

***In vitro* Selection and characteristics of growth regulator-habituating Cell lines of *Lycopersicon peruvianum* Mill**

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Growth regulator-habituating cell lines of *Lycopersicon peruvianum* were isolated by stepwise selection in suspension cultured cells. Growth of unselected line was completely inhibited on MS medium without auxins and cytokines, while selected callus lines grew well. After subculturing on growth regulator-free medium for eight years, habituated-cell lines grew on MS medium without growth regulators well. The regeneration capacity of habituated-cell lines was maintained even after eight years. Some callus regenerated the shoot. Selected cell lines were more effective than the unselected control callus in growth on medium containing growth regulators.