

**P-146**

**Evaluation of Alternative Products for Breaking Dormancy in Grapevine.**

Panceri, C. P.<sup>1</sup>; Santos, H. P.<sup>2\*</sup>

<sup>1</sup>Centro Federal de Educação Tecnológica de Bento Gonçalves, Brazil

<sup>2</sup>Embrapa Uva e Vinho, Brazil

Nowadays to improve the budbreak in grapevine hydrogen cyanamid has been used frequently as a guarantee for good production and quality. Although it is an effective product, its use has been

questioned because of its high toxicity degree. In search of a sustainable in the sector, the goal of this work was an analysis of an organomineral fertilizing and extract of garlic as alternative products for budbreak in grapevine. The experiment was conducted in Bento Gonçalves - RS, using 95 plants of cv. Chardonnay, at 12 years old, graft on Paulsen 1103 rootstock, trained in a Lira system. The treatments were applied in February 2007, at random design with 5 repetitions (plants), simulating the management and the dormancy that happen in tropical conditions. The plants were previously treated with Ethrel (1.5%) and after 15 days each plant was pruned in 8 cane with 10 buds each. These buds were submitted to the following treatments: 1) negative control (water); 2) positive control (hydrogen cyanamide-Dormex®) in doses of 2.5%, 5% and 7%; 3) fertilizing organomineral (Erger G®) in doses of 5%, 7% and 10% in mix with or without calcium nitrate in 10% or 20%, and 4) extract of garlic (Bioalho®) in the doses of 5%, 10% and 20% in a mix with or without mineral oil 2%. After the applications, the budbreak (green tip) was monitored every 3 days. The results point out that the organomineral fertilizer and the extract of garlic, with or without mineral oil, have positive effect on budbreak, comparing to the negative control. These products also promoted the same maximum levels of budbreak comparing to the positive control, being Erger G®5% + NCa 10% and Bioalho® 10% + OM 2% the best dosages of this alternative products. However, both the products had a delay of 12 days to get the maximum budbreak as observed with hydrogen cyanamid.

**Keywords:** *Vitis* sp., hydrogen cyanamide, extract of garlic, fertilizing organomineral.

\*Corresponding author: henrique@cnpuv.embrapa.br