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Special Issue Reprint

Recent Progress in Bioimaging and Targeted Therapy

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Bioimaging is used to visualize biomolecules and their biological activity in a specific period of time. It does not influence the life processes during visualization, but can help in understanding biological activities at molecular levels and connecting the observation of subcellular structures with multicellular tissues and organs. Targeted bioimaging contributes to current therapies by providing evidence for disease diagnosis; locating and guiding surgical operation; indicating the time and position to perform treatments; and evaluating therapeutic effects. The topics of this reprint may include the following themes:

- Developing novel in vivo strategies for targeted MRI, PET, CT, fluorescence, Raman imaging, etc.
- Developing specific biosensing techniques for disease biomarkers, including small molecules, nucleic acids, macromolecules, circulating cancer cells, cancer cells, tumor organs, etc.
- Designing and fabricating targeted imaging probes including, but not limited to, organic molecules; inorganic nanomaterials such as rare earth materials, silica nanoparticles, and quantum dots; conducting polymers; and DNA self-assembly materials.
- Developing strategies to enhance imaging S/N ratio, resolution, specificity, efficiency.



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