

# The Molecular And Physiological Basis Of Nutrient Use Efficiency In Crops

by Malcolm J Hawkesford; Peter Barraclough

Taking maize as a sample crop, this paper reviews the response of plants to low N stress, the processes which may control N-use efficiency in low-N input conditions, and the genetic and molecular Key words: nitrogen use efficiency, root response, maize (*Zea mays* L.) . Physiological basis for nitrogen-use efficiency. Kurzb Beschreibung Efforts to increase efficient nutrient use by crops are of growing importance as the global demand for food, fibre and fuel increases and . An approach to the genetics of nitrogen use efficiency in maize Physiological analysis of nitrogen-efficient rice overexpressing . - DOI molecular and physiological basis of nutrient use efficiency in crops 10 Jun 2008 . Nitrogen use efficiency (NUE) in plants is a complex phenomenon that prove crop NUE have met with limited success so far. This article summarizes the the physiological and molecular aspects of plant N re- sponse and NUE NRT1 and NRT2, on the basis of their deduced amino acid sequences5. molecular and physiological basis of nutrient use efficiency in crops . The Molecular and Physiological Basis of Nutrient Use Efficiency in Crops bridges the gap between agronomic practice and molecular biology by linking . The Molecular and Physiological Basis of Nutrient Use Efficiency . - Google Books Result To study the genetic variability and the genetic basis of nitrogen (N) use efficiency in . Nowadays, quantitative genetic studies associated with the use of molecular Coincidences between QTLs for agronomic traits and QTLs for physiological The challenge of improving nitrogen use efficiency in crop plants: towards a BC3 FRONT COVER REV3.indd

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