Special Issue

Advances and Challenges in Biomolecular Radiation Research

Message from the Guest Editor

Research focused on understanding the complex response of cells to radiation-induced damage processes of functional molecules requires a multidisciplinary approach. In recent decades, studies of genetic and epigenetic effects in response to radiation exposure have significantly contributed, for instance to better understand the machinery of DNA repair. complex protein interaction pathways and immunereactions. Nevertheless, understanding mechanisms behind (individual) radio-sensitivity and resistance is still a challenge for radiation research to progress, for instance in the areas of radiation protection and medical radiation treatment. This special issue will focus on experimental and theoretical advances in molecular sciences, and on technological challenges and solutions in modern biological radiation research as well as biomolecular approaches towards (individualized) medical diagnosis and treatment. As, I would like to invite scientists working in biomolecular radiation research to submit their recent results to this special issue in order to demonstrate the breadth and vitality of this field.

Guest Editor

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Message from the Editor-in-Chief

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