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Nanoplatfrom-Based Molecular Imaging | Nanomaterials ...

A peptide is any combination of amino acids linked by peptide bonds. Generally, peptides considered as imaging ligands have a low molecular weight, containing several to fewer than 50 amino acids. These small receptor-binding peptides have a number of distinct advantages over proteins and antibodies.

Polyphenol-based nanoplatfrom for MRI/PET dual-modality ...

Nanoplatfrom-Based Molecular Imaging Focuses on the rational design of water-soluble, biocompatible nanoparticles for the visualization of cellular function Addresses how this type of imaging can be used as an effective tool for diagnosing cancer, cardiac diseases, and neurodegeneration

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In this review we will focus on the different aspects of cardiovascular nanoimaging; multimodal nanoparticles, applications to cardiovascular disease and translational aspects for the main molecular imaging techniques, from traditional Magnetic Resonance Imaging and Positron Emission Tomography to new fields like Magnetic Particle Imaging.

MRI Contrast Agents Based on Inorganic Nanoparticles ...

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Nanoplatfrom-based molecular imaging (Book, 2011 ...

Molecular Imaging Program at Stanford and Bio-X Program, Department of Radiology, Stanford University School of Medicine, Stanford, California, USA. Laboratory for Molecular Imaging and Nanomedicine, National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, Maryland, USA

(PDF) Nanoplatfrom-based cardiovascular molecular imaging

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Despite the significant progress in the field of receptor-binding peptides, the application of suitably radiolabeled peptide for targeted molecular imaging is still in the developmental stage (Table 1). The next sections describe different design strategies for the design of optical probes and nanoparticle probes.

Polyphenol-based nanoplatfrom for MRI/PET dual-modality ...

Author information: (1)Department of Cardiology, Chinese PLA General Hospital, Beijing 100853, China and Laboratory of Molecular Imaging and Nanomedicine (LOMIN), National Institute of Biomedical Imaging and Bioengineering ... The polyphenol-based nanoplatfrom may serve as a promising theranostic candidate for clinical application.

Wiley: Nanoplatfrom-Based Molecular Imaging - Xiaoyuan Chen

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Peptide-based Probes for Targeted Molecular Imaging

Polyphenol-based nanoplatfrom for MRI/PET dual-modality imaging guided effective combination chemotherapy† Jingjing Wang , ‡ ab Wei Sang , ‡ cd Zhen Yang , b Zheyu Shen , b Zhantong Wang , b Orit Jacobson , b Yundai Chen , a Yong Wang , e Mingyan Shao , e Gang Niu , b Yunlu Dai * cd and Xiaoyuan Chen * b

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