Reviewer’s report

Title: SIRT1 Activation Mediates Heat-Induced Survival of UVB Damaged Keratinocytes

Version: 0 Date: 18 Apr 2017

Reviewer: W. Gelderblom

Reviewer's report:

Specific comments

Line 95: Provide country name for Promocell

Lines 99, 114, 126: Be consistent when using abbreviations for countries like USA and AUS

Line 100: Short description or a schematic illustration of the UVB and heat exposure procedures should be included for better clarification of experimental details. Lines 161-164 belongs to Materials and Method section and not in Results. What was the duration of UVB treatment??

Lines 349-350: Statement not correct as no prove is provided for a synergistic effect.

Lines 351-352: Correct way will be to state whether heat treatment will enhance tumorigenesis effected by UVB.

Lines 316-326: The role of HSP en pre- and post UVB not clear. Seems that opposite or differential effects are noticed by heat treatment - what will be the effect of SIRTD1 in this regard??

General comments

More experimental details required. The differential effects of heat treatment in pre- and post-UVB exposure is complicated regarding its role in DNA damage and regulation of apoptosis. More clarity is required.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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