

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Iban Seilliez

Dr. Esmail Lutfi

Dr. Emilio J. Vélez

Dr. Marta Bou

Deadline for manuscript submissions

closed (31 December 2023)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/154215

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)



About the Journal

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).