

Supplementary Information

Photochemical and Electrochemical Study of the Release of Nitric Oxide from $[\text{Ru}(\text{bpy})_2\text{L}(\text{NO})](\text{PF}_6)_n$ Complexes (L = Imidazole, 1-Methylimidazole, Sulfite and Thiourea), Toward the Development of Therapeutic Photodynamic Agents

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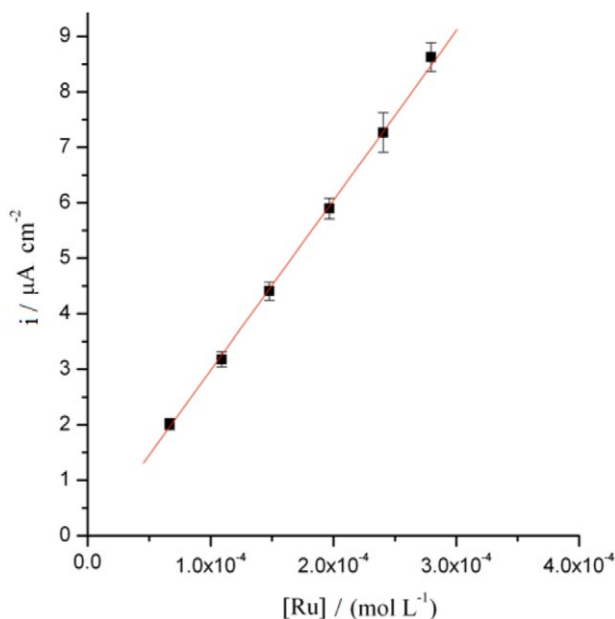


Figure S1. Analytical curve from square wave voltammetry for $[\text{Ru}(\text{bpy})_2\text{L}(\text{NO})]^{n+}$, for quantification the amount of photochemical NO released, for the nitrosyl complexes, where L = sulfite.

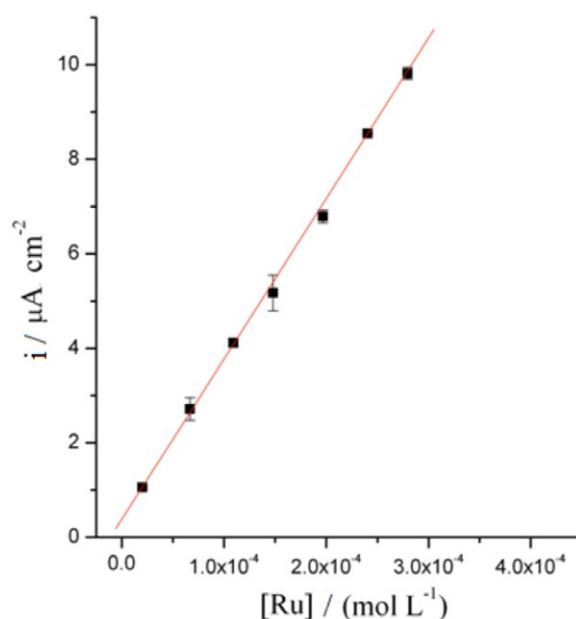


Figure S2. Analytical curve from square wave voltammetry for $[\text{Ru}(\text{bpy})_2\text{L}(\text{NO})]^{n+}$, for quantification the amount of photochemical NO released, for the nitrosyl complexes where L = thiourea.

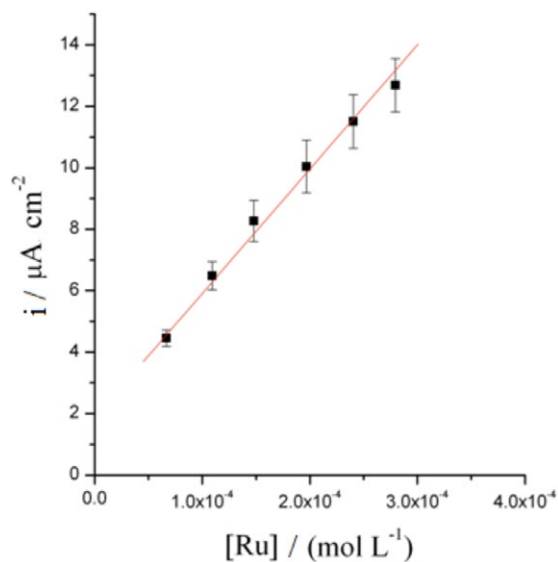


Figure S3. Analytical curve from square wave voltammetry for $[\text{Ru}(\text{bpy})_2\text{L}(\text{NO})]^{n+}$, for quantification the amount of photochemical NO released where L = methylimidazole.

