

Dermal arrangements of adult toad skin *Bufo marinus*: the basis to revise the nomina established

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The particular features that were observed in the dermis of the anuran skin *Bufo marinus* studied by histological, histochemical and ultrastructural methods permit to propose an additional nomenclature to different strata of dermal region. Nineteen adult toads (10 males and 9 females) were sacrificed by bulbar dissection and skin strips from abdominal and dorsal regions submitted by conventional histological procedures to perform observations by light microscopy and low vacuum scanning microscopy. The particular features that were observed in the dermis of the anuran skin *Bufo marinus* studied by histological, histochemical and ultrastructural methods permit to propose an additional nomenclature to different strata of dermal region: 1. Subepidermic dermis, constituted by a loose connective tissue with delicate mesh of collagen fibers, capillaries, ductal glands, chromatophores and branched oxytalan fibers; in addition, basement membrane is argyrophilic, alcianophilic at pH 2.5 and PAS-positive, assuming hyaluronic acid and sulfated PGs/GAGs present in this layer; 2. Intermediary dermis, constituted by an irregular and coarse mesh of dense connective tissue containing secretory portions of the alveolar mucous and granular glands, irregular spaces to calcium deposits and scattered chromatophores; intense basophilia about the collagen fibers is visible; 3. Arciform dermis, made up of irregular criss-crossed plies of dense connective tissue, whose collagen fibers are enmeshed in PGs/GAGs network, and containing large spaces, the principal area of calcium deposits; 4. Lamellar dermis, a well ordered dense connective tissue organized in plywood lamellae of collagen fibers being parallel within a lamella but successive lamellae, in different planes, having collagen fibers pronounced angles to one another, forming a ply structure; all lamellae coursing parallel to skin surface, which. Collagen fibers are devoid of PGs-GAGs positivity by histochemical methods or presence of calcium by vK. Fibrous-vascular columns arise from the hipodermis until reach the epidermis, which contain oxytalan fiber about the vessel walls. At the hipodermis was observed positivity to elaunin and/or elastic fibers. The authors show particular features of gross and microanatomy of the skin of toad *Bufo marinus*, and motivated by these multiple structural observations upon the anuran skin of the specie *Bufo marinus* propose some alterations in the nomina of such dermal arrangements.