

Electronic Supplementary Information

Luminescent Re(I) and Re(I)/Au(I) complexes as cooperative partners in cell imaging and cancer therapy

Vanesa Fernández-Moreira,* Isabel Marzo, M. Concepción Gimeno*

- Figure S1.** Hydrogen bonds between the solvent molecule with molecule Re(1) in complex **5** **pag. 2**
- Figure S2.** Secondary interaction and hydrogen bonds between the counter ion and solvent molecule with molecule Re(2) in complex **5** **pag. 2**
- Figure S3.** Hydrogen bond of complex **8**. **pag. 3**
- Figure S4.** Absorption, emission and excitation spectra. **pag. 4**
- Figure S5.** Representation of toxicity values of complexes **1-8** obtained by annexin-V analysis. **pag. 5**
- Figure S6.** Analysis of the cell morphology (A-549 cells) after incubation of complexes **1-8** at different concentrations. **pag. 6**

Complex 5: Molecule-Re1

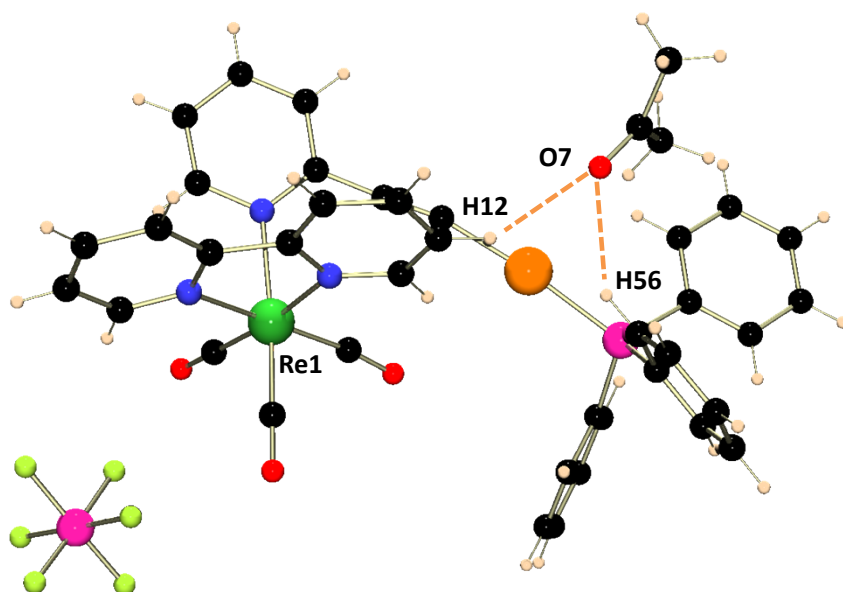


Figure S1. Hydrogen bonds between the solvent molecule with molecule Re(1) in complex 5. $O(7)\cdots H(12) = 2.487(4) \text{ \AA}$, $C(12)H(12)O(7) = 144.79^\circ$, $O(7)\cdots H(56) = 2.641(4) \text{ \AA}$, $C(56)H(56)O(7) = 133.59^\circ$

Complex 5: Molecule-Re2

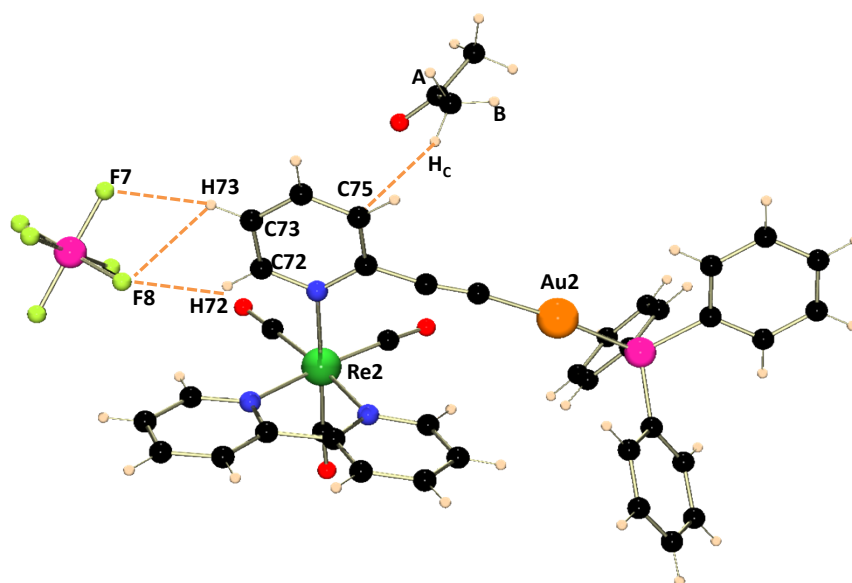


Figure S2. Secondary interaction and hydrogen bonds between the counter ion and solvent molecule with molecule Re(2) in complex 5. $H(11C)\cdots C(75) = 2.487(4) \text{ \AA}$, $F(7)\cdots H(73) = 2.596 \text{ \AA}$, $F(7)H(73)C(73) = 145.79^\circ$, $F(8)\cdots H(73) = 2.613 \text{ \AA}$, $F(8)H(73)C(73) = 115.35^\circ$, $F(8)\cdots H(72) = 2.525 \text{ \AA}$, $F(8)H(72)C(72) = 120.26^\circ$

