



Circulating Tumor Cells: Pathological, Molecular and Functional Characteristics

Guest Editor:

Dr. Ewa A. Grzybowska

Cancer Center Institute,
Roentgena 5, 02-781 Warsaw,
Poland

Deadline for manuscript
submissions:

closed (29 February 2020)

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.



mdpi.com/si/30182

Dr. Ewa A. Grzybowska
Guest Editor

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI