The tadpole of *Pleurodema cordobae* Valetti, Salas & Martino, 2009
(Anura: Leiuperidae) from Córdoba, Argentina

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The frog genus *Pleurodema* Tschudi, 1838 is distributed from Panama throughout South America to southern Chile and
Argentina and currently is represented by 15 species, of which 10 have been recorded in Argentina (Faivovich *et al*. 2012).
Recently, Valetti *et al*. (2009) re-described the tetraploid species *P. krieqi* and described a related cryptic species,
the octoploid *Pleurodema cordobae*. These species are endemic of the Sierra Grande of Córdoba (Ferraro & Casagranda
2009; Valetti *et al*. 2009; Valetti *et al*. 2011) and together with the tetraploid *P. bibrioni* comprise a clade of polyploid
cryptic species within the genus (Faivovich *et al*. 2012). The external morphology has been described for the tadpoles of
*P. bibrioni* and *P. krieqi* by Kolenc *et al*. (2009), but the tadpole of *P. cordobae* remains undescribed. The aim of this
work is to describe the larval external morphology and oral disc of new species *P. cordobae*.

Tadpoles were collected in December 2007 from semi-permanent ponds in Estancia los Tabaquillos, Córdoba
province (32°23’58.4”S, 64°55’35.1” W, altitude: 2105 m). In this site its cryptic counterpart *P. krieqi* is not present. They
were anesthetized with a 2 % chloroethane solution after capture and later fixed in 10 % buffered formalin. The
description was based on 15 specimens at stage 35-38 of development (following Gosner 1960). We measured 18
morphometrical variables: Total length (TL); Body length (BL); Tail length (TAL); Maximum tail height (MTH); Upper
fin height (UF); Lower fin height (LF); Tail muscle height (TMH); Tail muscle width (TMW); Body maximum width
(BMW); Body maximum height (BMH); Interocular distance (IO, measured between the internal edges of eyes);
Internarial distance (IN, measured between the internal edges of narial apertures); Eye diameter (ED); Rostro-spiracular
distance (RS, measured horizontally from the tip of the snout to the posterior edge of the spiracular tube); Rostronal
distance (RN); Eye-narinal distance (END); Oral disc width (OD) and dorsal gap (DG). Morphometric measurements
were taken on all specimens using a Zeiss SR stereomicroscope with a micrometer to nearest 0.1 mm. Terminology and
Specimens were deposited in the herpetological collection of Fundación Miguel Lillo (FML 25039), Tucumán,
Argentina.

**Descriptions of tadpole:** At stages 35-38 mean total length is 38.98 ± 3.56 mm, the body length is about 40% of
total length (mean BL/TL = 0.418 ± 0.02). The body is ovoid in dorsal view with a constriction behind the cephalic
region and depressed in lateral view (mean BMH/BMW = 0.83 ± 0.037) (Fig. 1A). The maximum width is placed at the
posterior portion of the head, behind the eyes. Maximum height is at the last third of the body. Tail length 3.2 times tail
height. Dorsal fin is slightly higher than ventral fin (mean UF/LF=1.106 ± 0.04). The tail musculature is robust and does
not reach the tail end. The snout is trapezoidal in dorsal and ventral view. In lateral view, the end of the snout is truncated
and rounded. Eyes are small (mean ED/BMW = 0.178 ± 0.012), directed dorsolaterally, and are visible in dorsal and
lateral view. Internal borders of the nares slightly elevated. Narinal openings are rounded and located dorsolaterally,
more visible dorsally than laterally. Internarial distance are about half between of interocular distance (mean IN/IO = 0.533 ± 0.025) and slightly closer to the eyes than to the tip of the snout (mean RN/END = 1.204 ± 0.140). Spiracle tube is single, lateral, sinistral, short and posterodorsally directed. The spiracle is placed in the third quarter of the body (mean RS/BL = 0.565 ± 0.019). Spiracular opening is positioned medially. The vent tube starts in the mid-posterior region of the abdomen; it is attached to ventral fin, opening medially.