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Break of dormancy and evaluation of the germination rate of the cerrado medicinal species: *Eriosema pycnanthum*

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Eriosema (DC) Desv. is a genre present in Africa and America. 30 species in Brazil 19 of which are Cerrado species such as *E. pycnanthum.* This species is a subcultural leguminous found in soils of the Iron Quadrangle of Minas Gerais and in the region of Itapecerica, where it is as natural cicatrizant. Although it is used in traditional medicine, there are no studies aimed the germinative effectiveness *in vitro* of this species. The seeds obtained in the field were disinfested with hydroaalcoholic solution (70%-1') followed by hypochlorite (1%-15') and then treated in KNO^3 (2%). The variables of number of groups, time in KNO^3, time at storage were defined by analysis of variables by statistical software SISVAR (Ferreira, 2011). As seeds were inoculated with or without the integument in tubes with MS medium supplemented with 30 g/L of sucrose and solidified with 6 g/L of agar at pH 5.7±0.1. It was evaluated if light (40 µmol, 45 days I in a 16-hour photoperiod affect the germination. Tetrazolium Bromide (1%) was used as a marker of the electron transport chain. Seeds with tegument for 24 hours.

Biography

José A R Neto is a PhD candidate with Biotechnology in the area of isolation of molecules with application in human health. He has completed his Master in Biotechnology, UFSJ, in the area of Isolation of molecules and bioprocesses applied to the environment and Bachelor in Biological Sciences is a Specialist in Environmental Management and Management in Forest Systems-UFLA-MG and international specialization by the Brazil/Argentina Center for Biotechnology in Biotechnology tools for the conservation, management, and analysis of plant genetic resources-CABBIO-Brazil-Argentina. He is an illustrator of books in the areas of Public Health and Parasitology. He has trained in research centers such as Fiocruz and Embrapa. He has experience in laboratory work, bioprospecting, obtaining, fractionation and use of natural extracts to combat *Culicidae*, pest identification, public health, cicatrizant biocomposites production, *in vitro* propagation of plant species, plant acclimatization, maintenance and multiplication *in vitro* of human tumor cell lines, besides the large areas of Bioethics, Entomology, Biochemistry, Microbiology, Cellular and Molecular Biology.

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