Reviewer's report

Title: The Favorable Kinetics and Balance of Nebivolol-Stimulated Nitric Oxide and Peroxynitrite Release in Human Endothelial Cells

Version: 1 Date: 6 August 2013

Reviewer: Paul Jurasz

Reviewer's report:

The manuscript entitled “The Favorable Kinetics and Balance of Nebivolol-Stimulated Nitric Oxide and Peroxynitrite Release in Human Endothelial Cells” describes the molecular mechanisms by which the anti-hypertensive drug Nebivolol stimulates NO production by endothelial cells. The authors utilize sophisticated amperometric nanosensors to measure both endothelial NO and ONOO- production upon incubation with Nebivolol along with a number of pharmacological tools to tease out the pathways involved in Nebivolol-stimulated NO release. Overall, the study is well designed, the findings novel, and the manuscript is clear and concise.

Discretionary revisions:
1. Please add N-values to figure legends.
2. Please indicate statistical significance with “*” on figures 4A and 5C.

Level of interest: An exceptional article

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests.