



## **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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### **Prof. Dr. Leslie A. Weston**

Graham Centre for Agricultural  
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University, Wagga Wagga, NSW  
2678, Australia

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*Agronomy* Editorial Office  
MDPI, St. Alban-Anlage 66  
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