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## DNA Damage and Radiotherapy

Guest Editor:

### Dr. Fanghua Li

Department of Particle Therapy,  
University Hospital Essen, West  
German Proton Therapy Centre  
Essen (WPE), West German  
Cancer Center (WTZ), German  
Cancer Consortium (DKTK),  
45147 Essen, Germany

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### Message from the Guest Editor

Radiotherapy (RT) is one of the most common and effective treatment strategies for cancer, which is effective for not only localized but also metastasis tumors. During RT, exposure of cells to ionizing radiation (IR) induces DNA double-strand breaks (DSBs), which are a major cause for lethal damage to the DNA of cancer cells, as well as being responsible for the induction of side effects. The risks posed by DSBs to the genome of higher eukaryotes are mitigated by a network of signaling pathways collectively termed the DNA damage response (DDR). DDR detects DSBs and coordinates a wide spectrum of cellular responses, including checkpoint activation and DSB repair. DDR signaling factors targeting to develop strategies for the better targeting of tumors, while the protection of normal tissues has become a subject of intensive research, such as the utilization and characterization of new radiation modality, the development and investigation of novel inhibitors of individual DSB repair pathways, etc. We, therefore, invite authors to submit original and review articles on these topics.

- radiotherapy
- normal tissue protection
- DNA damage response (DDR)
- radiation modality



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### Prof. Dr. Felipe Fregni

1. Neuromodulation Center and  
Center for Clinical Research  
Learning, Spaulding  
Rehabilitation Hospital and  
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Harvard Medical School, Boston,  
MA 02114, USA  
2. Department of Epidemiology,  
Harvard T.H. Chan School of  
Public Health, Boston, MA 02115,  
USA

## Message from the Editor-in-Chief

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*Biomedicines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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