

## Voucher specimens and GenBank accession numbers.

Electr. Suppl. 11, part 2. – to:

Glaw, F., Vences, M. (2006):

Phylogeny and genus-level classification of mantellid frogs (Amphibia, Anura).

Org. Divers. Evol. 6(3): 236-253.

Voucher specimens are deposited in the herpetological collections of the Museo Regionale di Scienze Naturali, Torino (MRSN), Université d'Antananarivo, Département de Biologie Animale (UADBA), Zoologisches Forschungsinstitut und Museum A. Koenig, Bonn (ZFMK), and Zoologische Staatssammlung München (ZSM). Some UADBA numbers (UADBA-FG/MV and UADBA-MV) are preliminary field numbers by F. Glaw and M. Vences; for some other yet uncatalogued specimens only the field numbers (MV and FGZC) are given; some MRSN numbers (MRSN-FAZC or MRSN-RJS) are preliminary field numbers by F. Andreone and J.E. Randrianirina. Asterisks mark sequences newly obtained in this study.

### Boophinae

*Boophis boehmei*: DQ235433\* (cytochrome b), AY341798 (rhodopsin), AY341612 (12S and tRNA<sub>val</sub>), AY341669 (16S [5' fragment]), AY341717 (16S [3' fragment]); all sequences from specimen UADBA-MV 2001.1205 (Andasibe, Madagascar).

*Boophis doulioti*: AY341792 (rhodopsin), AY341608 (12S and tRNA<sub>val</sub>), AY341663 (16S [5' fragment]), AF215334 (ZFMK 66690; Kirindy, Madagascar) (16S [3' fragment]); all other sequences from specimen ZSM 185/2002 (Nahampoana, Madagascar).

*Boophis goudoti*: AY341797 (rhodopsin), AY341611 (12S and tRNA<sub>val</sub>), AY341668 (16S [5' fragment]), AJ315917 (not preserved; Col des Tapias, Madagascar) (16S [3' fragment]); all other sequences from specimen UADBA-MV 2001.557 (Andringitra, Madagascar).

*Boophis idae*: AY341795 (rhodopsin), AY341609 (12S and tRNA<sub>val</sub>), AY341666 (16S [5' fragment]), AY341715 (16S [3' fragment]); all sequences from specimen ZSM 45/2002 (Andasibe, Madagascar).

*Boophis luteus*: DQ235434\* (cytochrome b), AY341800 (rhodopsin), AY341614 (12S and tRNA<sub>val</sub>), AY341671 (16S [5' fragment]), AJ315916 (UADBA-FG/MV 2000.063; Andasibe, Madagascar) (16S [3' fragment]); all sequences from specimen UADBA-FG/MV 2000.63 (Andasibe, Madagascar).

*Boophis marojezensis*: DQ235437\* (cytochrome b), from specimen ZSM 330/2000 (Vohidrazana, Madagascar); AY341803 (rhodopsin), AY341617 (12S and tRNA<sub>val</sub>), AY341674 (16S [5' fragment]), AJ315923 (ZSM 326/2000; Vohidrazana, Madagascar) (16S [3' fragment]); all other sequences from specimen ZSM 189/2002 (Vohidrazana, Madagascar).

*Boophis microtypanum*: AY341799 (rhodopsin), AY341613 (12S and tRNA<sub>val</sub>), AY341670 (16S [5' fragment]), AJ315918 (16S [3' fragment]); all sequences from specimen ZSM 393/2000 (Col des Tapias, Madagascar).

*Boophis occidentalis*: DQ235440\* (cytochrome b), from specimen MV 2000D53 (Berara, Madagascar); AY341806 (rhodopsin), AY341620 (12S and tRNA<sub>val</sub>), AY341677 (16S [5' fragment]), AY341720 (16S [3' fragment]), from specimen ZSM 44/2002 (Antoetra, Madagascar).

*Boophis rappiodes*: DQ235438\* (cytochrome b), AY341804 (rhodopsin), AY341618 (12S and tRNA<sub>val</sub>), AY341675 (16S [5' fragment]), AJ314815 (16S [3' fragment]); all sequences from specimen ZSM 347/2000 (Andasibe, Madagascar).

*Boophis sibilans*: DQ235435\* (cytochrome b), AY341801 (rhodopsin), AY341615 (12S and tRNA<sub>val</sub>), AY341672 (16S [5' fragment]), AY341718 (16S [3' fragment]); all sequences from specimen ZSM 39/2002 (Andasibe, Madagascar).

*Boophis tephraeomystax*: AF249070 (cytochrome b), AY341793 (rhodopsin), AF249168 (tyrosinase),

AF249009 (12S and tRNA<sub>val</sub>), AY341664 (16S [5' fragment]), AJ312116 (16S [3' fragment]); all sequences from specimen UADBA-FG/MV 2000.379 (Sambava, Madagascar).

