**Dear Editor**,

**Journal of the Serbian Chemical Society**

Following corrections has been carried out in our manuscript

**Dear JSCS Journal Manager,**

**Journal of the Serbian Chemical Society**

|  |  |  |
| --- | --- | --- |
| **Manuscript ID** | **:** | **6968** |
| **Title** | **:** | **Computational, antimicrobial, DNA binding and anticancer activities of pyrimidine incorporated ligand and its copper(II) and zinc(II) complexes** |

Thank you for your useful comments and suggestions on the improvement of our manuscript. We have modified the manuscript and please find enclosed the revised manuscript entitled **“Computational, antimicrobial, DNA binding and anticancer activities of pyrimidine incorporated ligand and its copper(II) and zinc(II) complexes”** to be considered for publication in the **Journal of the Serbian Chemical Society**.

All the comments of the editors are addressed and they are given below,

|  |  |  |  |
| --- | --- | --- | --- |
| **Line Numbers** | **Already exist** | **Corrected** | **Authors****Suggestions** |
| **26** | *Kb* | Kb | Corrected |
| **29** | & | and | Corrected |
| **58** | Also | Also, | Corrected |
| **68** | 400 MHz & 125 MHz | 400 and 125 MHz | Corrected |
| **88, 101 and 112** | λ | *λ* | Corrected |
| **136** | Equation 1 is image format | Equation 1 is equation format | Corrected |
| **152** | Λm | *Λ*m | Corrected |
| **191** | 1522 cm-1 & 1535 cm-1 and 1388 cm-1 and 1384 and cm-1 | 1522 cm-1 (**1**) and 1535 cm-1 (**2**); 1388 cm-1 (**1**) and 1384 cm-1 (**2**) | Corrected |
| **207** | Equation is an image format | Equation is an equation format | Corrected |
| **208, 208** | &, & | and | Symbol modified |
| **209** | UV | UV-Visible | Corrected |
| **217-220** | Equation is an image format | Equation is an equation format | Corrected |
| **256** | were | was | Corrected |
| **270** | Figure 6 | Figure 2 | Corrected |
| **272** | Table 5 | Table 2 | Corrected |
| **289** | TABLE 5 | Table 2 | Corrected |
| **276-283** | Moreover, the IC50 values of the complexes **1** and **2** against cancer cell lines results reveal that, complex **1** has significant anticancer ability on MCF-7 (54.51 ± 2.73 µg/mL) and HeLa (55.40 ± 2.77 µg/mL) cell lines than HEp2 cell line (77.57 ± 3.88 µg/mL). But complex **2** has considerable anticancer activities on selected three cancer cell lines (58.89 ± 2.94 µg/mL, MCF-7; 59.98 ± 2.99 µg/mL, HeLa; 60.79 ± 3.04 µg/mL, HEp2). From their observations, the pyrimidine incorporated complexes **1** and **2** can be control the growth of cancer cells. | Moreover, the IC50 values of the complexes **1** and **2** against cancer cell lines reveal that, complex **1** has moderate anticancer ability on MCF-7 (54.51 ± 2.73 µg/mL) and on HeLa (55.40 ± 2.77 µg/mL) cell lines which is not so obvious on HEp2 cell line (77.57 ± 3.88 µg/mL). But complex **2** expresses modest anticancer activities on all selected three cancer cell lines (58.89 ± 2.94 µg/mL, MCF-7; 59.98 ± 2.99 µg/mL, HeLa; 60.79 ± 3.04 µg/mL, HEp2). From these observations, the pyrimidine incorporated complexes **1** and **2** could control the growth of cancer cells. | The paragraph have been modified |
| **286** | Fig. 6 | Fig. 2 | Corrected |
| **297** | 0.3Å, Table 2 | 0.3 nm, Table 3 | Unit has been converted and table number has been modified |
| **303** | TABLE 2 | TABLE 3 |  |
| **310** | Figure 2, &, & | Figure 3, and , and | Corrected |
| **316** | Equation is an image format | Equation is an equation format | Corrected |
| **318** | ${\left[DNA\right]}/{ε\_{a}-ε\_{f}}$ versus [DNA] | *C*DNA]/(εa–εf) *vs.C*DNA | Corrected |
| **319** | Table 3 *Kb* | Table 4, *K*b | Corrected |
| **330-332** | **Fig. 2** Absorption spectra of complexes **1** (a) and **2** (b) in Tris-HCl/NaCl buffer at RT in the presence of CT-DNA solutions. Dotted line indicate free complex; lines indicate the presence of DNA | **Fig. 3** Absorption spectra of complexes **1** (a) and **2** (b) in Tris-HCl/NaCl buffer at room temperature in the presence of CT-DNA solutions. Dotted lines refers to free complex; lines refers to absorption spectra of complex in the presence of different concentration DNA. | The figure number and lines have been modified |
| **336** | *Figure 3, &, &* | Figure 4 and, and | Corrected |
| **343 and 344** | *Ksv* | *K*sv | Corrected |
| **344** | [Q] | *CQ* | Corrected |
| **350-353** | Table 4, *Ksv Kapp* | Table 5*, K*sv*Kapp* | Corrected |
| **355** | TBALE 4 | TABLE 5 | Table number has been modified |
| **366** | Figure 4, & | Figure 5, and | Corrected |
| **372** | Fig. 4 | Fig. 5 | Figure number has been modified |
| **377** | [complex]/[DNA]Figure 5 | *c*complex/*c*DNAFigure 6 | Corrected |
| **383** | Fig. 5 | Fig. 6 | Figure number has been modified |

