# Theoretical and Applied Genetics

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Theoretical and Applied Genetics publishes original research in all key areas of modern plant genetics, plant genomics and plant biotechnology. All work needs to have a clear genetic component and significant impact on plant breeding. Theoretical considerations are only accepted in combination with new experimental data and/or if they indicate a relevant application in plant genetics or breeding. Preference is given to work on leading crop plants and manuscripts presenting innovative approaches.

Manuscripts on QTL mapping by any method (association mapping, linkage mapping etc.) require a minimum sample size N > 100, depending on the complexity of the genetic architecture and heritability of the trait and other important factors.

Studies based on field experiments need to be conducted in at least three test environments.

Studies on EST or SSR development as well as BAC library construction and validation will be considered for publication only if they present clearly the applications for plant breeding).

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