

Macro and Microscopic Changes During Regeneration and Aestivation in Echinoderms

Anna C. Márquez Santiago, Cruz Marie Vázquez Enchautegui and Dr. José E. García Arrarás University of Puerto Rico, Rio Piedras Campus

- submitted to stressful conditions.
- on their body tissues to provide the energy for the regeneration process.
- prolonged starvation by reducing their body size.
- complex process of regeneration.
- animals, after an injury or an infection (Li et al., 2018).

in the sea cucumber *H. glaberrima*.

- their own cellular components to survive.
- due to their heightened energy demands during tissue regrowth.
- the adaptation process.





length of *P. lividus* during the 42-day experimentation period. No significant changes are observed. The sudden