Abstract
Embryogenic cell suspension (ES) are an ideal system for clonal micropropagation and gene transfer, but the lack of protocols for efficient regeneration of plants from them is, in many cases, the main obstacle to the implementation of these biotech. This paper analyzed ES and non-embryogenic cell suspensions obtained from banana CIEN BTA-03 (AAAA) and from its parental banana Williams (AAA), for selection of earlier somatic embryogenesis markers. Each suspension was analyzed throughout light microscope observations and kinetics of growth, was established based on the number of embryogenic and non-embryogenic cells and cell clusters. ES were 100 % viable with abundant embryogenic cells and cell clusters. Analysis of cellular composition and appearance of embryogenic cell suspensions suggest that several characteristics of the embryogenic cells and cell clusters, and from the cultured medium could be considered markers of early detection of embryogenic capacity of theses suspensions.

Keywords
Cell clusters, embryogenic markers, growth kinetic