



life



an Open Access Journal by MDPI

Regeneration: Biology and Medicine

Guest Editors:

Dr. Andrey Elchaninov

Dr. Timur Fatkhudinov

Prof. Dr. Egor Yu. Plotnikov

Deadline for manuscript
submissions:

closed (25 May 2022)

Message from the Guest Editors

Dear Colleagues,

Usually, researchers distinguish two types of regeneration: physiological and reparative. Physiological regeneration is based on proliferation, cellular polyploidy, hypertrophy, and intracellular organelle renewal. A classic example of reparative ones is limb regeneration in amphibians. Regeneration in hydra and planaria has historically been examples of classical reparative regeneration; however, it needs to be studied in other models, including mammals. Despite the greater variety of reparative regeneration forms – the participation of macrophages, cellular dedifferentiation, activation of progenitor cells in the damaged organ, all regeneration mechanisms have common features. Macrophages are key players in tissue homeostasis. In this regard, this special issue proposes to provide data on the mechanisms of regeneration of vertebrates and invertebrates. Given the importance of the topic, in addition to fundamental works, the submission of applied works on methods of stimulating regeneration using stem cells, methods of tissue and genetic engineering, and cellular technologies is encouraged.



mdpi.com/si/71681

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q2 (*Paleontology*)

Contact Us

Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)