

MULTIFUNCTIONAL HETEROMETALLIC Ir^{III}-Au^I PROBES AS PROMISING ANTICANCER AND ANTIANGIOGENIC AGENTS

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Medicinal inorganic chemistry has attracted great attention in the recent years due to the development of novel metallodrugs derived from gold, platinum and ruthenium species among others.^{1,2} Within this context, a growing interest is devoted to the design of heterometallic complexes with applications in cell visualization and cancer therapy.³ A synergic effect is feasible to take place when both, a bioactive and an emissive metallic fragment are combined and thus, delivering novel trackable metallodrugs.⁴

This work describes the development of a new variety of luminescent and cytotoxic heterometallic complexes based on the combination of both, Ir^{III} and Au^I fragments, **Figure 1**. Their emissive properties, cytotoxic activity, cell distribution, as well as their antiangiogenic ability have been thoroughly investigated. Subsequent modification on the gold ancillary ligand allows modulation of the bioactivity and biodistribution of the final bioprobe.

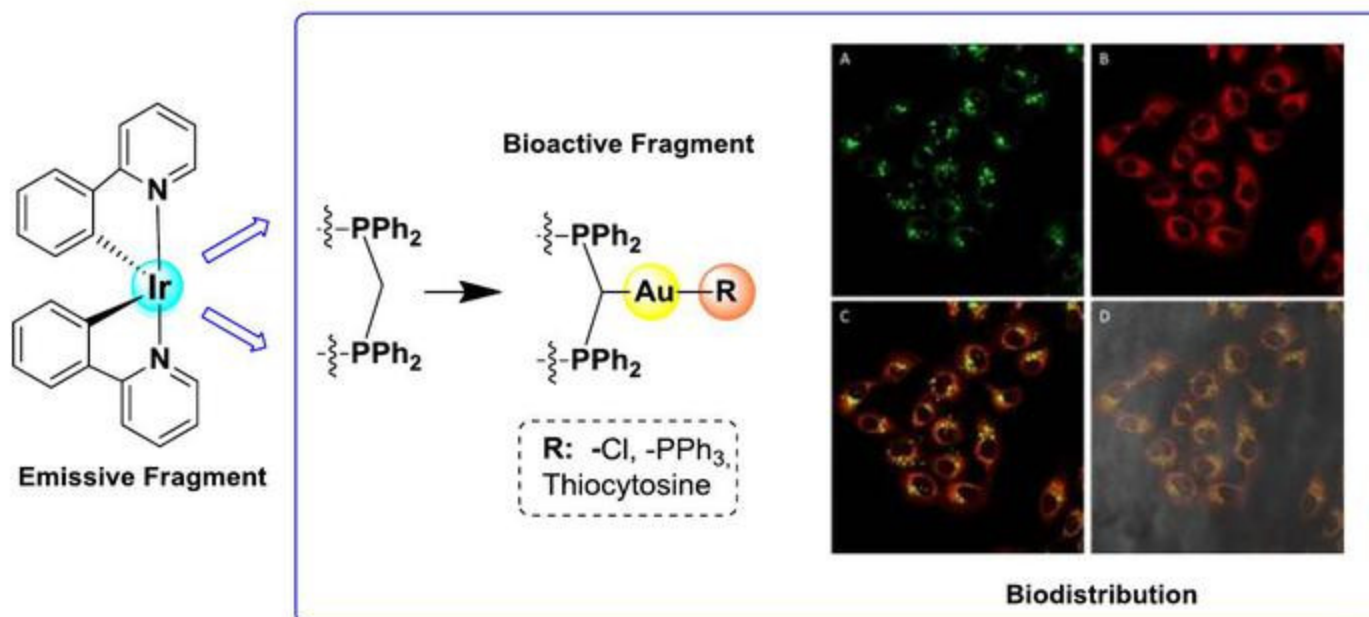


Figure 1.

Referencias

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