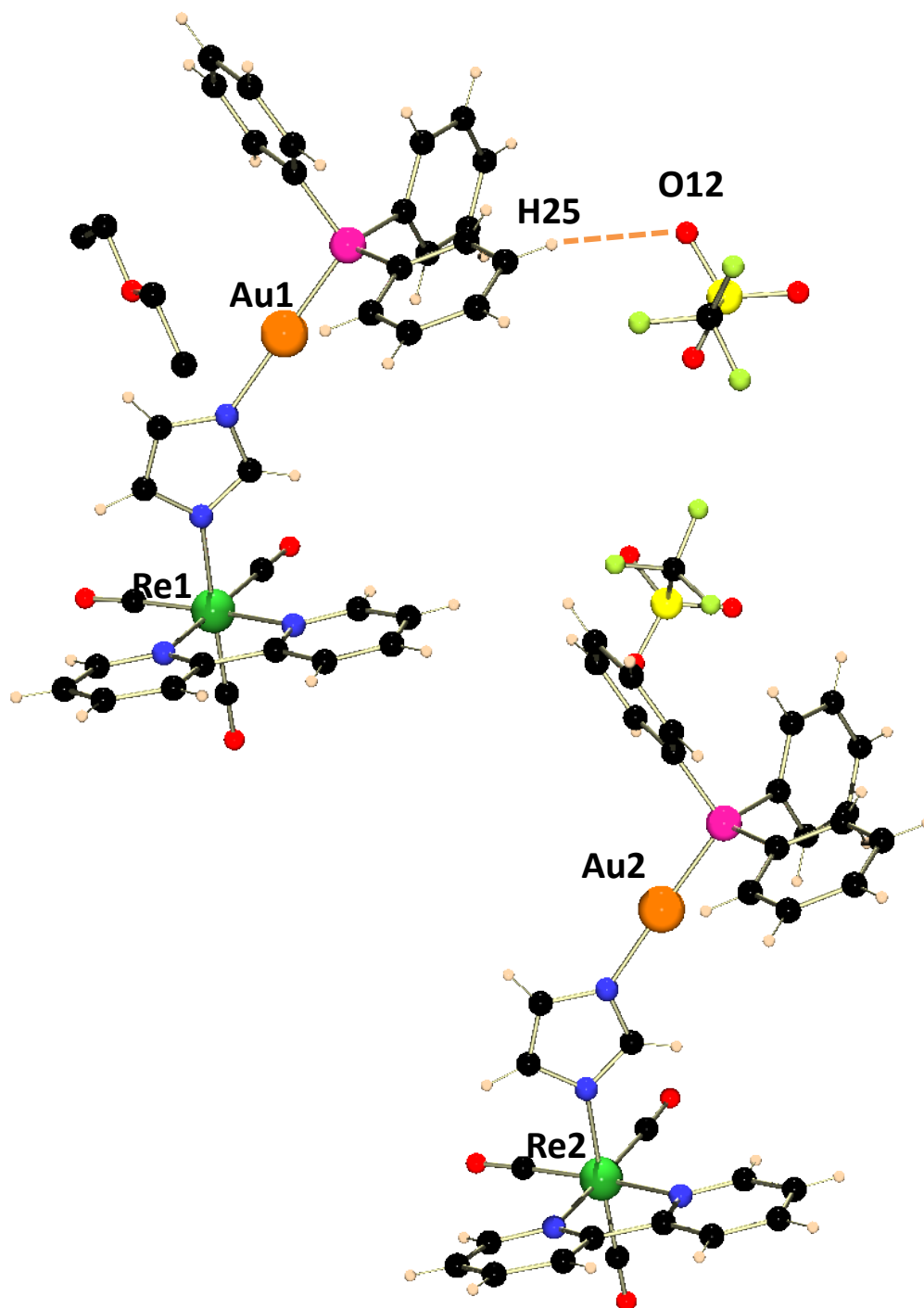


Figure S3. Hydrogen bond of complex 8. $O(12)\cdots H(25) = 2.668 \text{ \AA}$, $O(12)H(25)C(25) = 161.78^\circ$.

