

Interaction of Aromatic Aminoacids with Metal Complexes of Tetrakis-(4-sulfonatophenyl)porphyrin

Roberto Zagami,¹ Maria Angela Castriciano,¹ Mariachiara Trapani,² Andrea Romeo,^{1,2} and Luigi Monsù Scolaro^{*1,2}

¹ Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, V.le F. Stagno D'Alcontres, 31 - 98166 Messina, Italy; rzagami@unime.it (R.Z.); maria.castriciano@unime.it (M.C.); anromeo@unime.it (A.R.); lmonsu@unime.it (L.M.S.)

² CNR - ISMN Istituto per lo Studio dei Materiali Nanostrutturati c/o Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, V.le F. Stagno D'Alcontres, 31 - 98166 Messina, Italy; mariachiara.trapani@cnr.it (M. T.)

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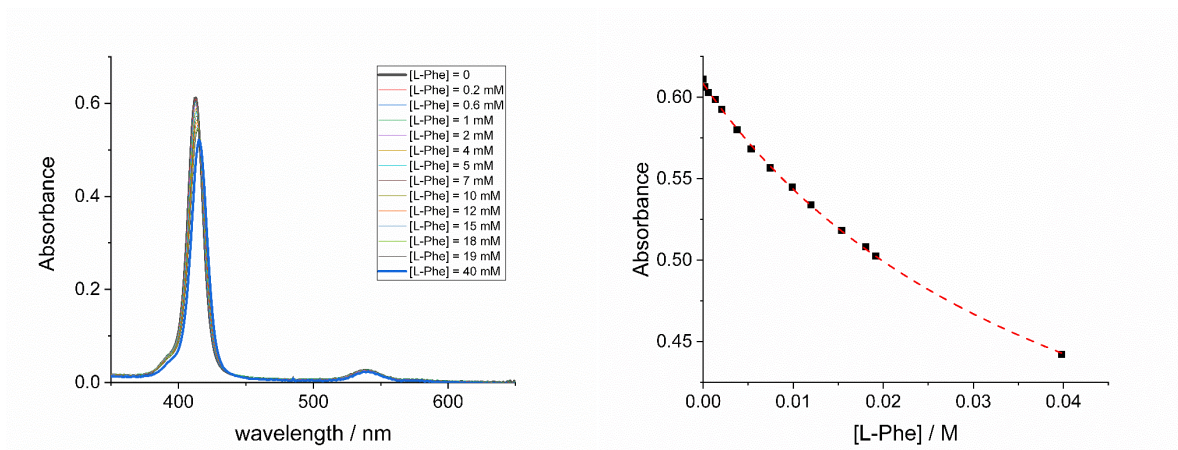


Figure S1. (left) UV/Vis absorption spectral changes for the progressive titration of CuTPPS₄⁴⁺ (black line) with L-Phe up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of CuTPPS₄⁴⁺ as function of the total concentration of added L-Phe. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [CuTPPS₄⁴⁺] = 1.5 μ M; [L-Phe] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

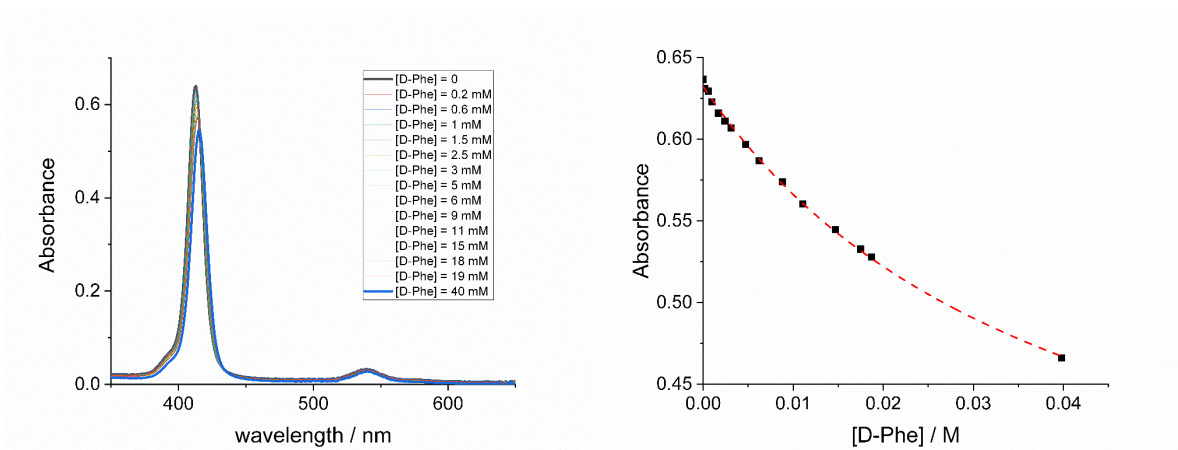


Figure S2. (left) UV/Vis absorption spectral changes for the progressive titration of CuTPPS₄⁴⁺ (black line) with D-Phe up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of CuTPPS₄⁴⁺ as function of the total concentration of added D-Phe. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [CuTPPS₄⁴⁺] = 1.5 μ M; [D-Phe] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

