



Molecular Mechanisms Underlying Pancreatic Cancer Progression and Drug Resistance

Guest Editors:

Dr. Daoyan Wei

Department of Gastroenterology,
Hepatology, and Nutrition, The
University of Texas M.D.
Anderson Cancer Center,
Houston, TX 77030, USA

Prof. Dr. Robert S. Bresalier

Department of Gastroenterology,
Hepatology and Nutrition, The
University of Texas MD Anderson
Cancer Center, 1515 Holcombe
Blvd, Unit 1466, Houston, TX
77030, USA

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Message from the Guest Editors

Dear Colleagues,

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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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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