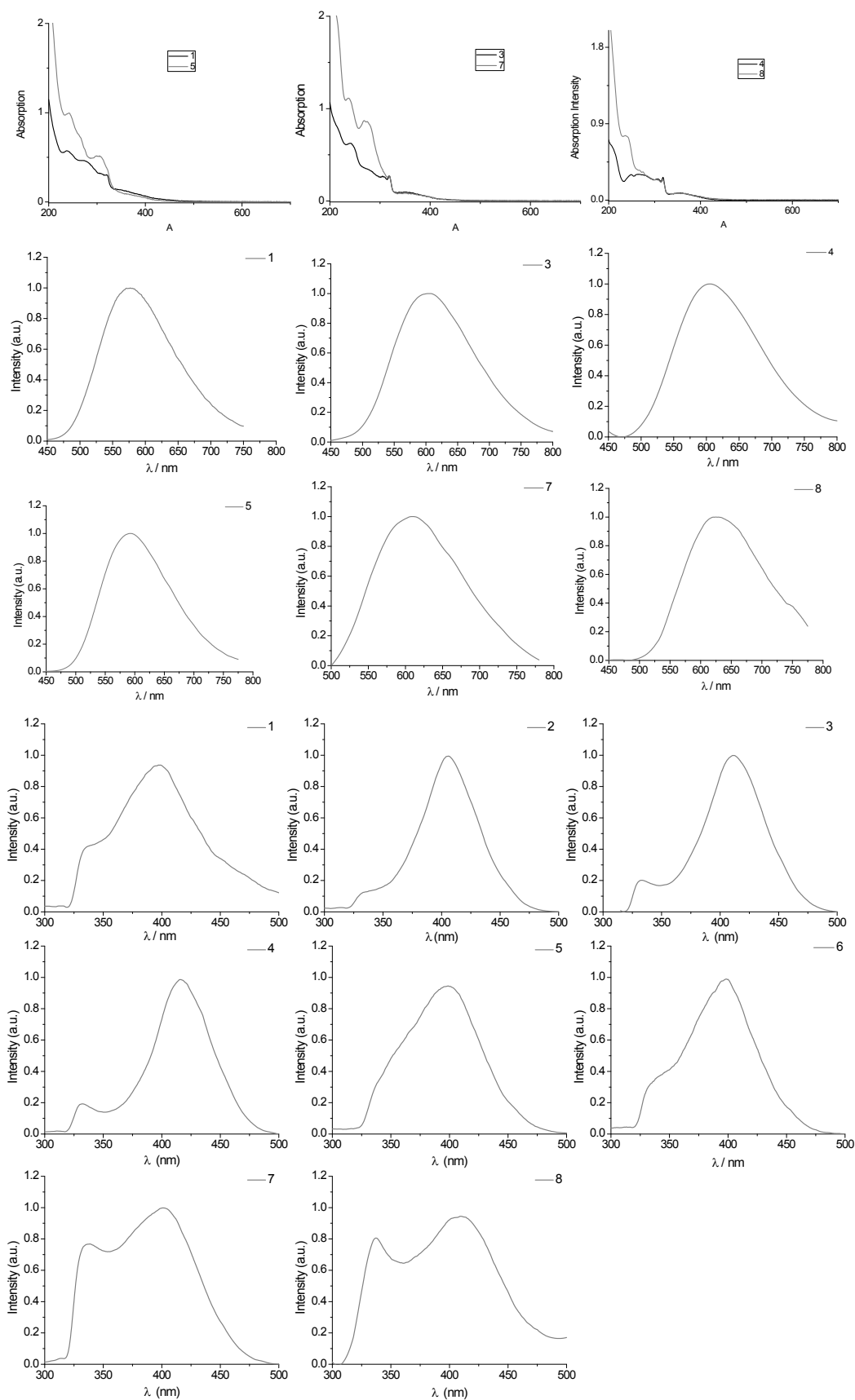


Figure S4. Absorption, emission and excitation spectra.

