



Facettes of Bioorganometallic Technetium and Rhenium Chemistry in Imaging and Therapy

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Technetium is a man made element. Its radionuclide ^{99m}Tc is the working horse of routine nuclear medicine for the diagnosis of various diseases. The conjugation of biologically stable complexes to receptor binding biomolecules represents the core for preparing novel radiopharmaceuticals for molecular imaging. The field is dominated by coordination compounds but, recently, organometallic complexes entered life sciences as well. In bioorganometallic Tc chemistry, metal containing imaging agents have to be rapidly synthesized in water and in quantitative yield thereby requiring uncommon procedures.

After an introduction into the state of the art and the perspectives of medicinal inorganic and bioorganometallic chemistry in general, non-classical approaches to classical organometallic complexes and their conjugation to various life-essential biomolecules such as peptides, vitamin B12, amino acids a.o. will be presented. Their perspectives for diagnostic or therapeutic medicine with respect to other methods will be critically discussed.

Conférence présentée le :

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Auditoire P.F. Tingry (A150)

30, quai Ernest-Ansermet, Genève

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