



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2013_IJBcRR_8617
Title of the Manuscript:	Mini-review: Respiratory and pH imbalance at the early precancerous stage
Type of the Article	Mini-review

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>)



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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)
<u>Compulsory</u> REVISION comments	1) Page 18, line 508 – “long standing hypoxia”. How long is it standing? It has to be noted that organism is able to compensate the hypoxic state immediately. 2) Page 18, lines 512-515 – How is it possible to detect the precancerous stage in the tissue to start the preventive therapy, in particular oxygen delivery to the cells? How can oxygen be delivered to the precancerous cells? How can selective oxygen delivery be received? What kind of organism response will be on the exogenous oxygen? 3) Author discusses the precancerous state and solid tumors metabolism from the position of oxygenation and glycolysis (page 11). He writes: “In solid regions of tumors the most consistent finding is: a higher glucose utilization rate, a higher lactate production, and a higher pH than in the surrounding tissues.⁷⁰”. But, it is the example with malignant glioma only. It is well known that the most solid tumors are characterized by acidic extracellular pH that is lower than pH in surrounding tissues. It is a key feature of solid malignant tumors. This position of author is not correct and needs to be edited.	
<u>Minor</u> REVISION comments	1) Fig. 1 – Cancer I and Cancer II – it is not evidently and informative. The explanations on the page 5, line 124 and page 7, lines 182-193 are not clear. 2) Fig. 3 – it is not clear, it needs to be clarified. 3) References - 46. West, J. B. (2012) ... It neither is nor clears, to clarify.	



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	- 101. The year of publication is absent.	
<u>Optional/General</u> comments	The material presented in the manuscript is interesting and actual. The idea that respiratory and pH imbalance impact on tumor development was presented. The exploited literature data partly confirm author's idea. At the same time some there are basic questions that need to be clarified. 1) What does it mean "an early precancerous stage"? How can it be identified? It is very important because how will we know the time to start the preventive therapy? 2) Page 1 (abstract), lines 12-14 and page 18, lines 509-511 – It is very simple explanation of cancerogenesis. It needs to be presented more correctly. 3) Page 1 (abstract), line 15 and – How can the overstressed cells be detected in whole organism? How will organism response to these cells? 4) Page 1 (abstract), line 17 – What does it mean "most cancer disease"? 5) Author proposes to use the oxygen delivery as one of preventive means. How will oxygen reach "overstressed cells" only? And what kind of response of organism will be on the exogenous oxygen? Is there selectivity of such effect and what level? Please clarify ethical issue, if any	

Reviewer Details:

Name:	Sergej P. Osinsky
Department, University & Country	Microenvironment of Tumor Cells, R.E. Kavetsky Institute of experimental Pathology, Oncology and Radiobiology, National Academy of Sciences, Ukraine