Author’s response to reviews

Title: Identification of undecylenic acid as EAG channel inhibitor using surface plasmon resonance-based screen of KCNH channels

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Author’s response to reviews:

Dear Dr. Simone Brogi,

Thank you for reviewing our paper “Identification of undecylenic acid as EAG channel inhibitor using surface plasmon resonance-based screen of KCNH channels” (PHAT-D-19-00129). We are delighted by the positive comments of the reviewers. Please find our detailed response to the reviewers’ comments below.

Response to Reviewer #1

1. There are too many abbreviations in the abstract that should be avoided as far as possible and must be advertised at the first mention. Likewise, the abbreviations in the main text are to be written out again at the first mention. The background is too long, this section should be shortened. Abbreviations in the Key words should be avoided. The methods section should be streamlined.

As the reviewer suggested we have now shortened the methods section (removed lines 19-48 on page 6) and the discussion section (replaced lines 43-58 on page 20 with one line). We also checked all of the abbreviations to make sure they are defined at the first mention in the abstract and in the text.
Response to Reviewer #2

1. My only comment is that is totally in vitro (no cells are involved) which I understand as it is it actually the proof of principle for a new methodology to identify new compounds interacting with these channels. I am pretty sure that the authors will soon have data on how the isolated compounds work under real conditions and I am looking forward to seeing them.

We thank the reviewer for the comment. Indeed, we are in the process of testing the effects of the identified regulators in native environment for the channels and hope to share the results with the scientific community in the future.

Response to Reviewer #3

We thank the reviewer for the positive comments.