"Response to Reviewers"

Reviewer A:

Does the manuscript contain enough significant original material?:

    yes

Is the manuscript clearly and concisely written?:

    yes

Are the conclusions adequately supported by the data?:

    yes

Does the manuscript give appropriate credit to related recent publications?:

    yes

Are the references appropriate and free of important omissions?:

    yes

Is the length of the manuscript appropriate?:

    yes

Does the manuscript need condensation or extension?:

    no

Is the quality of the figures (including legends and axes labelling)

satisfactory?:

    no

Are the nomenclature and units in accordance with SI?:

    no

Are the English grammar and syntax satisfactory?:

    yes

ADDITIONAL COMMENTS

Please indicate the page numbers for suggested corrections.

Please, be as specific as possible if major correction by the author(s) is

recommended! :

    In the manuscript by Iqbal et al, synthesis, FT-IR, electron spin

resonance, absorption spectroscopy, electrochemistry and powder and single

crystal XRD characterization of copper(II) complex with para-methylphenyl

acetate have been reported. Investigated complex is biologically evaluated

for antifungal activity. However, there are some issues that need to be

addressed, before the acceptance of this paper in Journal of the Serbian

Chemical Society.

1) The introduction part of the manuscript should be extended. The authors

evaluated antifungal activity of the investigated complex, and it is

appropriate to highlight the biological importance of copper(II) complexes

and ability of copper(II) complexes to bind to DNA molecule.

**Ans: The introduction part of the manuscript has been extended and biological importance and DNA-binding potential of copper(II) complexes has been highlighted and supported with new references.**

2) Schematic presentation of the reaction for the synthesis of copper(II) complex should be drawn.

**Ans: Schematic presentation of the reactions for the synthesis of copper(II) complex has been drawn and labelled as scheme 1.**

3) Table 1 presenting crystal data and structural parameters for the complex (not complexes as written in the text, page 7) should be removed to the supplementary material.

**Ans: Table 1 presenting crystal data has been moved to the supplementary material and labelled as Table S1.**

4) In the Figure 5, 6, 7 and Figure S3, the concentration of DNA and complex should be written.

**Ans: In the Figure 5, 6, 7 and Figure S3, the concentration of DNA and complex has been written.**

5) Also, in Figure 8, the concentration of DNA, ethidium bromide and investigated complex should be written. Can authors calculate Stern-Volmer constant and percentage of hypochromic effect? The authors will be able to make more precise conclusion if they calculate the value of the constant. In future, I suggest to perform DNA interaction in buffer solution.

**Ans: In Figure 8, the concentration of DNA, ethidium bromide and investigated complex has been written. Stern-Volmer constant and percentage of hypochromic effect has been calculated and mentioned in the relevant section. We will do it in a clearer way in future.**

7) The excitation wavelength should be written in the part of Florescence spectroscopy (Supplementary material).

**Ans:** **The excitation wavelength has been written in the part of Florescence spectroscopy (Supplementary material).**

Considering all above mentioned facts, I recommend publication of this manuscript in the Journal of Serbian Society after major correction.

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In my opinion, this manuscript should:

    be published after major revision and additional review

If manuscript is suitable for publishing, referees recommendation :

    Original scientific paper

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Reviewer C:

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    The manuscript by Muhammad Iqbalaet al. describes the synthesis of a

polymeric complex of copper(II) obtained from the reaction of para-16

methylphenyl acetate and copper sulfate.

The complex was fully characterized using FT-IR, electron spin resonance,

absorption spectroscopy, electrochemistry and 18 powder and single crystal

XRD studies. The work has been competently conducted, the copper(II) binding

properties of the tetrapeptide were investigated in dependence of pH by

potentiometric and spectroscopic methods. The complex was also screened for

DNA binding ability through cyclic voltammetry, absorption and florescence

spectroscopy and 25 viscometry and it showed significant activity 246

against fungal strain Mucor piriformis.

The discussion of the data is complete and appropriate. I recommend the

publication with minor revision in Journal of the Serbian Chemical Society.

In particular, the authors should improve the clarity of the paper inserting

the nomenclature of the complex and a scheme of its synthesis. In addition,

the discussion of the biological data and the reference section should be

improved inserting comparisons with other copper complexes showing DNA

binding ability or with copper complexes having different biological

targets.

**Ans: IUPAC name of the complex has been added in structural section as well as in the diagram.**

**The scheme of synthesis has been added following the synthetic procedure.**

**The discussion of anti-microbial activity has been improved and more comparison and explanation has been added. Moreover, the DNA-binding constant values have been compared with other complexes of same and different metals.**

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If manuscript is suitable for publishing, referees recommendation :

    Original scientific paper