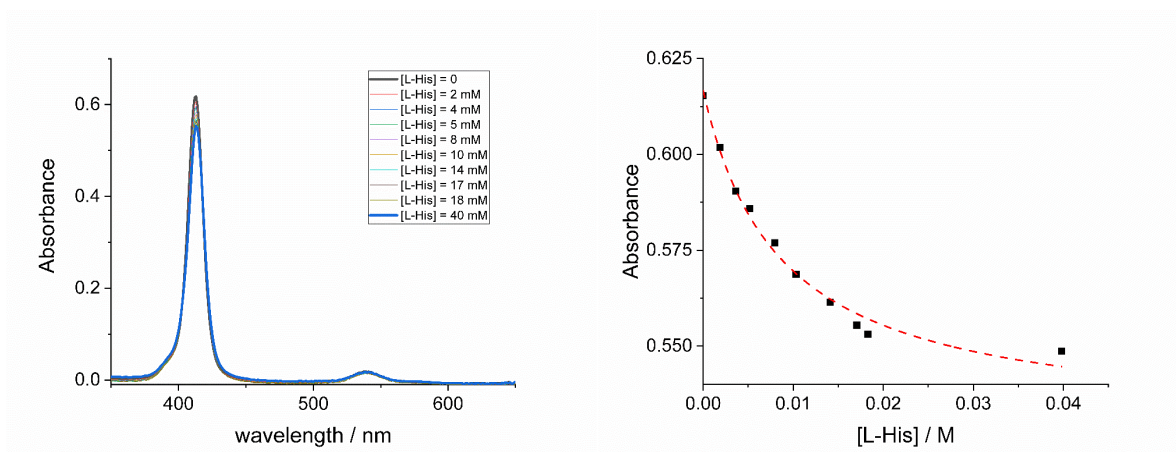


Figure S3. (left) UV/Vis absorption spectral changes for the progressive titration of CuTPPS_4^{4-} (black line) with L-His up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of CuTPPS_4^{4-} as function of the total concentration of added L-His. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: $[\text{CuTPPS}_4^{4-}] = 1.5 \mu\text{M}$; $[\text{L-His}] = 0 - 40 \text{ mM}$; acetate buffer 100 mM, pH = 4; $T = 298 \text{ K}$; cell path length 1 cm.

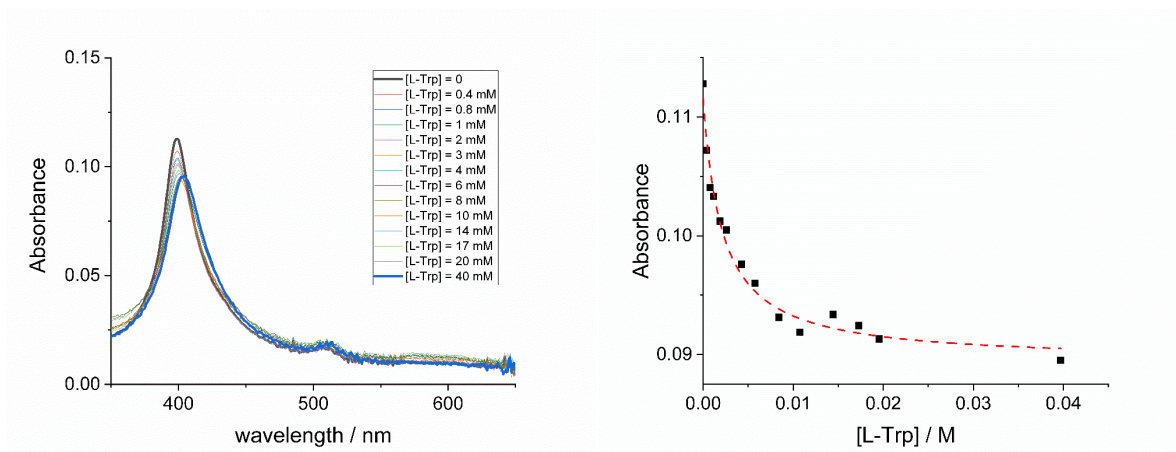


Figure S4. (left) UV/Vis absorption spectral changes for the progressive titration of PtTPPS_4^{4-} (black line) with L-Trp up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of PtTPPS_4^{4-} as function of the total concentration of added L-Trp. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: $[\text{PtTPPS}_4^{4-}] = 1.5 \mu\text{M}$; $[\text{L-Trp}] = 0 - 40 \text{ mM}$; acetate buffer 100 mM, pH = 4; $T = 298 \text{ K}$; cell path length 1 cm.

