseudoanomalous* CEI, 1981 (substitute name for *marmoratus* BURMEISTER, 1861)  
*pseudolemniscatus* LAMBOROT and ORTIZ, 1990  
*ptychopleurus* LICHTENSTEIN, 1856 (= *tenuis* fide DONOSO-BARROS, 1966)  
*punctatissimus* - see *tenuis punctatissimus*  
*pulcher* PELLEGRIN, 1909 (= *ornatus* fide LAURENT, 1992; = *pantherinus* fide NÚÑEZ and JAKSIC, 1992)  
*pulcherrimus* LAURENT, 1993  
*puritamensis* NÚÑEZ and FOX, 1989 (= *dorbignyi* fide NÚÑEZ, 1992)  
*quilmes* ETHERIDGE, 1993  
*rabinoi* CEI, 1974  
*ramirezae* LOBO and ESPINOZA, 1999  
*ramonensis* MÜLLER and HELLMICH, 1932 (species status fide NÚÑEZ and JAKSIC, 1992)  
*reichei* WERNER, 1907  
*riojanus* CEI, 1979 (species status fide ETHERIDGE, 1992)  
*robertmertensi* HELLMICH, 1964  
*robustus* LAURENT, 1992  
*rosenmanni* NÚÑEZ and NAVARRO, 1992  
*rothi* KOSLOWSKY, 1898  
*ruibali* DONOSO-BARROS, 1961  
*ruizleali* DONOSO-BARROS and CEI, 1971 (= *rothi* fide CEI and SCOLARO, 1987)  
*salinicola* LAURENT, 1986

- sanjuanensis* CEI, 1982  
*sarmientoi* DONOSO-BARROS, 1973 (species status fide SCOLARO and CEI, 1997)  
*saxatilis* AVILA, CEI, MARTORI, and ACOSTA, 1992  
*scapularis* LAURENT, 1982  
*schmidti* MARX, 1960  
*schroederi* MÜLLER and HELLMICH, 1938  
*sieversi* - see *zapallarensis sieversi*  
*signifer*  
     *signifer signifer* DUMÉRIL and BIBRON, 1837  
     *signifer annectens* BOULENGER, 1901 (new combination fide LAURENT, 1992)  
*silvai* ORTIZ, 1989  
*simonsii* BOULENGER, 1902 (= *ornatus* fide LAURENT, 1992)  
*somuncurae* CEI and SCOLARO, 1981 (species status fide SCOLARO and CEI, 1997)  
*stantoni* GIRARD, 1854 (= *gravenhorstii* fide DONOSO-BARROS, 1969)  
*stolzmanni* STEINDACHNER, 1891  
*sylvanae* DONOSO-BARROS and CEI, 1971  
*tacnae* SHREVE, 1941 (transferred to *Liolaemus* LAURENT, 1992)  
*talcanensis* - see *pictus talcanensis*  
*tari* SCOLARO and CEI, 1997  
*tenuis* DUMÉRIL and BIBRON, 1837  
*tenuis punctatissimus* MÜLLER and HELLMICH, 1933 (= *tenuis* fide NÚÑEZ and JAKSIC, 1992)  
*tenuis micropunctatus* GOETSCH and HELLMICH, 1932 (nomen nudum for *tenuis punctatissimus*)  
*thermarum* VIDELA and CEI, 1996  
*thomasi* LAURENT, 1998  
*tristis* SCOLARO and CEI, 1997  
*tropidonotus* BOULENGER, 1902 (= *multiformis* fide BURT and BURT, 1931; = *signifer* fide LAURENT, 1992)  
*unicolor* GRAVENHORST, 1837 (= *nitidus* fide BOULENGER, 1885)  
*uspallatensis* MACOLA and CASTRO, 1982  
*valdesianus* HELLMICH, 1950 (species status fide NÚÑEZ and JAKSIC, 1992)  
*vallecurensis* PEREYRA, 1992  
*variegatus* LAURENT, 1984  
*velosoi* ORTIZ, 1987  
*walkeri* SHREVE, 1938 (valid species fide LAURENT, 1992)  
*werneri* MÜLLER, 1928 (= *anomalus* fide CEI, 1979)  
*wiegmannii* DUMÉRIL and BIBRON, 1837  
*williamsi* LAURENT, 1992  
*xanthoviridis* CEI and SCOLARO, 1980 (species status fide ETHERIDGE, 1992)  
*zapallarensis*  
     *zapallarensis zapallarensis* MÜLLER and HELLMICH, 1933  
     *zapallarensis ater* MÜLLER and HELLMICH, 1933  
     *zapallarensis sieversi* DONOSO-BARROS, 1954  
*zonatus* [*signifer zonatus*] KOSLOWSKY, 1898 (= *signifer* fide PETERS and DONOSO-BARROS, 1970; = *ornatus* fide LAURENT, 1986)  
*zullyi* CEI and SCOLARO, 1996

*Phymaturus* GRAVENHORST, 1838\*

This list includes all of the species and subspecies names that are now, or have been recognized under the generic names *Phymaturus* GRAVENHORST, 1838 and *Centrura* BELL, 1843. *Phymaturus palluma* also has appeared under

the generic names *Cordylus* MEYER 1795, *Stellio* LAURENTI, 1768; *Oplurus* CUVIER, 1829; *Uracentron* KAUP, 1826; and *Lucerta* [for *Lacerta*] LINNEAUS, 1758.

