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## PUBLICATIONS

### BOOK CHAPTERS

#### *GENOTYPE × ENVIRONMENT INTERACTION, QTL × ENVIRONMENT INTERACTION AND EXPERIMENTAL DESIGNS*

1. **Yield stability of CIMMYT maize germplasm in international and on-farm trials.** 1989. H. Pham, S.R. Waddington, and J. Crossa. In: *Variability in grain yields: Implications for agricultural research and policy in developing countries.* (eds, J.R. Anderson and P.B.R. Hazell).
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3. **Multivariate Analysis for Classifying Sites: Application to an International Wheat Yield trial.** 1990. J. Crossa, W.H. Pfeiffer, P.N. Fox, and S. Rajaram. In: *Genotype-by-Environment Interaction and Plant Breeding* (ed. M.S. Kang). Dept. Agronomy, Louisiana Agric. Exp. Stn. LSU Agricultural Center, Baton Rouge, Louisiana.
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5. **Pattern analysis of gains from selection for drought tolerance in tropical maize populations.** 1994. S. Chapman, G. Edmeades and J. Crossa. In: *Plant Adaptation and Crop Improvement* (eds. M. Cooper and G.L. Hammer) CAB INTERNATIONAL in association with IRRI and ICRISAT.
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7. **Statistical tests and estimators of multiplicative models for genotype-by-environment interaction.** 1996. P.L. Cornelius, J. Crossa and M.S. Seyedsadr. In: *Genotype-by-Environment Interaction* (eds. M. Kang and H.G. Gauch Jr.), CRC Press, Inc.

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10. **Linear-Bilinear Models for the Analysis of Genotype  $\times$  Environment Interaction.** 2001. J. Crossa, P.L. Cornelius. In: *Quantitative Genetic and Plant Breeding in the Twenty-first Century* (ed. M. Kang), CRC Press, Inc.
11. **Linear-Bilinear Models for the Analysis of Genotype-Environment Interaction.** J. Crossa and P.L. Cornelius. 2002. In *Quantitative Genetics, Genomics and Plant Breeding* (ed. M.S. Kang). CABI Publishing, pp.305-322.
12. **Graphing GE and GGE Biplots.** 2003. Burgueno, J., and J. Crossa. In *Handbook of Formulas and Software for Geneticists and Breeders* (ed. Manjit S. Kang) Chapter 18. The Haworth Press, Inc.
13. **Analyzing QTL-Environment Interaction by Factorial regression, with an Application to the CIMMYT Drought and Low-nitrogen Stress Programme.** F. A. van Eeuwijk, J. Crossa, M. Vargas, J-M Ribaut. In *Quantitative Genetics, Genomics and Plant Breeding* (ed. M.S. Kang). CABI Publishing, pp.245-256.
14. **Studying QTL and QTL  $\times$  Environment Interaction using Partial Least Squares and Factorial Regression.** 2001. F.A. van Eeuwijk, J. Crossa, and M. Vargas. In: *Quantitative Genetic and Plant Breeding in the Twenty-first Century* (ed. M. Kang), CRC Press, Inc.
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19. **Augmented designs for QTL and Association Mapping experiments.** W. Federer and J. Crossa. Experiments in QTL, association mapping and biotechnology (Submitted).

## **GENETIC RESOURCES CONSERVATION AND CHARACTERIZATION**

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#### ***BREEDING: HYBRIDS, HETEROSIS AND HETEROTIC PATTERNS***

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#### *GENOTYPE × ENVIRONMENT INTERACTION*

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55. **Genotype by environment effects and selection for drought tolerance in tropical maize. I Two-mode pattern analysis of yield.** 1997. S.C. Chapman, J. Crossa and G.O. Edmeades. *Euphytica* 95: 1-9.
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***ENVIRONMENTAL AND GENETIC FACTORS AFFECTING GENOTYPE  $\times$  ENVIRONMENT INTERACTION AND QTL  $\times$  ENVIRONMENT INTERACTION***

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#### **CLUSTERING ENVIRONMENTS BASED GENOTYPE $\times$ ENVIRONMENT INTERACTION**

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#### **GENETIC RESOURCES CONSERVATION: REGENERATION AND COLLECTION**

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