Supporting Information

Multisignaling Detection of Hg²⁺ Based on a Phosphorescent Iridium(III) Complex

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Figure S1. Response of UV-Vis absorption spectra of $Ir(thq)_2(acac)$ (20 μ M) in CH₃CN solution to various amounts of metal ions.





Figure S2. Response of fluorescence spectra of $Ir(thq)_2(acac)$ (20 µM) in CH₃CN solution to various amounts of metal ions. $\lambda_{ex} = 375$ nm.



Figure S3. Reduction potentials of $Ir(thq)_2(acac)$ before and after addition of 1 eq. Hg^{2+} .

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	НОМО	LUMO		
Ir(btp) ₂ (acac)-Hg ²⁺				
Ir(thq) ₂ (acac)-Hg ²⁺				

Table Soni Calculate the Information of Paland Snatchins. This journal is © The Royal Society of Chemistry 2008

	$Ir(btp)_2(acac)$	$Ir(thq)_2(acac)$	$Ir(btp)_2(acac)-Hg^{2+}$	$Ir(thq)_2(acac)-Hg^{2+}$
S	0.3953	0.4122	0.6080	0.5634
	0.3947	0.4165	0.5940	0.5736
Hg			0.1587	0.2079