



## Advances and Challenges in Biomolecular Radiation Research

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### Message from the Guest Editor

Dear Colleagues,

Research focused on understanding the complex response of cells to radiation-induced damage processes of functional molecules requires a multi-disciplinary 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 immune-reactions. 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 Guest Editor, 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.

Prof. Dr. Michael Hausmann



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## Message from the Editor-in-Chief

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