



SDI Review Form 1.6

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_46214
Title of the Manuscript:	Helium Neon Laser Effects on Human Whole Blood by Spectroscopy in Vitro Study
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>24,25. It is very interesting if so low power He-Ne laser (632nm, 3mW – according to abstract 2mW?) causes degradation of blood components. I think that for the laser therapy are used also more powerful He-Ne lasers (15-30mW) without of some risks.</p> <p>28-29. The sentence “The FTIR spectra for FTIR spectra of irradiated blood samples. Show significant changes” needs correction.</p> <p>29-43, 53. 2mW or 3mW? Needs clarification. Needs grammar revision.</p> <p>68-79. There is observed significant change of the absorption of the blood within of full spectral range of investigation (300-800nm) that is much important surprise for me for such low power density of He-Ne laser radiation (632nm; $\approx 1.7\text{mW/cm}^2$). According th Figure 2 absorption decreases significantly in the all UV-VIS range. This means that the concentration of absorbing centres is decreasing. I column of table.1 needs correction, because 340nm; 416nm; 542nm and 576nm are wavelengths and not the wave numbers.</p> <p>89-135. The FTIR spectres of the separate chromophore and auxochrome groups (C=O, N=O, C-H, N-H, C-O, O-H) show also significant changes and indicates a significant inecreasing in their concentration, which is a bit unexpected. In spite of this these results are very interesting but I think they need following investigation in the future works.</p> <p>140-146. All the same, to confirm such a significant phototransformation, additional research is needed in the future.</p>	
Minor REVISION comments	In my opinion, the results were required broader interpretations and comments.	
Optional/General comments	The results obtained should have an important application in the practice of laser therapy to unwanted prevent side effects.	



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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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