## **Special Issue**

# Mechanisms of Drug Resistance in Cancer Cells

## Message from the Guest Editors

Drug resistance is a significant challenge in anti-cancer treatments, driven by genetic, epigenetic, proteomic, metabolic, and microenvironmental factors. These mechanisms allow certain cancer cells to survive and proliferate under hostile conditions, reducing the effectiveness of current therapies. Existing strategies, including new drug discovery, combination therapy, and precision immunotherapy, remain insufficient in overcoming drug resistance. Understanding these mechanisms is crucial for developing advanced therapeutic options and more potent, target-based drugs. This Special Issue aims to explore and understand the molecular mechanisms of drug resistance in cancer cells and to highlight emerging therapeutic options with the potential to better address this problem. We welcome original research articles and reviews in areas such as factors contributing to drug resistance, novel approaches to overcoming resistance, the role of immunity and immune targets, mechanisms of apoptosis evasion, and the impact of microRNAs and IncRNAs on drug resistance.

#### **Guest Editors**

Dr. Xin Chen

Dr. Tuoen Liu

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## Deadline for manuscript submissions

30 June 2026



# **Biology**

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