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Tumor Secretome in Translational Oncology

Guest Editor:

Dr. Mario Cioce
Laboratory of Molecular Medicine and Biotechnology, Department of Medicine, University Campus Bio-Medico of Rome, 00128 Rome, Italy

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Message from the Guest Editor

Tumor adaptation to stress impinges on resistance to therapy. Therapy-instigated secretome rearrangement instructs the tumor microenvironment adaptive response, possibly through altered cell subpopulation dynamics. The reshaping of secretome in therapy-resistant tumors is documented in many experimental settings (mesothelioma, NSCLC, melanoma, TNBC) and in some cases was shown to involve therapy-induced senescence, according to an SASP model. Cell autonomous and non-cell autonomous mechanisms cooperate to establish such a detrimental network, with a two-way communication among tumor and stroma. Secreted molecules may be pro-inflammatory cytokines, metabolites, or nucleic acids, in an ever growing list. Here, we consider how the tumor secretome influences response to therapy (including immunotherapy) and, mechanistically, how the effector molecules signal to the TME. We will consider TKIs, lipid signalling inhibitors, metabolic modulators, and senolytic drugs potentially interfering with the described processes and, therefore, of potential translational relevance in oncology.

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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 Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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