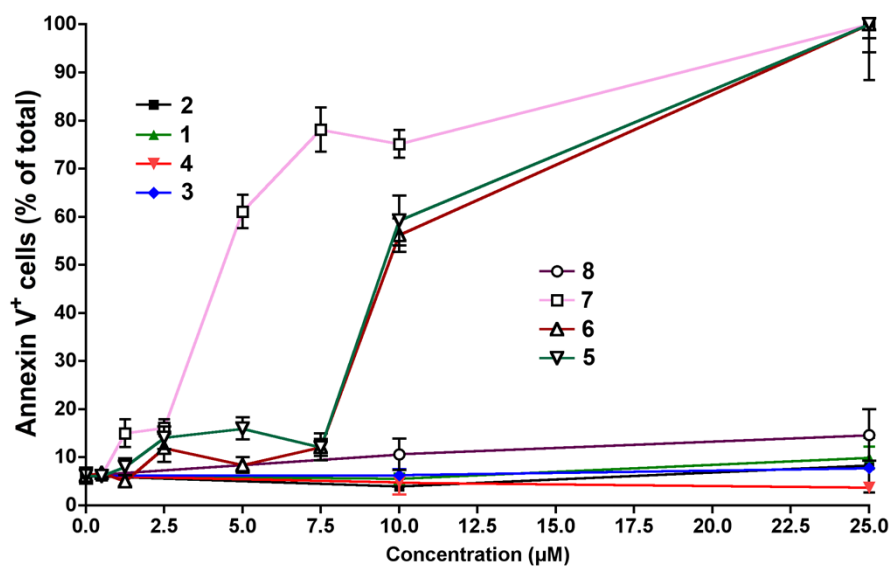


Figure S5. Representation of toxicity values of complexes 1-8 obtained by annexin-V analysis.

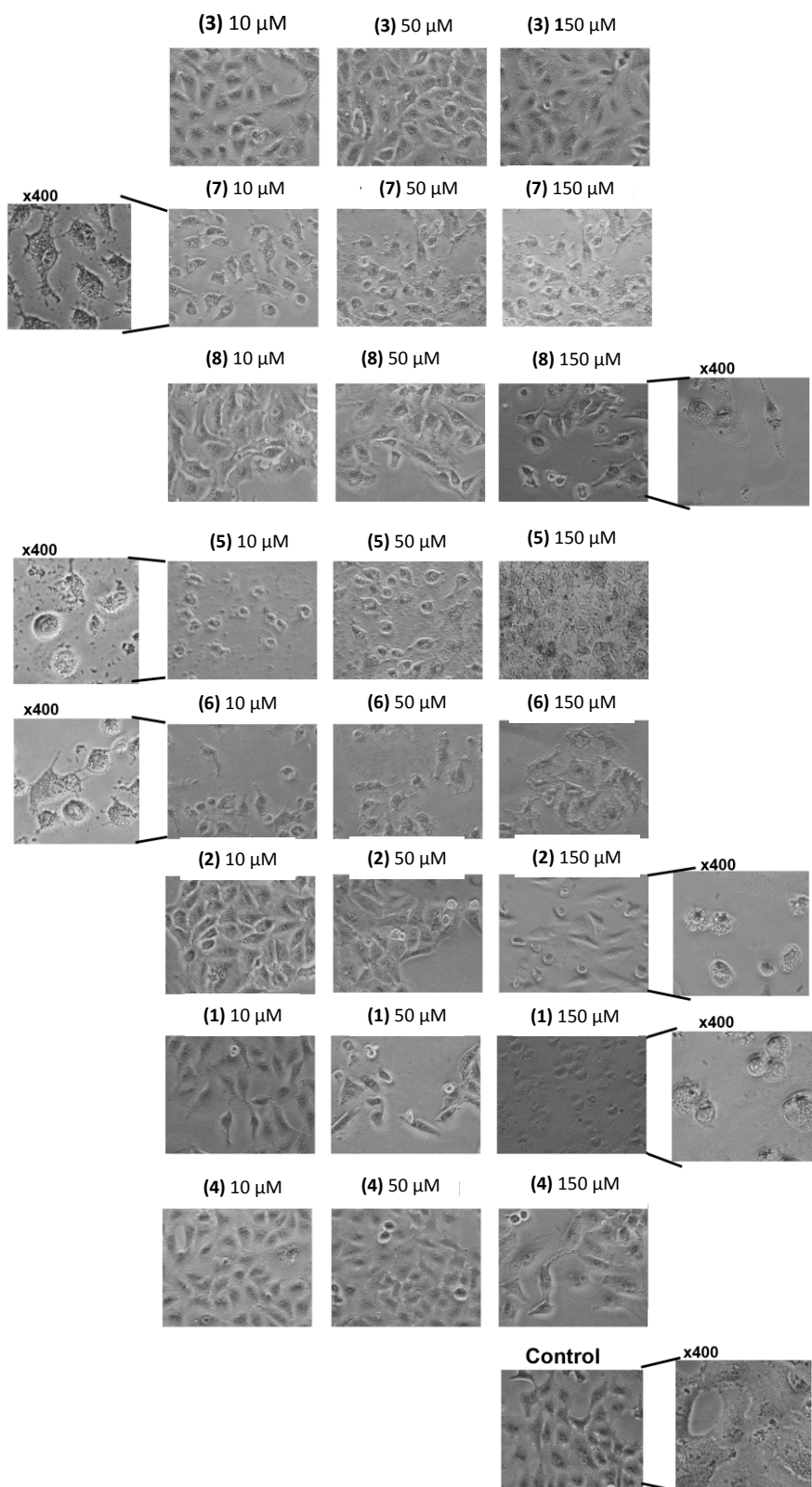


Figure S6. Analysis of the cell morphology (A-549 cells) after incubation of complexes **1-8** at different concentrations.