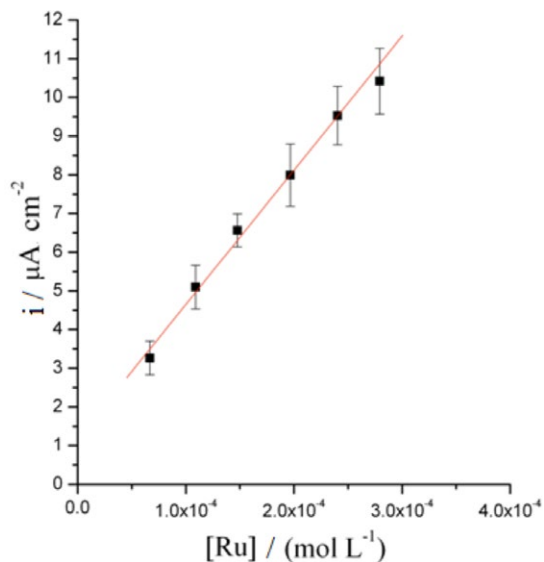


Figure S4. Analytical curve from square wave voltammetry for $[\text{Ru}(\text{bpy})_2\text{L}(\text{NO})]^{n+}$, for quantification the amount of photochemical NO released where L = imidazole.

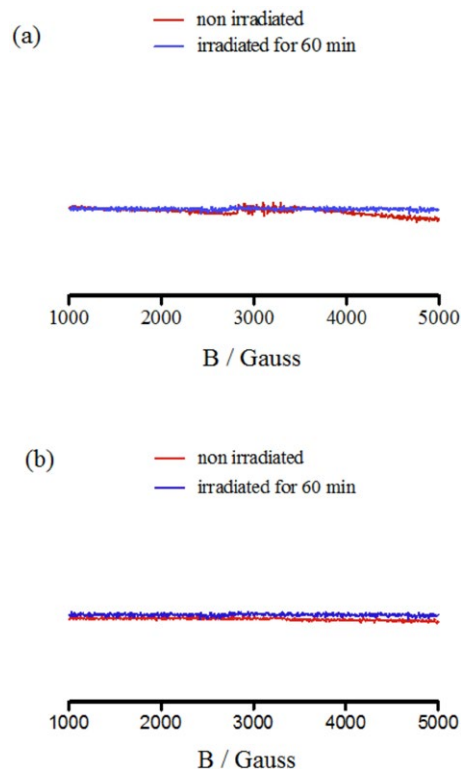


Figure S5. The ESR spectrum of a frozen solution of $[\text{Ru}(\text{bpy})_2\text{LNO}]\text{PF}_6$, and after photolysed for 60 min at 350 nm (with a laser). Microwave power 100 mW, 77 K; pH 6.0; $[\text{Ru}] = 1.0 \times 10^{-3} \text{ mol L}^{-1}$. L is SO_3^{2-} in (a) and L is imidazole in (b).

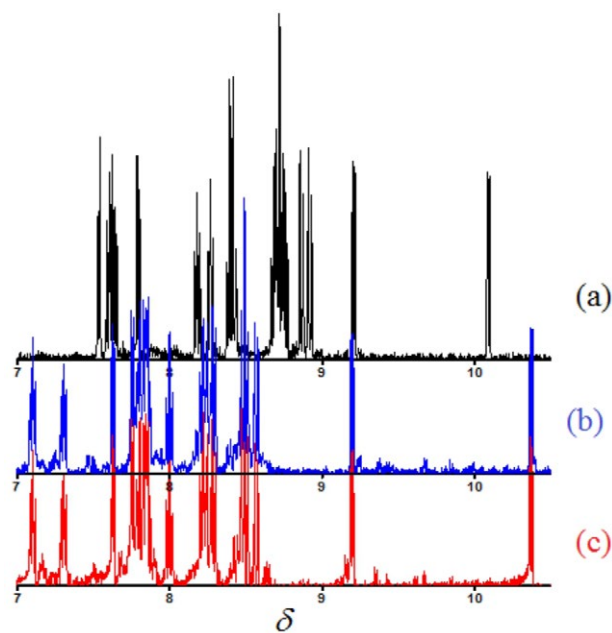


Figure S6. ^1H NMR of $[\text{Ru}(\text{bpy})_2(\text{SO}_3)\text{NO}]^+$ in dark (a), $[\text{Ru}(\text{bpy})_2(\text{SO}_3)(\text{H}_2\text{O})]^{2+}$ fresh prepared in dark in (b) and $[\text{Ru}(\text{bpy})_2(\text{SO}_3)\text{NO}]^+$ after irradiated at 350 nm in (c). All solutions were prepared in phosphate buffer, pH 7.4, using D_2O as solvent.



Figure S7. Homemade photochemical equipment.