



Nanoparticles in Medical Radiations

Guest Editor:

Dr. Moshi Geso

Discipline of Medical Radiations,
School of Health and Biomedical
Sciences, RMIT University,
Bundoora, VIC 3083, Australia

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Message from the Guest Editor

Over the last 25 years, the use of nanoparticles in medical radiation techniques has grown significantly. Gold nanoparticles have been successfully used as imaging contrasting agents to improve image quality. Additionally, they have most significantly been used as radiation dose enhancers or “radiosensitisers”, capable of increasing the dose deposited by a clinical radiotherapy beam to a cancerous tumour when present, hence increasing the radiotherapy beam’s “killing potential”. Synergistically, these two properties make gold nanoparticles potential theranostic agents able to image and provide therapeutic benefit to cancer treatments.

Understanding the properties of both nanoparticles and the cellular target (molecularly and biologically) is crucial in the advancement of the current applications of nanoparticles and radiation in modern medicine. Therefore, this issue will consider for publication any work involving nanomaterials (either organic or metallic) in medical radiation, including studies of image quality, radiotherapy and radiobiology, in the hopes of highlighting the ongoing efforts in this field.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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