

Improvement of Fiber Quality by Distant Hybridization in the Green Cotton

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In order to improve fiber quality of green cotton, a wide hybrid was used between a green fiber cotton and Sea Island cotton. The results show that the hybrid F_1 plants were stable, but F_2 plants had large variation. By self-pollinating for advancing generations, we found that the lint percent and fiber length of green fiber cotton were both improved, but micronaire value and fiber color were difficult to increase. The fiber pigment and micronaire value are controlled by linked genes.