## <<啤酒大麦品质的遗传和改良>>

### 图书基本信息

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#### 内容概要

Genetics and Improvement of Barley Malt Quality presents up-to-date deVelopments in ba rley production and breeding. The book is diVided into nine chapters, including barley production and consumption, germplasm and utilization, chemical composition, protein and protein components, carbohydrates and sugars, starch degrading enzymes, endosperm cell walls and malting quality, genomics, and malting quality improvement, and marker-assisted selection for malting quality. The information will be especially usefulto barley breeders, malsters, brewers, biochemists, barley quality specialists, molecular geneticists, and biotechnologists, rrhis book may also serve as reference text for post-graduate students and barley I esearchers. The authors flor each chapter are the experts and frontier researchers in the specific areas.

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### 作者简介

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#### 章节摘录

插图: Barley has many economic rises today.Barley is produced primarily 3Sanimal feed.For example.over half of the barley is used for livestock feedin the United States.Barley as feed has the same nutritive value as corn.Barley is high in carbohydrates.with moderate amounts of protein.calciumand phosphorus.It also has small amounts of vitamin B.The entire barleykerne "s used as feed after it has been steam rolled or gone through a grindingprocess.By products from the brewing process and malt sprouts are also used in livestock feed.The two-rowed barley is most often used for animal feedbecause it produces higher weight and superior kernel production.Barleyis also used in the production of beer and some wines.About 25% of thecultivated barley in the United States is used for malting , with about 80% used in beer production , 14% used in distilled alcohol production , and 6% used for malt syrup , malted milk , and breakfast foods.A small amount of thebarley is used for human food in the form of pearl barley or flour for porridge.Sometimes , barley is grown as a hay crop in some areas.Only the smoothvarieties and awnless varieties are used in hay production.Winter barley alsocan be used for hay if pasteurized before the stems start to elongate.Theamount of barley used for ethanol has been increased significantly in the lastdecade , especially in some EU countries ( www.biofeulreview.com ) .

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