

**Publication****Diversity and biogeography of frogs in the genus *Amnirana* (Anura: Ranidae) across sub-Saharan Africa****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 4190575**Author(s)** Jongsma, Gregory F.M.; Barej, Michael F.; Barratt, Christopher D.; Burger, Marius; Conradie, Werner; Ernst, Raffael; Greenbaum, Eli; Hirschfeld, Mareike; Leaché, Adam D.; Penner, Johannes; Portik, Daniel M.; Zassi-Boulou, Ange-Ghislain; Rödel, Mark-Oliver; Blackburn, David C.**Author(s) at UniBasel** [Barratt, Christopher](#) ;**Year** 2017**Title** Diversity and biogeography of frogs in the genus *Amnirana* (Anura: Ranidae) across sub-Saharan Africa**Journal** Molecular Phylogenetics and Evolution**Volume** 120**Pages / Article-Number** 274-285

Frogs in the genus *Amnirana* (family Ranidae) are widely distributed across sub-Saharan Africa and present a model system for exploring the relationship between diversification and geography across the continent. Using multiple loci from the mitochondrial (16S) and nuclear genomes (DISP2, FICD, KIAA2013, REV3L), we generated a strongly supported species-level phylogeny that provides insights into the continental biogeography of African species of *Amnirana*, which form a monophyletic group within the genus. Species delimitation analyses suggest that there may be as many as seven additional species of *Amnirana* in Africa. The biogeographic history of *Amnirana* is marked by several dispersal and vicariance events, including dispersal from the Lower Guinean Forest into the Congo Basin. In addition, phylogeographic patterns within two widespread species, *A. albolabris* and *A. galamensis*, reveal undescribed cryptic diversity. Populations assigned to *A. albolabris* in western Africa are more closely related to *A. fonensis* and require recognition as a distinct species. Our analyses reveal that the Lower and Upper Guinean Forest regions served as important centers of interspecific and intraspecific diversifications for *Amnirana*.

**Publisher** Elsevier**ISSN/ISBN** 1055-7903 ; 1095-9513**edoc-URL** <http://edoc.unibas.ch/59139/>**Full Text on edoc** No;**Digital Object Identifier DOI** 10.1016/j.ympev.2017.12.006**Document type (ISI)** article