



Cell Cycle Regulation of Algae

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Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Cells and cell division have fascinated biologists for more than a century, and regulation of the cell cycle has been shown to play an important role in a wide range of biological phenomena, including cancerogenesis, DNA damage response, sexual reproduction and other activities. Algae were amongst the first organisms used as cell cycle regulation models, but these studies have, so far, been limited to only a handful of species. In this regard, different species of algae have quite specific regulatory mechanisms due to a wide variety of cell reproductive patterns. These cell division patterns vary from simple binary fission, present in the majority of other organisms, to a highly specific process of multiple fission, capable of producing more than 1000 cells within a single mother cell. In this Special Issue, we seek your contributions in the form of reviews, original research articles, or shorter “perspective” articles on any aspects of the cell cycle regulation within the widely defined group of algae. We welcome studies covering already established model organisms, but also encourage articles characterizing novel or less well characterized organisms.





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