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Recent Advances in Fish Cell Research: Insights and Outcomes in Fundamental Science, Applied Aquaculture and Cell-Based Meat Production

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Deadline for manuscript
submissions:
closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

We are pleased to launch this Special Issue dedicated to highlighting recent advances and developments in fish cell research.

Cell cultures are a valuable tool to study the regulation of many physiological processes in a controlled environment, including metabolic pathways, immunity, and molecular responses to stress, and have proven helpful to answer basic scientific and translation research questions. In addition, they can also be used to screen nutrients, feed additives, bioactive compounds, or even vaccines, providing basic insights into important nutritional and physiological aspects that can be directly transferred to improve fish farming practices. Although the number of established fish cell lines remains limited, *in vitro* techniques such as isolation of embryonic stem cells (ES), induced pluripotent stem cells (iPSC), 3D cultures, or co-culture systems have gained interest in the past few years in fish research. These systems show great potential for a future where a significant share of the food proteins will come from cell-based production, often referred to as cultivated meat.



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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