

March 7, 2020

Re: Simultaneous SNP selection and adjustment for population structure in high dimensional prediction models by Sahir Rai Bhatnagar, Yi Yang, Tianyuan Lu, Erwin Schurr, JC Loredó-Osti, Marie Forest, Karim Oualkacha and Celia MT Greenwood.

Dear Dr. Cordell,

Thank you for giving us the opportunity to submit a revised manuscript. We would like to thank the reviewers for their additional comments. We have done our best to address each comment with as much clarity as possible. We have attached a formal response letter in which we reproduce the reviewers comments in italic font, and provide our response to each of them below. We have also highlighted our changes in the manuscript with bold text.

We have addressed the reviewer 1's concerns about interpretation of BSLMM coefficients, by counting inclusion in several ways. Although it was never explicitly requested, we considered repeating our simulation study with BSLMM but decided that it would not be helpful, since the goals of ggmix and BSLMM are somewhat different.

We have also submitted our R package to CRAN and are awaiting for the maintainers response before it can be published. We have gone ahead and changed the link to the R package in the manuscript, even though it is not operational yet, but we expect it to be shortly.

Sincerely,

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