*Boophis viridis*: DQ235439\* (cytochrome b), AY341805 (rhodopsin), AY341619 (12S and tRNA<sub>val</sub>), AY341676 (16S [5' fragment]), AJ314818 (16S [3' fragment]); all sequences from specimen ZSM 338/2000 (Andasibe, Madagascar).

*Boophis vittatus*: DQ235436\* (cytochrome b), AY341802 (rhodopsin), AY341616 (12S and tRNA<sub>val</sub>), AY341673 (16S [5' fragment]), AY341719 (16S [3' fragment]); all sequences from specimen UADBA-FG/MV 2000.82 (Tsaratanana, Madagascar).

*Boophis xerophilus*: AY341794 (rhodopsin), AF249008 (12S and tRNA<sub>val</sub>), AY341665 (16S [5' fragment]), AF215335 (16S [3' fragment]); all sequences from specimen ZFMK 66705 (Kirindy, Madagascar).

*Boophis* new species (Comoros): AY341733 (cytochrome b), AY341796 (rhodopsin), AY341752 (tyrosinase), AY341610 (12S and tRNA<sub>val</sub>), AY341667 (16S [5' fragment]), AY341716 (16S [3' fragment]); all sequences from specimen ZSM 658/2000 (Tsingoni, Mayotte).

### Laliostominae

*Aglyptodactylus madagascariensis*: AF249068 (cytochrome b), AF249103 (rhodopsin), AF249166 (tyrosinase), AF249007 (12S and tRNA<sub>val</sub>), AY341678 (ZSM 183/2002; Tolagnaro, Madagascar) (16S [5' fragment]), AF249036 (16S [3' fragment]).

*Laliostoma labrosum*: AF249096 (cytochrome b), AF249106 (rhodopsin), AF249169 (tyrosinase), AF249010 (12S and tRNA<sub>val</sub>), AY341679 (UADBA-MV 2001.289; Ankarafantsika, Madagascar) (16S [5' fragment]), AF249037 (16S [3' fragment]).

### Mantellinae

*Blommersia blommersae*: DQ235418\* (cytochrome b), AY341770 (rhodopsin), AY341584 (12S and tRNA<sub>val</sub>), AY341638 (16S [5' fragment]), AF317688 (16S [3' fragment]); all sequences from specimen UADBA-FG/MV 2000.65 (Andasibe, Madagascar).

*Blommersia domerguei*: DQ235416\* (cytochrome b), AY341768 (rhodopsin), AY341582 (12S and tRNA<sub>val</sub>), AY341636 (16S [5' fragment]), AF317689 (16S [3' fragment]); all sequences from specimen ZSM 353/2000 (Mantaoa, Madagascar).

*Blommersia grandisonae*: AY341771 (rhodopsin), AY454361 (12S and tRNA<sub>val</sub>), AY341640 (16S [5' fragment]), AF215315 (16S [3' fragment]); all sequences from specimen ZFMK 66669 (Ambato, Madagascar).

*Blommersia kely*: DQ235417\* (cytochrome b), AY341769 (rhodopsin), AY341583 (12S and tRNA<sub>val</sub>),

AY341637 (16S [5' fragment]), AF317690 (16S [3' fragment]); all sequences from specimen ZSM 363/2000 (Ambatolampy, Madagascar).

*Blommersia sarotra*: DQ235420\* (cytochrome b), AY341773 (rhodopsin), AY341588 (12S and tRNA<sub>val</sub>), AY341643 (16S [5' fragment]), AF317687 (16S [3' fragment]), all sequences from specimen ZSM 354/2000 (Mandraka, Madagascar).

*Blommersia wittei*: AY341732 (cytochrome b), AY323743 (rhodopsin), AY341751 (tyrosinase), AY341586 (12S and tRNA<sub>val</sub>), AY341641 (16S [5' fragment]), AF317691 (UADBA-FG/MV 2000.123; Ambanja) (16S [3' fragment]); all other sequences from specimen ZSM 405/2000 (Benavony, Madagascar).

*Blommersia* new species (Comoros): AY341731 (cytochrome b), AY323742 (rhodopsin), AY341750 (tyrosinase), AY341585 (12S and tRNA<sub>val</sub>), AY341639 (16S [5' fragment]), AY330888 (16S [3' fragment]); all sequences from specimen ZSM 652/2000 (Mont Combani, Mayotte).

*Boehmantis microtympanum*: DQ235445\* (rhodopsin), DQ235455\* (12S and tRNA<sub>val</sub>), DQ235451\* (16S [5' fragment]), all sequences from specimen ZSM 158/2002 (Nahampoana, Madagascar); AY848205, (16S [3' fragment]), from specimen ZSM 82/2004 (Andohahela, Madagascar).

