Reviewer's report

Title: Are Minor Alleles More Likely to be Risk Alleles?

Version: 1 Date: 01 Dec 2017

Reviewer: Paula Ramos

Reviewer's report:

Dr. Kido and colleagues have carefully addressed all comments. The manuscript is clear and reads well. I only have two notes regarding a couple of typos:

1) On page 18, line 373, "whereas y was 0.588" should be corrected to "whereas y was 0.256";
2) The colors of the diseases on Figure 4 are mixed up, or misassigned. The legend states: Neuropsychiatric diseases (blue), autoimmune diseases (green), metabolic and cardiovascular diseases (orange), cancer (red), and unclassified diseases (black) are shown. However, in the figure, there are autoimmune diseases that are not green as they should (multiple sclerosis, ulcerative colitis, type 1 diabetes, rheumatoid arthritis, celiac disease, ankylosing spondylitis, vitiligo, primary biliary cholangitis, systemic sclerosis, and systemic lupus erythematosus), metabolic and cardiovascular diseases that are not orange as stated (coronary heart disease, obesity), and cancers that are not red as they should (chronic lymphocytic leukemia, testicular germ cell tumor, colorectal cancer, breast cancer). Please correct the colors in the figure.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.
Yes

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