

MEDICINAL CHEMISTRY**Manuscript Evaluation Form**

Editor-in-Chief: Dr. Dimitra Hadjipavlou-Litina, Aristotle University of Thessaloniki, Thessaloniki, Greece

PAPER TITLE	Synthesis and Antitrypanosomal Profile of Novel Hydrazoneoyl Derivatives
AUTHOR(S) NAME	Natália N. Santiago, Giulianna P. de Alcântara, Juliana Silva da Costa, Samir A. Carvalho, Juliana M. C. Barbosa, Kelly Salomão, Solange L. de Castro, Henrique M. G. Pereira and Edson F. da Silva

Sec. A: REFEREE'S ASSESSMENT*(cross as appropriate)*

Criterion	Excellent	Good	Fair	Poor
Originality of the topic	x			
Technical Quality		x		
Importance in its Field	x			
Style & Overall Representation		x		
Readily Understandable	x			
Suitability for the Journal	x			
Adequate Illustrations or Drawings	x			
English language		x		
Description	Yes	No	Comments/ Suggestions	
Does the title represent manuscript's contents?	x			
Is the Abstract accurate and concise?	x			
Are the approach/ methods properly described?	x			
Are the conclusions and interpretations sound?	x			
Are the references properly cited?	x			
Is this a new/ original/ contribution?	x			
Is it within the scope of the journal?	x			
Overall the Paper is Rated:	(Excellent ----- Poor) 10 9 8 7 6 5 4 3 2 1			

Sec. B: REFEREE'S RECOMMENDATIONS**OTHER SPECIFIC CRITICISMS**

Accept with minor changes	x	Imperfect style	x
Accept with major changes		Too long	
Reject in current form, but may be resubmitted		References incorrectly presented	
Reject, with no resubmission		Typographical and Grammatical errors	

PAPER TYPE: Research article

Review article

Letter article

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Confidential Comments to the Editor (not for Transmission to Authors):

The manuscript is within the scope of the journal and suitable for publication after some revision that I suggest in the comments for the authors.

Comments for the Authors (continue on another sheet, if necessary):

Review of the article entitled

Synthesis and Antitrypanosomal Profile of Novel Hydrazonoyl Derivatives,

by Natália N. Santiago, Giulianna P. de Alcântara, Juliana Silva da Costa, Samir A. Carvalho, Juliana M. C. Barbosa, Kelly Salomão, Solange L. de Castro, Henrique M. G. Pereira and Edson F. da Silva

This study describes the construction and antitrypanosomal profile of a new family of hidrazonoyl substituted derivatives. The results of the evaluation indicated that these compounds display an important antitrypanosomal activity *in vitro*. One of the derivatives showed an activity similar to that of benznidazole, the standard drug for Chagas' disease, and low toxicity to mammalian cells.

The manuscript is within the scope of the journal and suitable for publication after some revision.

The English language should be improved at some places.

For example, in the second sentence of paragraph 4.1., replace

Bond positions are presented as wavenumbers (ν), instead of

Bond position are presented as wavenumbers (ν)

Check that the entire manuscript is formatted according to the style of the journal.

Move subheading

E)-2-(1-methyl-5-nitro-1*H*-imidazol-2-yl)-1-phenyl-2-(2-(4-nitrophenyl)-hydrazono)ethanone (9) to the next page

State the correct number of paragraph

4.3 Cytotoxicity to mammalian cells, instead of 4.5

Delete the point at the end of Table 1 caption

FIELD OF EXPERTISE OF REFEREE: Materials and chemical technologies, nanotechnologies, biomedical engineering, chemistry, medicinal chemistry

Name & Affiliation of referee: Tamara Jovanovic, Department of Biomedical Engineering, Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, 11120 Belgrade, Serbia

Dr Tamara Jovanovic /January 12, 2019

SIGNATURE OF REFEREE / DATE

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