Special Issue

Advances in Targeted At-211 Alpha Therapy

Message from the Guest Editors

Astatine-211 (211At), an alpha-emitting radionuclide, has emerged as a promising isotope for targeted radiotherapy, offering potent and localized cytotoxicity against disseminated cancers. This Special Issue will showcase advances spanning the entire field of 211At research—from targetry, chemistry (separation and radiolabeling), and automation to innovative labeling strategies. In addition, the development and evaluation of astatinated biomolecules (small molecule, peptide, or antibody), and studies elucidating biological mechanisms of action, dosimetry, and other research.In this Special Issue of Biomolecules, we invite original research articles, comprehensive reviews, and perspective papers focusing on innovations in 211At chemistry, biology, and radiopharmaceutical applications. By gathering recent insights and technological breakthroughs, this collection aims to accelerate progress toward the safe, reliable, and widespread use of 211At in targeted alpha therapy.

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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