



Lizards As Reptilian Models To Analyze Organ Regeneration in Amniotes

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Message from the Guest Editor

Dear Colleagues,

Lizards are unique amniotes in their ability to regenerate single tissues in addition to a large organ, the tail composed of numerous integrated tissues. As the closest vertebrate to the human condition able to reform a complete and functional organ, the study on lizard regeneration allows to discover the reasons for the failure of regeneration in mammals in the future attempts to overcome this negative outcome.

The present Special issue dedicated to lizard regeneration collects a number of manuscripts derived from researchers actively involved from some years in the study of this biological model of regeneration. The issue begins with a general introductory section on reptilian regeneration, and moves to following topics including the evolution and ecological implications of autotomy, the origin of regenerative tissues, the inflammatory reaction after wounding, the differentiation of various tissues with emphasis on the new skeleton, the gene activity implicated in the process, and finally some medical perspectives derived from the information provided by this model.





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