

Special Issue

Regeneration: Biology and Medicine

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

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