eucarpia

NOVEMBER | 13 TO 17 | 2006. LLEIDA (SPAIN) | CEREAL SECTION

Abstracts

CEREAL SCIENCE AND TECHNOLOGY FOR FEEDING TEN BILLION PEOPLE: GENOMICS ERA AND BEYOND

EUCARPIA
EUROPEAN ASSOCIATION FOR RESEARCH ON PLANT BREEDING
EUROPÄISCHE GESELLSCHAFT FÜR ZÜCHTUNGSFORSCHUNG
SSOCIATION EUROPÉENNE POUR L'AMÉLIORATION DES PLANTES

Eucarpia

November 13 to 17 2006
Lleida (Spain)

Abstracts

Cereal Science and Technology for Feeding Ten Billion People: Genomics Era and Beyond

Lleida, 2006

Genetic contribution of AmBev breeding program to the production chain of barley in Brazil

Caierão, E

Genetic breeding, Embrapa, Passo Fundo, Rio Grande do Sul, Caixa Postal 451, Brazil

AmBev contributed in an expressive way to development of brazilian barley cultivars and as a result of this breeding work, more than twenty cultivars were realised. The most importants were MN 698 (1999) and MN 716 (2004). MN 698 shows high malting quality, tolerance to pre-harvest sprouting and high grain yield, resulting in increasing of approximately 500 kg/ha in average, as compared to previous cultivars. It also shows high grain extract (above 80,5%) and protein content lower 12%. MN 716 shows the most balanced profile in quality tests at industrial scale among all cultivars realesed by Ambev and other breeding programs. It also shows a low B-glucan content, in agreement to malting specifications, what draw attention of the industrial sector. This trait, in addition to a high adaptation to different environments, represents an excelent perspective to expand barley crop in Brazil over ensuing years. Since 1970, AmBev's research contributed to improvement of 2 ton/ha in grain yield potential, 20 % in kernel plumpness, 2% in grain extract and reduction of 3% in protein content. This results are very significative and important to producers and malting plants in Brazil.

Topic area: Genetics and breeding for sustainable cereal production