



Fluorine and Health: Molecular Imaging, Biomedical Materials and Pharmaceuticals (Hardback)

By-

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2008. Hardback. Book Condition: New. New.. 236 x 170 mm. Language: English . Brand New Book. Fluorine and Health presents a critical multidisciplinary overview on the contribution of fluorinated compounds to resolve the important global issue of medicinal monitoring and health care. The involved subjects are organized in three thematic parts devoted to Molecular Imaging, Biomedical Materials and Pharmaceuticals. Initially the key-position of partially fluorinated low molecular weight compounds labeled either with the natural 19F-isotope for Magnetic Resonance Imaging (MRI) or labeled with the radioactive [18F]-isotope for Positron Emission Tomography (PET) is highlighted. Both non-invasive methods belong to the most challenging in vivo imaging techniques in oncology, neurology and in cardiology for the diagnosis of diseases having the highest mortality in the industrialized countries. The manifold facets of fluorinated biomaterials range from inorganic ceramics to perfluorinated organic molecules. Liquid perfluorocarbons are suitable for oxygen transport and as potential respiratory gas carriers, while fluorinated polymers are connected to the pathology of blood vessels. Another important issue concerns the application of highly fluorinated liquids in ophthalmology. Moreover, fluorine is an essential trace element in bone mineral, dentine and tooth enamel and is applied for the prophylaxis and treatment...

Reviews

This publication is very gripping and interesting. It can be loaded with knowledge and wisdom I am just quickly will get a enjoyment of studying a composed pdf.

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