*Gephyromantis asper*: DQ235426\* (cytochrome b), AY341783 (rhodopsin), AY341598 (12S and tRNA<sub>val</sub>), AY341653 (16S [5' fragment]), AJ314802 (16S [3' fragment]); all sequences from specimen UADBA-FG/MV 2000.17 (Mandraka, Madagascar).

*Gephyromantis boulengeri*: DQ235442\* (cytochrome b), DQ235450\* (16S [5' fragment]), AY848325 (16S [3' fragment]); all sequences from specimen MV 2001.1204 (Andasibe, Madagascar).

*Gephyromantis granulatus*: AY341779 (rhodopsin), AY341594 (12S and tRNA<sub>val</sub>), AY341649 (16S [5' fragment]), AJ314794 (ZSM 645/2001, Tsaratanana) (16S [3' fragment]); all other sequences from specimen MRSN-FAZC 8011 (Nosy Be, Madagascar).

*Gephyromantis horridus*: AY341781 (rhodopsin), AY341596 (12S and tRNA<sub>val</sub>), AY341651 (16S [5' fragment]), AY341708 (16S [3' fragment]); all sequences from specimen UADBA 10002 (Tsaratanana, Madagascar).

*Gephyromantis redimitus*: DQ235425\* (cytochrome b), from specimen MV 2001.1157 (Vohidrazana, Madagascar); AY341778 (rhodopsin), AY341593 (12S and tRNA<sub>val</sub>), AY341648 (16S [5' fragment]), AY341707 (16S [3' fragment]), from specimen ZSM 152/2002 (Vohidrazana, Madagascar).

*Gephyromantis rivicola*: DQ235449\* (16S [5' fragment]), all sequences from specimen MV 2001.1381 (Andranofotsy, Madagascar).

*Gephyromantis sculpturatus*: AY341782 (rhodopsin), AY341597 (12S and tRNA<sub>val</sub>), AY341652 (16S [5' fragment]), AY341709 (16S [3' fragment]); all sequences from specimen ZSM 95/2002 (Mantady, Madagascar).

*Gephyromantis striatus*: AY341780 (rhodopsin), AY341595 (12S and tRNA<sub>val</sub>), AY341650 (16S [5' fragment]), AJ314796 (16S [3' fragment]).

*Gephyromantis webbi*: DQ235441\* (cytochrome b), DQ235448\* (16S [5' fragment]), all sequences from specimen MV 2001.1377 (Andranofotsy, Madagascar).

*Guibemantis* cf. *albolineatus*: DQ235414\* (cytochrome b), AY341766 (rhodopsin), AY341580 (12S and tRNA<sub>val</sub>), AY341635 (16S [5' fragment]), AY341701 (16S [3' fragment]); all sequences from specimen ZSM 250/2002 (Andasibe, Madagascar).

*Guibemantis* cf. *bicalcaratus*: DQ235415\* (cytochrome b), from specimen MV 2002.2416 (Fierenana, Madagascar); DQ235443\* (rhodopsin), DQ235453\* (12S and tRNA<sub>val</sub>), from specimen Kath1999 (east coast, Madagascar).

*Guibemantis depressiceps*: DQ235422\* (cytochrome b), AY341775 (rhodopsin), AY341590 (12S and tRNA<sub>val</sub>), AY341645 (16S [5' fragment]), AF215326 (ZFMK 60131, Andasibe) (16S [3' fragment]); all other sequences from specimen ZSM 688/2001 (Andasibe, Madagascar).

*Guibemantis liber*: DQ235422\* (cytochrome b), from specimen MV 2002.276 (Ranomafana, Madagascar); AY341774 (rhodopsin), AY341589 (12S and tRNA<sub>val</sub>), AY341644 (16S [5' fragment]), AJ314801 (16S [3' fragment]), from specimen ZSM 491/2000 (Montagne d'Ambre, Madagascar).

*Mantella laevigata*: AY723690 (cytochrome b), AY263277 (rhodopsin), AY341607 (12S and tRNA<sub>val</sub>), AJ438538 (16S [5' fragment]), AF215279 (16S [3' fragment]).

*Mantella madagascariensis*: AF249076 (cytochrome b), AF249101 (rhodopsin), AF249164 (tyrosinase), AF249005 (12S and tRNA<sub>val</sub>), AJ438892 (16S [5' fragment]), AF249049 (16S [3' fragment]).

*Mantidactylus ambreensis*: DQ235431\* (cytochrome b), AY341788 (rhodopsin), AY341603 (12S and tRNA<sub>val</sub>), AY341659 (16S [5' fragment]), AY324822 (ZSM 492/2000; Montagne d'Ambre) (16S [3' fragment]); all other sequences from specimen ZSM 634/2001 (Tsaratanana, Madagascar).

