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Selection Indices And Prediction Of Genetic Merit In Animal Breeding

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Selection indices exploit genetic covariances, while phenotypic prediction relies on phenotypic covariances between the selection target and the measured phenotype (e.g., crop imaging). Thus, the...

Regularized selection indices for breeding value ...

Book : Selection indices and prediction of genetic merit in animal breeding. 1997 pp.ix + 203 pp. Abstract : This book has its origins in quantitative genetics courses given by the author at Cornell and Edinburgh Universities. It is aimed primarily at final year

undergraduates and first-year postgraduate students of quantitative genetics and animal breeding. It gives a concise account of the ...

Selection indices and prediction of genetic merit in ...

This study aimed to use selection indices by mixed models (REML/BLUP) for prediction of genetic gains in full-sib families of elephant grass and to select the best families and progenies for biomass production. MATERIAL AND METHODS Eight elephant grass accessions belonging to the germplasm bank of the UENF, previously selected as described by de Lima et al. (2011), were used as female genitors ...

Prediction of genetic gains by selection indices using ...

yield (FMY). The selection indices of Smith & Hazel, Willians, Pesek & Baker and Mulamba & Mock were used for gain prediction. The results showed that Mulamba & Mock provided the highest predictive values in the estimation of gains for the selection of hybrids. The topcross hybrids UENF-2205, UENF-2208, UENF-2209 and UENF-2210 presented the best performance and indicated

Assessment of agronomic performance and prediction of ...

Selection index (SI) theory has been applied to predict the net genetic merit, select parents for the next cycle, and maximize the selection response in plant breeding. However, up to now, SI has not been applied to predict unobserved hybrid performance. In hybrid breeding, it is impossible to test every cross, and accurate prediction can help breeders greatly reduce the experimental cost. Traditional genomic selection (GS) targets single-trait prediction, and useful information about other ...

Efficiency of linear selection index in predicting rice ...

Calculation of selection indices is straightforward when phenotype and pedigree data are available. Prediction of economic values 3 to 10 yr in the future, when the offspring of matings planned using the index will be lactating, is more challenging. The first USDA selection index included only milk and fat yield, whereas the latest version of the lifetime net merit index includes 13 traits and ...

Symposium review: Possibilities in an age of genomics: The ...

Many indices can be used in the assessment of the predictions of species distributions, including sensitivity, specificity, overall prediction success (OPS), Cohen's kappa statistic, the odds ratio, and the normalized mutual information statistic (NMI). And some of them have been incorporated into the approaches to determining thresholds.

Selecting thresholds of occurrence in the prediction of ...

J. Jesus Cerón-Rojas, Jose Crossa, Combined Multistage Linear Genomic Selection Indices To Predict the Net Genetic Merit in Plant Breeding, G3: Genes|Genomes|Genetics, 10.1534/g3.120.401171, 10, 6, (2087-2101), (2020). Crossref.

Kenji Togashi, Kazunori Adachi, Kazuhiro Kurogi, Toshio Watanabe, Masanobu Nurimoto, Syohei Toda, Kiyohide Hirohama, Tsutomu Takahashi, Asymptotic four-path ...

Prediction of response to marker-assisted and genomic ...

selection indices and prediction of genetic merit in animal breeding By Irving Wallace FILE ID 4f6843 Freemium Media Library often difficult to compare because data simulation varies real or simulated data are not fully described and not all relevant results are reported in addition some new methods have been compared only in limited genetic the journal of animal breeding and genetics ...

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Analysis of amino acid indices and mutation matrices for sequence comparison and structure prediction of proteins Kentaro Tomii Institute for Chemical Research, Kyoto University. Uji, Kyoto 611, Japan. Search for other works by this author on: Oxford Academic. PubMed. Google Scholar. Kentaro Tomii, Minoru Kanehisa 1. Institute for Chemical Research, Kyoto University. Uji, Kyoto 611, Japan. 1 ...

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Thus, we developed prediction models with the LR, NB and DT classifiers using two subset selection methods, namely, CFS and WFS. The predictive model with the highest prediction power was the WFS-LR prediction model that combined various factors (i.e., age, obesity indices, blood parameters, and spirometric indices). Our findings can be applied ...

Prediction of Prehypertension and Hypertension Based on ...

Summary: Selection indices provide a single value, usually reported in dollars, for the selection of breeding stock that optimizes selection on a number of traits the define profit in a particular production scenario.

If you were to addiction such a