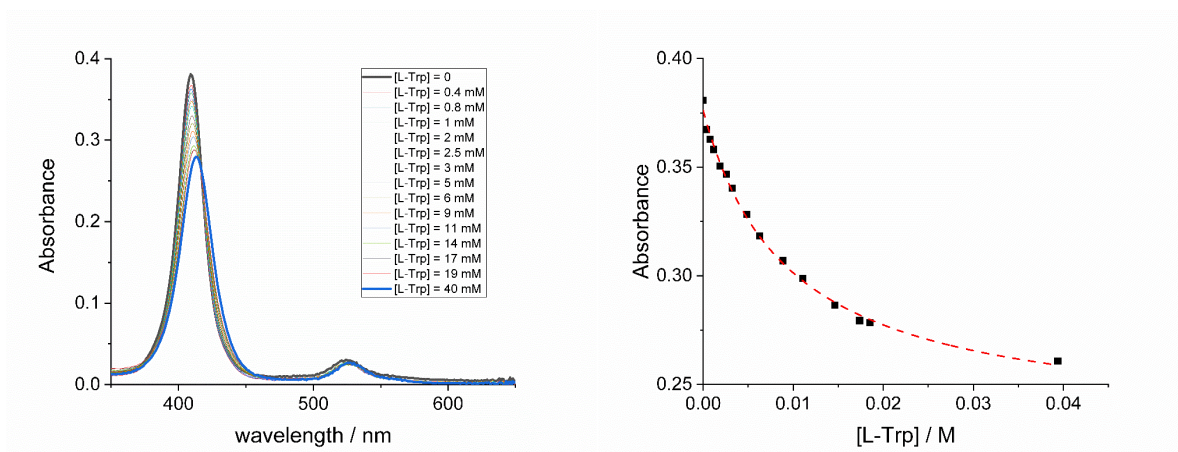


Figure S5. (left) UV/Vis absorption spectral changes for the progressive titration of NiTPPS₄⁴⁻ (black line) with L-Trp up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of NiTPPS₄⁴⁻ as function of the total concentration of added L-Trp. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [NiTPPS₄⁴⁻] = 1.5 μ M; [L-Trp] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

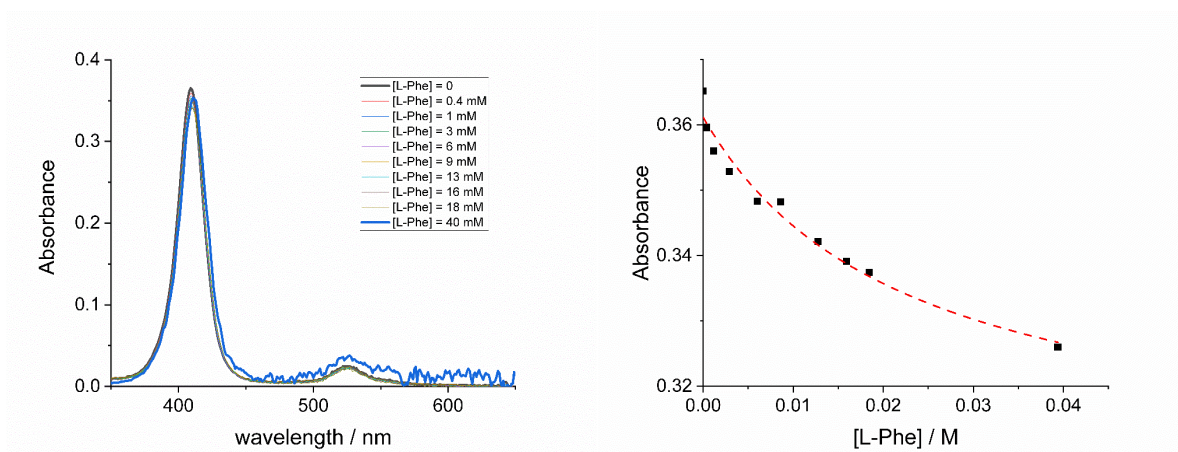


Figure S6. (left) UV/Vis absorption spectral changes for the progressive titration of NiTPPS₄⁴⁻ (black line) with L-Phe up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of NiTPPS₄⁴⁻ as function of the total concentration of added L-Phe. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [NiTPPS₄⁴⁻] = 1.5 μ M; [L-Phe] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

