

Case 2802***Anisolepis grilli* Boulenger, 1891 (Reptilia, Squamata): proposed conservation of the specific name**

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Abstract. Two species of the lizard genus *Anisolepis* Boulenger, 1885 (family POLYCHRIDAE) occur in southeastern Brazil, Uruguay and northern Argentina. In this century they have been referred to as *A. undulatus* (Wiegmann, 1834) and *A. grilli* Boulenger, 1891. The purpose of this application is to conserve the specific name *grilli* for the species which occurs in Brazil and Misiones Provinces, Argentina. The name is threatened by two senior subjective synonyms, *Laemancus fitzingeri* and *L. obtusirostris*, both of Wiegmann (1834).

1. Wiegmann (1834, p. 45) described the genus *Laemancus* and included four new nominal species. Brief descriptions were provided (p. 46) for three Brazilian species, *fitzingeri*, *obtusirostris* and *undulatus*, and a lengthy description for a Mexican species, *longipes*. Duméril & Bibron (1837, pp. 72–76) repeated the descriptions of *fitzingeri*, *obtusirostris* and *undulatus*. Fitzinger (1843, p. 16) designated *longipes* as the type species of *Laemancus*.

2. Wiegmann's nominal species *fitzingeri*, *obtusirostris* and *undulatus* have been placed in a number of genera: by Fitzinger (1843, p. 62) in *Urostrophus* Duméril & Bibron, 1837 (type species *U. vautieri* Duméril & Bibron, 1837); by Gray (1845, pp. 184–185) in *Echymotes* Fitzinger, 1826 (type species *Polychrus acutirostris* Spix, 1825); and by Boulenger (1885b, p. 121) in *Enyalius* Wagler, 1830 (type species *Agama catenata* Wied-Neuwied, 1821). Gray (1845) based his descriptions of the three species entirely on those of Wiegmann (1834); his work is the last in which the name *obtusirostris* was used as valid. Boulenger (1885b) included the latter as a synonym of *undulatus*.

3. Boulenger (1885a, p. 85) established the new genus *Anisolepis* with the single species *iheringii*, based on two female specimens in the Natural History Museum, London (catalogue nos. 1946.8.5.90–91, formerly 85.6.26.4–5). *A. iheringii* is therefore the type species of the genus by monotypy. Later that year Boulenger (1885b, p. 122, pl. 9, fig. 3) repeated the description and figured *A. iheringii*. In the 'Addenda and Corrigenda' (1887, pp. 500–501) the species *undulatus* was transferred to *Anisolepis* and *iheringii* was placed in its synonymy; *undulatus* has since been treated as the valid name of the type species of *Anisolepis*. In 1891 (p. 909) Boulenger described *A. grilli* from

Palmeira, Brazil. Peters & Donoso-Barros (1970, p. 42) subsequently synonymized the nominal species *A. lionotus* Werner, 1897 (p. 470) from Blumenau, Brazil, with *grilli*. Both *undulatus* Wiegmann, 1834 and *grilli* Boulenger, 1891 are regarded as the valid names for the Brazilian species of *Anisolepis* and are not considered to be synonymous with the names of the type species of any of the genera mentioned in para. 2 above.

4. One of us (Etheridge, 1969, p. 239) briefly examined the holotypes of *Laemancus fitzingeri*, *obtusirostris* and *undulatus* in the Museum für Naturkunde der Humboldt-Universität, Berlin (catalogue nos. 495, 496 and 497 respectively), and considered them to be one species, currently known as *Anisolepis undulatus*. Etheridge also pointed out that it was clear from Boulenger's (1885b, p. 121) characterization of *Enyalius fitzingeri*, as well as from an examination of his specimens, that the species known as *fitzingeri* since Boulenger's work is actually *Enyalius bilineatus* Duméril & Bibron, 1837 (see, for example, Burt & Burt, 1933, p. 23 and Amaral, 1937, pp. 176, iv, in which the name *fitzingeri* has been misused in the sense of *bilineatus*). We have both (Etheridge & Williams, 1991, p. 332) since re-examined the holotypes of *fitzingeri*, *obtusirostris* and *undulatus* and compared them with one of the two syntypes of *Anisolepis grilli* (catalogue no. 1946.8.5.58 (formerly 91.9.24.10) in the Natural History Museum, London; the second syntype, no. 1946.8.12.38 (formerly 91.11.19.27) is a skeletal preparation). We found that, contrary to Etheridge (1969), the types of *fitzingeri* and *obtusirostris* are conspecific with *grilli*, and not with *undulatus*. We published descriptions of the two Brazilian species of *Anisolepis*, together with a diagnostic key (1991, p. 351).

5. The name *Anisolepis grilli* Boulenger, 1891 has been widely cited in works on genetics, biology and ecology, as well as taxonomy, and has appeared in the following representative list of recent publications: Gorman, Atkins & Holzinger, 1967, pp. 283, 209 and Gorman, 1973, p. 373 (chromosome number); Maderson, 1970, p. 197 (digital scale structure); Peters & Donoso-Barros, 1970, p. 42 (synonymy, distribution and key); Soma, Beçak & Beçak, 1974a, p. 227 (karyotype and DNA content); Soma, Beçak & Beçak, 1974b, p. 1325 (DNA content); Gallardo, 1977, p. 125 (behavior and comparison with *undulatus*); Rand, 1982, pp. 173–174 (body size and egg clutch size); Vanzolini, 1983, p. 127 (sympatry with *Polychrus acutirostris*); Olmo, 1984, p. 22 (genome size); Etheridge & de Queiroz, 1988, p. 305 (digital lamellar scales); Etheridge & Williams, 1991 (morphology, taxonomy, distribution and relationships). The name *obtusirostris* Wiegmann, 1834 has not been used for more than 150 years (see para. 2 above), and *fitzingeri* Wiegmann, 1834 has been misused for another species (see para. 4 above). To resurrect either of these names for the taxon currently called *grilli* would cause confusion and seriously threaten nomenclatural stability. We have previously recorded our intention to apply to the Commission for the suppression of the names *fitzingeri* and *obtusirostris* (Etheridge & Williams, 1991, p. 332, footnote).

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the following specific names for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:
 - (a) *fitzingeri* Wiegmann, 1834, as published in the binomen *Laemancus fitzingeri*;
 - (b) *obtusirostris* Wiegmann, 1834, as published in the binomen *Laemancus obtusirostris*;

- (2) to place on the Official List of Specific Names in Zoology the name *grilli* Boulenger, 1891, as published in the binomen *Anisolepis grilli*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the following names:
 - (a) *fitzingeri* Wiegmann, 1834, as published in the binomen *Laemanctus fitzingeri* and as suppressed in (1)(a) above;
 - (b) *obtusirostris* Wiegmann, 1834, as published in the binomen *Laemanctus obtusirostris* and as suppressed in (1)(b) above.

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