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Molina-Cano J.L. (ed.), Christou P. (ed.), Graner A. (ed.), Hammer K. (ed.), Jouve N. (ed.), Keller B. (ed.), Lasa J.M. (ed.), Powell W. (ed.), Royo C. (ed.), Shewry P. (ed.), Stanca A.M. (ed.).

Cereal science and technology for feeding ten billion people: genomics era and beyond

Zaragoza: CIHEAM/IRTA

Options Méditerranéennes : Série A. Séminaires Méditerranéens; n. 81

2008

pages 377

Article available on line / Article disponible en ligne à l'adresse :

http://om.ciheam.org/article.php?IDPDF=800883

To cite this article / Pour citer cet article

Kovács G. **Organic breeding of einkorn (Triticum monococcum ssp. monococcum).** In: Molina-Cano J.L. (ed.), Christou P. (ed.), Graner A. (ed.), Hammer K. (ed.), Jouve N. (ed.), Keller B. (ed.), Lasa J.M. (ed.), Powell W. (ed.), Royo C. (ed.), Shewry P. (ed.), Stanca A.M. (ed.). *Cereal science and technology for feeding ten billion people: genomics era and beyond.* Zaragoza: CIHEAM / IRTA, 2008. p. 377 (Options Méditerranéennes: Série A. Séminaires Méditerranéens; n. 81)



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Organic breeding of einkorn (*Triticum monococcum* ssp. *monococcum*)

G. Kovács

Department of Genetics, Agricultural Research Institute of the Hungarian Academy of Sciences, H-2462, Martonvásár, Brunszvik u. 2, Hungary

The basic axiom of organic farming is, as clearly indicated in the name, the ban of synthetic chemical products in agriculture to decrease their negative impact on the environment, and to improve food safety. Even if the sustainability of organic farming and its impact on human health and food safety are already accepted, the independence of the organic sector is still questionable. Unfortunately organic agriculture still depends strongly on seed industry, especially on conventional plant breeding. Increasingly conventional plant breeding programs are focused on bio- and genetechnology, thereby forcing the organic sectors reliance on conventional breeding. Moreover, conventional breeding efforts in the past have largely developed in response to the demands of intensive agriculture production. Alternatively, organic farming supportive of a philosophy promoting the self-regulating principles of the soil, the plants, and the animals, requires a distinct breeding program. On the other hand, organic farming want to increase farm biodiversity, and in many cases prefers to grow local landraces or traditionally used neglected crop species as a source of special heritage of functional foods. One of the best example is the einkorn in many countries. Organic einkorn production is already growing in several areas of Europe, and in the present lecture we would like to give a general overview of einkorn production and organic breeding in Central Europe.

Acknowledgements

The recent project was financed by the GAK Alakor_5 grant of the Hungarian Agency for Research Fund Management and Research Exploitation.