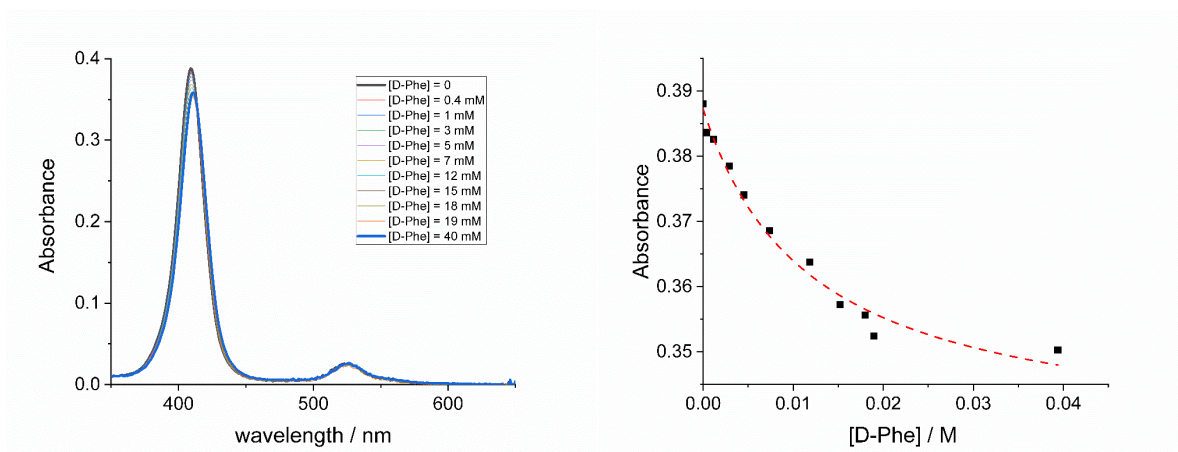


Figure S7. (left) UV/Vis absorption spectral changes for the progressive titration of NiTPPS₄⁴⁻ (black line) with D-Phe up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of NiTPPS₄⁴⁻ as function of the total concentration of added D-Phe. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [NiTPPS₄⁴⁻] = 1.5 μ M; [D-Phe] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

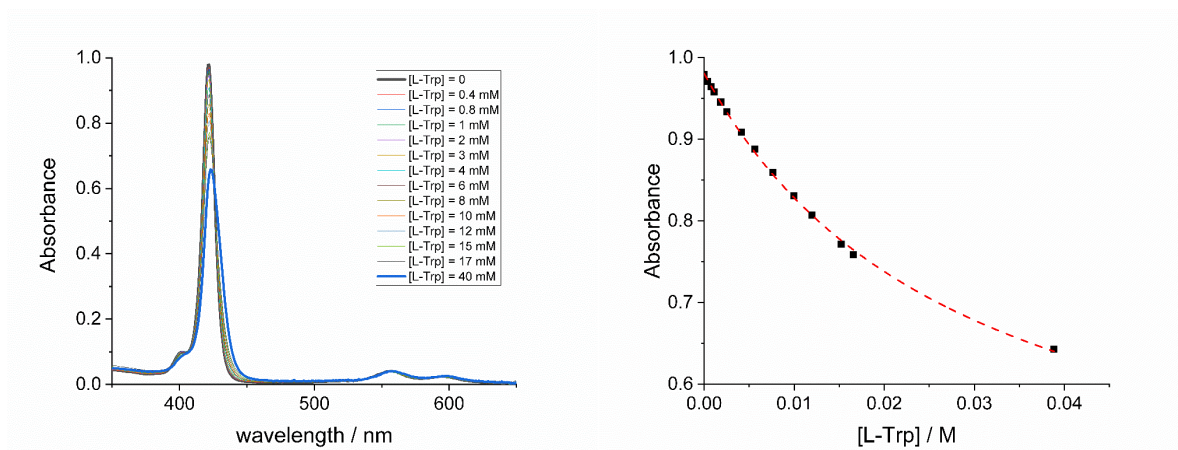


Figure S8. (left) UV/Vis absorption spectral changes for the progressive titration of ZnTPPS₄⁴⁻ (black line) with L-Trp up to a concentration of 40 mM (blue line). **(right)** Absorbance changes at the B-band of ZnTPPS₄⁴⁻ as function of the total concentration of added L-Trp. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: [ZnTPPS₄⁴⁻] = 1.5 μ M; [L-Trp] = 0 – 40 mM; acetate buffer 100 mM, pH = 4; T = 298 K; cell path length 1 cm.