**Tables**

|  |  |  |  |
| --- | --- | --- | --- |
| **Table****Number** | **Already exist** | **Corrected** | **Authors Suggestions** |
| 1 | Bacterial strains (Zone of inhibition in mm)Fungal strains (Zone of inhibition in mm) | Zone of inhibition, mm (Bacterial strains)Zone of inhibition, mm (Fungal strains) | Corrected |
| 2 | **IC50 (**µg/mL) | IC50,µg/mL | Corrected |
| 3 | Absolute EnergyLibdock ScoreH-bond | kcal mol-1kcal mol-1No. of H-bond | Unit includedUnit includedTotal numbers are indicated |
| 4 | λmax (nm)Δ*λ* (nm)Hypochromism (%)*K*b × 103 (M–1) | *λ*max, nmΔ*λ*, nmHypochromism, %*K*b × 103, M–1 | Corrected |
| 5 | *Ksv , Kapp* | *K*sv*, K*app | Corrected |

**Figures**

|  |  |  |  |
| --- | --- | --- | --- |
| **Figure numbers** | **Already exist** | **Corrected** | **Authors Suggestions** |
| 1 | Low image quality | High quality image | High quality image has been inserted |
| 2 | IC50 (µg/mL)X axis legend not included | IC50, µg/mLX-axis legend included | Corrected |
| 3 | Absorbance (nm)Low resolution image | Absorbance, nmHigh resolution image | CorrectedHigh resolution image has been inserted |
| 4 | [Q]Low resolution image | CQ / MHigh resolution image | CorrectedUnit has been includedHigh resolution image has been inserted |
| 5 | Current (µA)Potential (V)Low resolution image | Current, µAPotential, VHigh resolution image | CorrectedCorrectedHigh resolution image has been inserted |
| 6 | $$(η/η\_{0})^{1/3}$$[Comple]/[DNA]Low resolution image | $$(η/η\_{0})^{1/3}$$*C*complex/*C*DNAHigh resolution image | Text has been modified to ItalicCorrectedHigh resolution image has been inserted |

Once again I thank for your valuable comments to clear my mistakes.

Thank you very much for your efforts in handling this manuscript.

Look forward to seeing your reply.

Yours sincerely,

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