



Clarification on GEBVtest Criteria to Use for Interbull Validation

Introduction

On August 2024, the EURC delivered an improved version of the GEBVtest, the software to check the biasness in the genomic models applied by the national genetic centres. The new software was equipped with a new methodology to perform the validation test using de-regressed GEBV (dGEBV) as the official prediction target, a standardized approach to perform the de-regression method and, among other things, also the possibility for the user to choose different validation targets and settings that could have been useful for performing further internal investigation. A more detailed description of the new GEBVtest can be found here

https://interbull.org/web/static/web/Dairy_Validation_EURC%20Report.pdf

Reason for the clarification

Once the first results, based on the new enhanced software, became available it also became clear that the possibility of selecting different validation criteria was wrongly interpreted by some users and results obtained by mixing different criteria were provided. Due to the mixing of the validation criteria, the statistical tests performed by the software no longer have any statistical meaning regardless of if the overall outcome produced was a PASS.

It did emerge, therefore, the necessity to clarify to the users which validation criteria constitute an official GEBVtest result. A new section entitled “Clarification on GEBV test criteria to Use for Interbull Validation” was included in the documentation describing the new GEBV test software in June 2026 and can be found through the following link:

https://interbull.org/ib/gebvtest_software