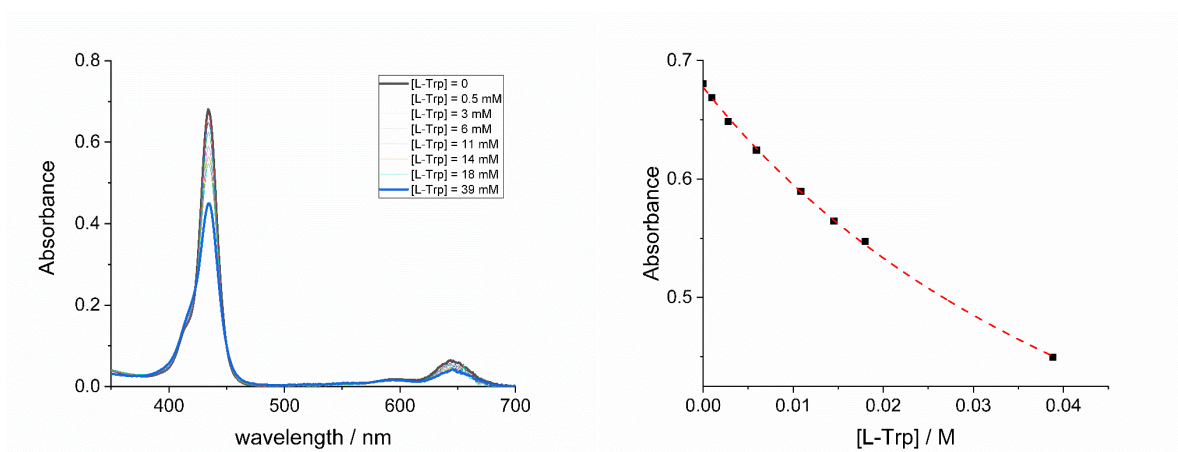


Figure S9. (left) UV/Vis absorption spectral changes for the progressive titration of $\text{H}_2\text{TPPS}_4^{2-}$ (black line) with L-Trp up to a concentration of 40 mM (blue line). (right) Absorbance changes at the B-band of $\text{H}_2\text{TPPS}_4^{2-}$ as function of the total concentration of added L-Trp. The red curve is the best fitting of the experimental data to eq. 6 (see Materials and methods). Experimental conditions: $[\text{H}_2\text{TPPS}_4^{2-}] = 1.5 \mu\text{M}$; $[\text{L-Trp}] = 0 - 39 \text{ mM}$; acetate buffer 100 mM, pH = 4; $T = 298 \text{ K}$; cell path length 1 cm.

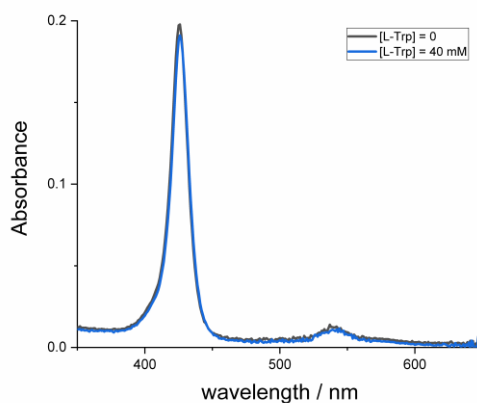


Figure S10. UV/Vis spectra of CoTPPS_4^{4-} (black line) and in presence of a concentration of 40 mM of L-Trp (blue line). Experimental conditions: $[\text{CoTPPS}_4^{4-}] = 1.5 \mu\text{M}$; $[\text{L-Trp}] = 40 \text{ mM}$; acetate buffer 100 mM, pH = 4; $T = 298 \text{ K}$; cell path length 1 cm.

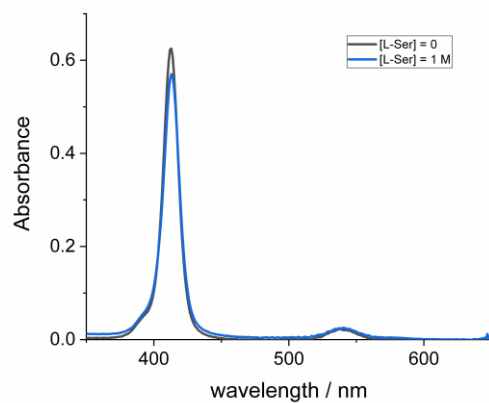


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