Reviewer’s report

Title: Antagonistic pleiotropy as a widespread mechanism for the maintenance of polymorphic disease alleles.

Version: 2 Date: 18 November 2011

Reviewer: Kabilan Velliyagounder

Reviewer’s report:

I have read the revised manuscript entitled “Antagonistic pleiotropy as a widespread mechanism for the maintenance of polymorphic disease alleles” submitted by Dr.Ashley and Dr.Andrew. The authors have responded well and carried out all the necessary corrections. The authors have adhered to BMC guidelines and have improved the narrative. This manuscript is the first of its kind to demonstrate that pleiotropic allele frequencies are important and have highlighted the potential treatment options for genetic disorders. The inclusion of this article will help the readers of BMC Medical Genetics to explore this area for future studies. I therefore, recommend the manuscript for publication.

Level of interest: An article of importance in its field

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"