



---

# Retina damage after exposure to UVA radiation on the early developmental stages of the Egyptian toad *Bufo regularis* Reuss

Alaa El-Din H. Sayed a,\* , Ekbal T. Wassif a , Afaf I. Elballouz

## Abstract:

The present study was carried out to investigate the histological and histochemical changes in the retina on different developmental stages of Egyptian toad *Bufo regularis*. Our experiment started when tadpoles begin to feed. The adapted embryos are divided into 3 large tanks of 200 embryos each, collections of samples started from feeding age every three days. Both histological and histochemical results showed that the general architecture of the retina organ is correlated with the state of development. Therefore, it displayed different characteristic features depending on the investigated developmental stage starting from the larval stage (feeding began, stage 44) and ending with the postmetamorphic stage 66. Also, the present work aimed to study the chronic effects of UVA on the retina structure of *B. regularis* during development and metamorphosis for the first time

## Keywords:

Anura UVA Histology *Bufo regularis* Retina

## Published In:

Journal of Radiation Research and Applied Sciences , xxx , 1-15