



Abstract 8

Phylogeographic Assessment Of *Acanthodactylus* *Boskianus* (Squamata: Lacertidae) Population From Fayoum Depression Of Egypt

Hagar I. H. Bayoumi* ; Mohammed I. Ahmed ; Ehab M. AbouZied* ; Samah M. Fathy*
and Eraqi R. Khannoon***

***Zoology Department - Faculty of Science - Fayoum University - Fayoum - Egypt**

****Department of Marine Biology - Faculty of Science - Suez Canal University – Egypt**

Published in: *Egyptian Journal of Zoology*

ISSN: 2682-3160

Phylogeography has contributed considerably to our understanding of factors influencing population structure and species divergence. We assess the phylogenetic structure of the widely distributed lacertid lizard *Acanthodactylus boskianus*, collected for this study from the Fayoum Depression in Egypt, using partial mitochondrial DNA (12S rRNA and ND4). We analyze specimens of *A. boskianus* from the Fayoum Depression and compare the genetic content to gene bank-retrieved data for the South Sinai Peninsula and Siwa Oasis. The phylogenetic results indicate two isolated geographic lineages. We suggest that the divergence observed in this phylogenetic study is probably due to the geographical and physical barrier represented by the Nile River, which could have been responsible for a vicariant event producing divergent populations east and west of the Nile. Environmental factors are also discussed.

عميد الكلية

أ.د/ عرفة صبري جمعه حسن

رئيس القسم

أ.د/ ايهاب معاذ أبو زيد