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短截后芒果花芽分化期间ABA含量的变化

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Changes of ABA Contents in Mango During Floral Differentiation after Headingback

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摘要

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摘要 利用芒果花枝短截后剪口芽在当年春季还能再次进行花芽分化并开花结果的现象,于2009年2月15日,对正在开花的结果母枝进行短截,每隔5d短截1次。研究花芽再次分化过程中剪口芽、叶片及附近韧皮部内植物激素脱落酸(ABA)含量的变化规律。结果表明:剪口芽、叶片内ABA含量在2月25日达到最高,分别为38262.09, 53223.52ng/gFW,韧皮部于3月2日达到最高(28222.12ng/gFW);3月7日,剪口芽、叶片和韧皮部内ABA含量降至最低,分别为9246.25, 23463.89,17865.34 ng/gFW。在整个花芽分化过程中,短截植株剪口芽、叶片及附近韧皮部平均含量分别为17170.83, 33525.89, 18528.08ng/gFW;对照植株剪口芽、叶片及附近韧皮部于3月2日达到最高,分别为37764.10, 32910.73, 24419.30ng/gFW,3月7日降至最低,分别为7367.98, 21567.21, 16 523.16ng/gFW,平均含量分别为14636.96, 29810.72, 16623.48 ng/gFW。

关键词: 芒果 花芽分化 结果枝短截 脱落酸

Abstract: The phenomenon that floral buds in Mango could still differentiate even if the flower brands were headed back in the same year. The flowering of bearing basal shoot was headed back on February 15, 2009 and then 5 days were done as so that.Abscisic acid(ABA) contents in buds, leaves and phloem were detected during floral bud differentiation. The result showed that: ABA contents in buds and leaves reached the maximum (38262.09 and 53223.52ng/gFW, respectively) on February 25, while ABA content in phloem reached the peak (28222.12ng/gFW) on March 2.ABA contents in buds, leaves and phloem decreased to the lowest (9246.25,23463.89and 17 865.34ng/gFW, respectively) on March 7. During floral bud differentiation, the average contents of buds, leaves and phloem were 17170.83,33525.89and 18528.08ng/gFW, respectively. ABA contents in buds phloem and leaves of the control plant reached the maximum (37 764.10, 32 910.73 and 24 419.30 ng/gFW, respectively) on March 2, and decreased to the lowest (7 367.98, 21 567.21 and 16 523.16 ng/gFW, respectively) on March 7, the average contents were 14636.96, 29810.72and 16623.48ng/gFW.

Keywords: Mangifera indica L. flower bud differentiation head back fruit branches abscisic acid(ABA)

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