*antofagastensis* PEREYRA, 1985

*bibroni* GUICHENOT, 1848 (= *palluma* fide BOULENGER, 1885)

*daudini* as *Urocetron Daudini* FITZINGER, 1843 (substitute name for *Lacerta paluma* MOLINA, 1782)

*flagellifer* BELL, 1843 (= *palluma* fide BOULENGER, 1885)

*indistinctus* CEI and CASTRO, 1973 (species status fide ETHERIDGE, 1995)

*mallimaccii* CEI, 1980

*nevadoi* CEI and CASTRO, 1975 (species status fide ETHERIDGE, 1995)

*palluma* MOLINA, 1782

*patagonicus* KOSLOWSKY, 1898

*patagonicus indistinctus* - see *indistinctus*

*patagonicus nevadoi* - see *nevadoi*

*patagonicus payuniae* - see *payuniae*

*patagonicus somuncurensis* - see *somuncurensis*

*patagonicus zapalensis* - see *zapalensis*

*payuniae* CEI and CASTRO, 1973 (species status fide ETHERIDGE, 1995)

*punae* CEI, ETHERIDGE, and VIDELA, 1983

*somuncurensis* CEI and CASTRO, 1973 (species status fide ETHERIDGE, 1995)

*spurcus* BARBOUR, 1921 (= *patagonicus* fide BURT and BURT, 1931)

*zapalensis* CEI and CASTRO, 1973 (species status fide ETHERIDGE, 1995)

\*CeI and Lescure (1985) stated that the species described as *Lacerta palluma* [original spelling *Lucerta*] by Molina (1782) is as senior synonym of the teiid lizard *Callopistes maculatus* GRAVENHORST 1838 [the correct date is 1837]. If this assertion is correct, then Gravenhorst must have erred when he designated *Lacerta palluma* as the type species of his new genus *Phymaturus*. His illustration is clearly that of the lizard that has been known as *Phymaturus palluma* for over a century. CeI and Lescure (1985) were therefore led to revalidate the next available generic name, *Centrura* BELL, 1843, for all species referred to *Phymaturus*, and replace the binomial *Phymaturus palluma* with *Centrura flagellifer* BELL, 1843.

In the current International Code of Zoological Nomenclature (ICZN), published in 1985, Article 70.a requires that "If... a type species is considered to have been misidentified, the case is to be referred to the Commission to designate as the type species whichever nominal species will in its judgment best serve stability and universality of nomenclature, either the nominal species named in fixation, regardless of misidentification; or, by the use of the plenary power [Art. 7a]."

CeI (1993) stated that the 1985 ICZN was published after the 1985 work of CeI and Lescure. He designated *Phymaturus palluma* sensu GRAVENHORST, 1837 (non *Lacerta palluma* MOLINA, 1782) as the type species of *Phymaturus* and, because Gravenhorst's *Phymaturus palluma* is the same as *Callopistes flagellifer* BELL, 1843, he employed the binomial *Phymaturus flagellifer*.

Although we do not dispute the assertion that the species described by Molina (1782) as *Lucerta palluma* is not the species that has been known as *Phymaturus palluma* for over a century, we believe our best course is to continue to use this name until the matter has been resolved by the Commission according to the requirements of Article 70.5 of the 1985 ICZN.

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p. 2 - allopatric subspecies of *Phymaturus patagonicus* considered valid species; p. 17 - *Ctenoblepharys* is a monotypic genus containing only the type species, *C. adspersa* which shares no derived characters either with *Phymaturus* or *Liolaemus*; p. 18 - *Abas*, *Ceiolaemus*, *Pelusaurus*, and *Phrynosaura* are synonyms of *Liolaemus*; p. 19 - *Rhytidodeira* and *Velosaura* are synonyms of *Liolaemus*; p. 20 - *Vilcunia* and *Eulaemus* are synonyms of *Liolaemus*; p. 22 - *Mesolaemus* and *Ortholaemus* are synonyms of *Liolaemus*; p. 31-34 - indented taxonomy of Liolaeminae includes *Ctenoblepharys adspersa*, 10 species of *Phymaturus*, and 128 species of *Liolaemus*.
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