Reviewer's report

Title: The sequence and analysis of an inbred pig genome

Version: 1 Date: 10 April 2012

Reviewer: Roberta Davoli

Reviewer's report:

Minor Essential Revisions

I suggest to the Authors to consider carefully the Paragraph gene prediction and evolution that could be revised a little with the aim to improve the clarification of the data concerning the dynamic changes of evolution with the analysis of gene family expansion and contraction. This part concerning genes lost and gained during evolution could be better clarified to explain better the link between the data reported for phylogenetic analysis. For example is not clear what is the Most common ancestor and if the Authors have considered for this analysis the inbred pig sequence obtained.

Discretionary Revisions.

This concerns the text of the paragraph 5 Human druggable domain and disease associated orthologues in pig. This paragraph is interesting but not always very clear. It's possible to understand from the text and from the supplementary material that the Authors would like to obtain the counterpart of each human drug target gene from the other species considered but is not very clear how the Authors have obtain the described results.

Probably these interesting data that could provide useful informations for biomedical studies could be analysed more in depth and with more details in a separated manuscript aimed to study this specific item.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests' below