

Special Issue

Novel Insights into the Molecular Mechanisms of Treatment Resistance and Predictive Biomarkers in Metastatic Prostate Cancer

Message from the Guest Editors

Prostate cancer (PC) is the most common malignancy in men and a major cause of cancer death. For patients with PC who experience disease relapse after local therapy or for those with metastatic disease, androgen deprivation therapy (ADT) is the backbone of systemic therapy. However, almost all metastatic patients progress to an incurable metastatic castration-resistant prostate cancer (mCRPC), defined as radiographic progression and/or a rise in prostate-specific antigen (PSA) despite having a castrate level of testosterone. Although several new options for the treatment of mCRPC have been approved in the last decade—the CYP17 inhibitor abiraterone, the androgen receptor antagonist enzalutamide, the taxane cabazitaxel, the immunotherapy sipuleucel-T, the alpha-emitter radium-223 as well as PARP inhibitors and PSMA radioligands—unfortunately, not all patients initially respond to these therapies, while nearly all of them develop resistance. Thus, understanding the molecular and clinical mechanisms leading to therapy resistance and determine new predictive biomarkers is crucial.

Guest Editors

Dr. Albert Font

Badalona-Badalona Applied Research Group in Oncology (B-ARGO),
Catalan Institute of Oncology, 08916 Badalona, Spain

Dr. Vicenç Ruiz de Porras

ICO-Badalona Applied Research Group in Oncology (B-ARGO)—
Germans Trias i Pujol Research Institute (IGTP), 08916 Badalona, Spain

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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

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Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

Prof. Dr. Samuel C. Mok

Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

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