# **Genomic selection for any dairy breeding program via optimized investment in phenotyping and genotyping**

Dear Editors,

We would like to submit the enclosed manuscript for publication in Genetics Selection Evolution. The manuscript evaluated the potential of maximizing genetic gain by optimizing investment into phenotyping and genotyping in in a case-study provides suggestions for other dairy breeding programmes.

Genomic selection has been shown to double the rate of genetic gain, but some population still struggle to find the funding for genotyping. In this paper we show, that dairy breeding programmes can implement genomic selection by reallocating part of milk phenotyping resources to genotyping. We explore the improvement of different reallocation schemes, relative price of phenotyping to genotyping, and availability of initial training population

Thank you for your attention. I await your response once the review process is complete.

Best regards, Jana Obšteter and co-authors