

## Special Issue

# Stem Cells and Irradiation

### Message from the Guest Editor

The main difficulty of radiotherapy is to destroy cancer cells without depletion of healthy tissue. Stem cells and cancers are tightly interrelated. On one hand, radiosensitivity/radioresistance of cancer stem cells affects the radiocurability of tumors. On the other hand, radiosensitivity is responsible for the stem cell depletion of organs at risk exposed to irradiation. Efficient solide cancer destruction is limited by the preservation of organ homeostasis. For this reason, targeted irradiation is an effective cancer therapy, but damage inflicted to normal tissues surrounding the tumor may cause severe complications. The consequences of stem cell depletion of healthy tissue irradiated are acute and chronic radiation diseases. Research on the radiosensitivity of cancer stem cells and adult stem cells associated with tissue regeneration medicine will bring forth the solution for optimal radiocurability associated with long-term patients' quality of life.

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### Guest Editor

Dr. Alain Chapel

1. IRSN PSE Sante SERAMED, Radiobiology of Medical Exposure Laboratory (LRMed), 92262 Fontenay, France
2. UPMC Univ Paris 06, UMR\_S938 CDR Saint-Antoine, Stem Cell Proliferation and Differentiation, F-75012 Paris, France

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### Deadline for manuscript submissions

closed (30 November 2020)



## Cells

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*Cells*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cells@mdpi.com](mailto:cells@mdpi.com)

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*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE,  
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,  
Copenhagen, Denmark

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