

A view on parthenocarpy in cucumber

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The parthenocarpy in mean, formation of seedless fruits, is very important phenomenon for cucumber fruit production, especial in greenhouses.

Parthenocarpy is a genetic characteristic in cucumber. Gynoecious cultivars have high capacity for parthenocarpy. Parthenocarpy in cucumber is vegetative and facultative, so don't need stimulation factor but if recieve pollen, produce seedy fruits. Some of monoecious cultivars tend to parthenocarpy, too. Some of hormones and stimulation factors. may induce parthenocarpy in nonparthenocarpic cultivars. In primary experiment, no parthenocarpic fruit was seen in monoecious cultivars (RZ, Daminus). Stimulation of stigma by brush and GA_3 spray only caused to delay ovaries death. Pollination by strile pollens like normal pollens caused to fruit formation.