First, we apologize for the delay in responding the comments. We put a lot of effort into improving the manuscript.

We thank the reviewers for all their comments as we have found them helpful to improve the manuscript. We believe the current version has been improved it significantly. In the following lines, we will address their comments directly.

Reviewer 2:

1) Genome wide analysis of transcriptome is important for analyzing the function of transcription factors. I wonder whether genome wide experiments such as ChIP-seq or RNA-seq have been conducted to find target genes of ERRa, although the authors showed several target genes of HIF1 and ERRa (Ln 71-85, 133-140, 207-209).

Answer: We included in this review *several ChIP-seq studies published recently and summarized them in paragraph XXX.*

2) The regulation of ERRa by hypoxia is not clearly described. The authors showed HIF1 binding sequence in ERRa promoter (Ln. 238), suggesting the indirect activation of ERRa by hypoxia. I wonder whether direct activation of ERRa by hypoxia has been reported.

No direct activation has been reported to date, only that ERRa can be activated independently of HIF-1a.

3) Although the authors showed the involvement of ERRa in cancer progression, activation of mitochondria by ERRa might be important in the development of other diseases such as neurodegenerative diseases or metabolic diseases. Please summarize the association between ERRa depletion and these pathological conditions.

To the best of our knowledge, no correlation/association has been put forward relating ERRa and neurodegenerative diseases. However, a great review of the regulation of metabolisms by ERRs on a murine model is cited in paragraph XXX

4) Several sentences should be rephrased because it is difficult to understand. Ln. 215 In vitro experiments pointed out that ERRa's expression is HIF-1 is activity dependent.

5) Ln. 253 ERRa inhibition with XCT790, in a SCI murine model, decreased the expression of these proteins. It is unclear what proteins “these proteins” indicates. Please rephrase.

We have improved the writing across the manuscript to improve clarity.

We hope these changes are enough to give our manuscript the quality required to publish it.