

Special Issue

Energy Metabolisms in Cancer

Message from the Guest Editors

In the complex and heterogeneous tumor ecosystem, cancer cells must acquire a flexible and variable metabolism to face and survive many stress conditions. Therefore, tumor cells must reprogram their metabolism at many levels, and mitochondria plays a pivotal role, becoming essential to driving disease progression. It is generally accepted that many cancer cells change their metabolism, increasing cytosolic glycolysis, even in the presence of normal oxygen availability, but more recent studies propose that this may occur in cells at certain stages, and it has also been clearly demonstrated that mitochondrial and oxidative metabolisms are relevant to growth and metastasis. Therefore, investigations of whether bioenergetic pathways are associated with mitochondria in cancer cells and their modulation is promoted by stressful conditions and/or microenvironment changes will be welcome. Any studies that report endogenous molecules and exogenous molecules that capable of interfering with pathways or single reactions in tumor cells and could help to unveil tumor biology and/or chemo- or radio-therapy are welcome.

Guest Editors

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