

Special Issue

Advances in Molecular Research on Prostate Cancer

Message from the Guest Editors

Prostate cancer (PC) is the second most diagnosed cancer in men. Nowadays, early detection of PC is mainly carried out testing prostate-specific antigen (PSA) level in blood. Regrettably, PSA cannot discriminate patients with benign prostatic hyperplasia (BPH) and clinically significant forms of PC. Metabolomics represents a valuable tool to discover new disease-associated markers. To date, two different metabolomics approaches have been commonly carried out, namely targeted and untargeted, on prostate tissue and bio-fluids. In prostatic cancer, metabolomics-based studies have shown many evidences that polar compounds possess a high potential of use as. Additional molecular biomarkers have been identified by the use of genomics and proteomics. The analysis of possible biomarkers not free but enclosed in extracellular nanovesicles such as exosomes released in the same bio-fluids seems to increase their specificity and accuracy. In particular the analysis in serum or urine of exosomal PSA seems to increase the specificity of this marker.

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