*Mantidactylus argenteus*: DQ235421\* (cytochrome b), DQ235444\* (rhodopsin), DQ235454\* (12S and tRNA<sub>val</sub>), DQ235447\* (16S [5' fragment]); all sequences from specimen MV 2001.1144 (Mantady, Madagascar).

*Mantidactylus biporus*: DQ235427\* (cytochrome b), from specimen MV 2002.2423 (Fierenana, Madagascar); AY341784 (rhodopsin), AY341599 (12S and tRNA<sub>val</sub>), AY341655 (16S [5' fragment]), AF215322 (ZFMK 70481, Masoala) (16S [3' fragment]); all other sequences from specimen ZSM 122/2002 (Andranofotsy, Madagascar).

*Mantidactylus charlotteae*: AY341790 (rhodopsin), AY341605 (12S and tRNA<sub>val</sub>), AY341661 (16S [5' fragment]), AY341713 (16S [3' fragment]); all sequences from specimen ZSM 127/2002 (Andranofotsy, Madagascar).

*Mantidactylus cowanii*: DQ235429\* (cytochrome b), AY341786 (rhodopsin), AY341601 (12S and tRNA<sub>val</sub>), AY341657 (16S [5' fragment]), AY341711 (16S [3' fragment]); all sequences from specimen ZSM 171/2002 (Mantady, Madagascar).

*Mantidactylus femoralis*: DQ235430\* (cytochrome b), AY341787 (rhodopsin), AY341602 (12S and tRNA<sub>val</sub>), AY341658 (16S [5' fragment]), AY324812 (16S [3' fragment]); all sequences from specimen UADBA-MV 2001.1277 (Andasibe, Madagascar).

*Mantidactylus grandidieri*: DQ235432\* (cytochrome b), AY341789 (rhodopsin), AY341604 (12S and tRNA<sub>val</sub>), AY341660 (16S [5' fragment]), AY341712 (16S [3' fragment]); all sequences from specimen UADBA-MV 2001.1201 (Andasibe, Madagascar).

*Mantidactylus* cf. *lugubris*: DQ235428\* (cytochrome b), from specimen MV 2002B7 (Nahampoana, Madagascar); AY341785 (rhodopsin), AY341600 (12S and tRNA<sub>val</sub>), AY341656 (16S [5' fragment]), AY341710 (16S [3' fragment]), from specimen ZSM 166/2002 (Mantady, Madagascar).

*Mantidactylus opiparis*: AY341791 (rhodopsin), AY341606 (12S and tRNA<sub>val</sub>), AY341662 (16S [5' fragment]), AY341714 (16S [3' fragment]); all sequences from specimen UADBA-MV 2001.1069 (Marolambo region, Madagascar).

*Mantidactylus* aff. *ulcerosus*: AF249102 (rhodopsin), AF249006 (12S and tRNA<sub>val</sub>), AY341654 (16S [5' fragment]), AF215319 (16S [3' fragment]); all sequences from specimen ZFMK 66659 (Ambato, Madagascar).

*Spinomantis massorum*: AY341776 (rhodopsin), AY341591 (12S and tRNA<sub>val</sub>), AY341646 (16S [5' fragment]), AY341705 (16S [3' fragment]); all sequences from specimen MRSN-FAZC 6737 (Ambolokopatrika, Madagascar).

*Spinomantis peraccae*: DQ235424\* (cytochrome b), AY341777 (rhodopsin), AY341592 (12S and tRNA<sub>val</sub>), AY341647 (16S [5' fragment]), AY341706 (16S [3' fragment]); all sequences from specimen MRSN-RJS 109 (Tsaratanana, Madagascar).

*Wakea madinika*: DQ235419\* (cytochrome b), AY341772 (rhodopsin), AY341587 (12S and tRNA<sub>val</sub>), AY341642 (16S [5' fragment]), AY341703 (16S [3' fragment]); all sequences from one paratype specimen from Antsirarasira, Madagascar.

### Outgroup taxa

*Rana temporalis*: AF249083 (cytochrome b), AF249118 (rhodopsin), AF249181 (tyrosinase), AF249022 (12S and tRNA<sub>val</sub>), AY341683 (16S [5' fragment]), AF215390 (16S [3' fragment]).

*Rana temporaria*: AF249078 (cytochrome b), AF249119 (rhodopsin), AF249182 (tyrosinase), AF249023 (12S and tRNA<sub>val</sub>), AY341684 (16S [5' fragment]), AF249048 (16S [3' fragment]).

*Polypedates cruciger*: AF249089 (cytochrome b), AF249124 (rhodopsin), AF249187 (tyrosinase), AF249028 (12S and tRNA<sub>val</sub>), AY341685 (16S [5' fragment]), AF215357 (16S [3' fragment]).