Reviewer’s report

Title: Possible involvement of caveolin in attenuation of cardioprotective effect of ischemic preconditioning in diabetic rat heart

Version: 2 Date: 15 June 2011

Reviewer: Edward Lesnefsky

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The authors have in general been generally responsive to previous review comments. One major conceptual comment remains as a Minor Essential Revision. It should be discussed in greater detail the implications of the disruption of caveolae from two perspectives. First, acute vs. long term. The acute, pharmacologic disruption performed in the current study has some benefit in the setting of diabetes. However, work from the group of Patel and Roth at UCSD has clearly shown that disruption of caveolae in non-diseased settings is detrimental to cardiac protection, and that long-term disruption is also deleterious. The current study must be discussed in relation to their key work with caveolae in the heart, which is defining the field, and the special circumstance of the present study placed into perspective of their work and the broader field of caveolae, caveolin-3 and cardiac protection.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I have no competing interests.