



Circulating Tumor Cells: Pathological, Molecular and Functional Characteristics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Analysis of the circulating tumor cells (CTCs) as a surrogate for the metastatic lesion is non-invasive and allows for detailed characterization of the phenotype, genotype, heterogeneity, expression profiling and functional analysis of tumor cells. This open-access Special Issue will bring together original research and review articles on CTCs, their biology, methods of enumeration and characterization, their role in metastasis and their predictive value for diagnostics and therapeutic applications.

Topics of this Special Issue include, but are not limited to

- Diagnostic and therapeutic applications of CTC research;
- The biology of CTCs in different cancer types;
- CTC mobilization by treatment;
- Phenotypic/genotypic heterogeneity of CTCs;
- Technical developments in the isolation, enumeration and characterization of CTCs;
- Functional analysis of CTCs, including culture and CDX;
- CTC analysis in single cell resolution;
- Cell free DNA vs. CTC;
- Epithelial/hybrid/mesenchymal properties of CTCs;
- CTC clusters: biology, enumeration, role in metastasis.



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Dr. Ewa A. Grzybowska
Guest Editor

Special Issue



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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