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Advanced Applications of Technetium Chemistry

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Message from the Guest Editor

The first ever discovered artificial element, technetium, has played a pivotal role in promoting the growth and remarkable success of nuclear diagnostic imaging in the past decades. It is easy to recognize that the most important reason for this long-lasting success of technetium-99m radiopharmaceuticals resides in the richness of the chemistry of this transition element. Only the existence of a multitude of stable chemical motifs and structural arrangements for technetium complexes has allowed investigation of the biological and diagnostic properties of a large spectrum of coordination compounds and eventually the discovery of useful imaging agents.

Today, we are at the verge of a new era for technetium-99m radiopharmaceuticals after many years of obscurity. It seems worthy to review the status of technetium chemistry and to summarize the most remarkable results that have been unearthed during the last years. The aim of this Special Issue is to collect a number of contributions that can illustrate the still-flourishing field of technetium coordination chemistry and its applications to diagnostic medicine.

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Message from the Editor-in-Chief

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