

## Special Issue

# Physics and Chemistry of Radiation Damage to DNA and Its Consequences

### Message from the Guest Editor

Experimental evidence indicates that damage to DNA molecules is the most important cause of cell death, mutation and transformations induced by ionizing radiation. Keeping this in mind, during the ACS CERM 2022 meeting (EMU, Ypsilanti), Prof. Amitava Adhikary (Chemistry Department, Oakland University) is organizing a symposium entitled "Physics and Chemistry of Radiation Damage to DNA and its consequences (oral)" on 7th June. This symposium presents the current knowledge on this topic, starting from physical, physicochemical, and biochemical events involved in radiation-mediated DNA and RNA damage formation, and its biochemical processing, including the role of cerium oxide nanoparticles as effective radiomodifiers. A Special Issue of the journal *DNA* (MDPI) will emerge from this symposium.

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### Guest Editor

Prof. Dr. Amitava Adhikary  
Department of Chemistry, Oakland University, Rochester Hills, MI, USA

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### Deadline for manuscript submissions

31 December 2024



## DNA

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

Prof. Dr. Darren Griffin  
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