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Understanding and Predicting Genotype x Environment Interactions to Face Global Change

Guest Editors:

Dr. Renaud Rincent

INRAE, Paris-Saclay University, 91190 Gif-sur-Yvette, France

Dr. Jean-Luc Jannink

U.S. Department of Agriculture-Agricultural Research Service, Ithaca, USA

Dr. Émilie Millet

INRAE, Univ Montpellier, Institut Agro, 34000 Montpellier, France

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Message from the Guest Editors

Understanding and predicting genotype x environment interactions are essential to develop varieties adapted to local pedoclimatic and managerial constraints and to design ideotypes for future climatic scenarios. In recent decades, original approaches to model these interactions, sometimes integrating genetic, ecophysiological and statistical modelling, have led to new understanding and methods with greater predictive accuracy.

New tools are now available to characterize the responses of plants to their environments from the molecular to the plot level. The focus of this Special Issue is on the most important measurements and data types in constructing datasets of various complexities and on analyses of these datasets to model genotype x environment interactions to identify breeding goals and methods enabling those goals to be reached efficiently.

Dr. Renaud Rincent Dr. Jean-Luc Jannink Dr. Émilie Millet *Guest Editors*









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Editor-in-Chief

Prof. Dr. Peter Langridge

School of Agriculture, Food and Wine, University of Adelaide, Urrbrae, SA 5064, Australia

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