ISBN: 978-602-097-239-8

gainst plant pathogens. Similarly, kinetin is reported to promote germination, growth evelopment and enhances cell division (Allen et al., 2002). Salicylic acid may influence a ride range of developmental and physiological processes, including seed germination and uit yield, transpiration rate, stomatal closure membrane permeability (Barkosky and inhellig, 1993; Elaleem et al., 2009), growth and photosynthesis (Khodary, 2004). Positive ffects on plant growth and root development due to their capacity to promote plant nutrient ptake and use efficiency when applied at low doses (Ertani et al., 2009).

Production practices

Production practices such as pruning treatment and reduction in fruit number gnificantly affect fruit size. For example, reducing the amount of fruit can increase the size. ruit packaging has also been applied in limited quantities in order to reduce the damage aused by disease or insects and in some cases this can hamper the development of color in ruits and vegetables, which in turn affects the quality of post-harvest. Cultivation of powentional and organically grown on the same farm showed the use of different agronomic affect. Ascorbic acid, α -, γ -tocopherols β -carotene was higher in plants cultivated in organic lums (Lombardi-Boccia et al., 2004).

Harvest and post harvest

Harvest should be completed during the coolest time of the day, which is usually in the arly morning, and produce should be kept shaded in the field. Mechanical damage also creases moisture loss (Bachmann and Earles, 2000). Most storage crops require low mperatures and high humidity, two factors that don't come together easily. Several others quire low humidity and low temperatures (Bachmann and Earles, 2000).

Postharvest losses vary greatly among commodities and production areas and seasons Cader, 2005). Estimates of postharvest losses in developing countries vary greatly from 1 to 0% or even higher (National Academy of Sciences, 1978). Biological (internal) causes of eterioration include respiration rate, ethylene production and action, rates of compositional ranges (associated with color, texture, flavor, and nutritive value), mechanical injuries, water ress, sprouting and rooting, physiological disorders, and pathological breakdown. The rate of cological deterioration depends on several environmental (external) factors, including mperature, relative humidity, air velocity, and atmospheric composition (concentrations of cygen, carbon dioxide, and ethylene), and sanitation procedures (Bartz and Brecht. 2002).

onclusion

Optimization of plant bioactive compounds can be done with proper management rangements such as cultivation, selection of species or varieties of plants, habitats, soil, asons and weather and how culture can lead to differences such as taste, odor, chemical and the amount of production generated. In addition, understanding of the nature and fect of product harvest handling practices are very important to do the best compromise to aintain the optimum condition of the product.