

## Special Issue

# Molecular Mechanisms Underlying Pancreatic Cancer Progression and Drug Resistance

### Message from the Guest Editors

Pancreatic ductal adenocarcinoma (PDAC) poses a formidable challenge in oncology due to its high mortality rate, stemming from late detection, rapid metastasis, and resistance to conventional therapies. This Special Issue aims to explore the intricate molecular pathways driving PDAC progression and treatment resistance. Our focus spans various topics, including genetic and epigenetic alterations in tumor initiation and progression, the influence of the tumor microenvironment on cancer aggressiveness, and the molecular mechanisms behind resistance to chemotherapy, immunotherapy, and emerging novel targeted therapies. This issue will also highlight cutting-edge technologies and methodologies such as single-cell sequencing, spatial transcriptomics, and 3D patient tumor avatars (3D-PTAs), which enhance our understanding of PDAC progression and therapeutic resistance. We encourage contributions of original research articles, reviews, and perspectives that illuminate these critical areas to advance our understanding and pave the way for more effective interventions to improve PDAC patient outcomes.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 October 2025)



## International Journal of Molecular Sciences

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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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