Abstract
The goal of this research was to develop a protocol for the in vitro culture of Geophila macropoda. The work was conducted in Guácimo, Limón, Costa Rica between June 2006 and February 2007. For the in vitro establishment phase, the explants used were microcuttings and zygotic embryos. Bacterial contamination prevented the establishment of high percentages of plant material, whereas the use of embryos resulted in a response as high as 89%. For shoot proliferation, five concentrations of benzylaminopurine (BAP) were tested. The best results were obtained with 2 mg/l BAP with 13.4 new seedlings from an original vitroplant. Rooting was accomplished in a half Murashige & Skoog medium, without adding any plant growth regulator. During the acclimatization period the survival rate was 100%.

Keywords
"Mouse ear", micropropagation, Benzylaminopurine, cover crop.