

GERMINATION PROCESS UNDER THE EFFECT OF ANCU-DINCĂ TYPE BIO-PHYTO-MODULATORS FOR THE *PAULOWNIA* SPECIES (Thunb.) Stend.

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Abstract. Beside the conventional germination procedure, we promoted an alternative method, easy, and faster with the bi-fito-modulators Ancu-Dincă. In the experiments presented in this article were tracked the evolution process of germination seed of *Paulownia* species using bio-phyto-modulators type AncuDincă DEA and DIEE that were attached initial seed bags and then attach vessel sprouting. Bio-phyto-modulators are discoveries that provide intelligent solutions to improve lives, bringing balance in processes that exist in nature. The results of the experiments presented in this paper confirm the beneficial contribution of the Bio-phyto-modulators AncuDincă to the process of germination and guide the author of this paper to make the appropriate use of them, properly correlating their use with the corresponding classes of laboratory condition.

Keywords: bio-phyto-modulator DEA, bio-phyto-modulator DIEE, day, energize, process

INTRODUCTION

The germination process of softwood species seeds it is difficult, and is during long time. The main source for the purchase of seeds are nurseries, special attention being given to vigorous and healthy specimen with high biological value. Semicer material can be also collected in parks and botanical gardens, after identifying ecotypes. An important source of seeds can be international exchange between botanical garden or arboretum gardens type (Stanica et al., 2002). An important factor that can influence the germination capacity and vigor of seeds is their age. Because during aging have been important changes, starting such as accumulation layer growth, metabolic degradation of coatings, denaturation of proteins and lipids (Todoran, 2014).

The nutrients in the embryo seeds which are necessary for proper functioning of the respiratory system, which are usually found in small quantities are completely used during breathing plant, and when dry seeds they can not be replaced due to lack of free water which allow hydrolysis and transport between cells (Bucurescu et al, 1992).

Water allows the hydrolysis and transport between cells. We can highlight energizing properties of water during the process of germination using new and affordable technology, the Ancu-Dincă-Bio-Phyto-Modulators type DIE. and DEA. Bio-phyto type modulators works in the fields and subtle, act as resonators, absorb universal vibration (Dincă, 2011). Known physical fields of the Earth can not reply exigency of transport energy levels are so fine without considering the existence of a torsion field, subtle. Known as the axion field, spinal, or microleptic field was highlighted by Elie Cartan, in 1922, when extended Einstein's general relativity to include fine twist space-time continuity. Is considered a weak field, has been neglected for a long period of time. Torsion fields carry information, and can change some characteristics of substances and objects. Big problem understanding the mechanism of energy transfer is the transport infrastructure (Cartan, 2012).

Water, with all the elements it contains, is the interface between the environment and support cells and biological fields. Water is a dynamic, highly mobile, with its own memory, connected to the universal memory, able to transmit vital information of living cells. Studies have shown that water exists in many forms and has specific properties. Water is free mobility within the unit cell and from one cell to another, weak intermolecular forces acting only (Eisenberg, 2005).

Water is the solvent, a dispersion medium, involved in osmotic exchanges in biochemical processes, participate in making photosynthesis, and ensure growth. It is found in all parts of the cell. Not dissolve crystalloid called liquid crystal crossing membranes basic living systems. It is not transferred by osmotic exchange between cell membranes and the external environment. A large amount of intracellular water has a high degree of ordering.

The orderly arrangement has an important role in achieving cellular processes (excitation, division, secretion, contraction). Existing water in living systems is structured in the form of liquid crystals, which act as modulators of power, creating energy compatible with the energy of life. Elements crystals as an accurate material creates a spiral with own bio-field and life (Dinca, 2010) (Interactive Energy and Information in Human Body).

MATERIAL AND METHOD

The research was conducted in the Laboratory of Biophysics University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. The research method used the standard method of germination and Ancu-Dincă bio-phyto-modulators type DIEE and DEA were applied.

We used as biological seed material of Paulownia species. From the pure seed, 4 repetitions with 100 seeds were randomly selected (randomized) and put into a little bag 3 days, and each 4 bag was applied with a bio-phyto-modulators type DIEE and 4 bag were applied DEA, and separately were kept 4 bags of seeds for the control group (Fig. 1).

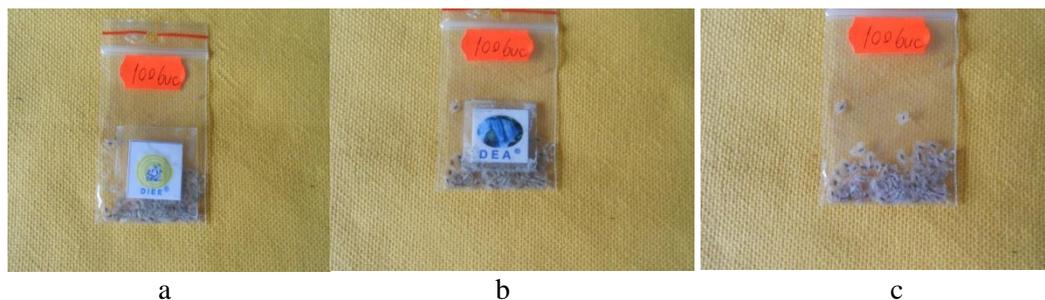


Fig.1. (a) Paulownia seeds bag with bio-phyto-modulator DIEE; (b) Paulownia seeds bag with bio-phyto-modulator DEA; (c) Paulownia seeds bag control

After three days of energization the seeds were arranged as evenly as possible on the surface of the wet germination. A round shape Linhardt vessel was used, having a diameter of 20 cm and a height of 5 cm. On the edge of the cover glass have attached bio-phyto-modulators type DEA and DIEE during the germination process (Fig. 2).



Fig. 2 *Paulownia* seed germinator which was applied bio-phyto-modulator DIEE

Studies performed on germination were obtained over a period of time of 19 days, four repetitions, at ambient temperatures between 20 and 30 °C (Booner, 2008). Seeds were monitored during the experiment and daily recordings were made to ensure that the humidity is the right one.

RESULTS AND DISCUSSION

The results obtained are presented in graphs and tables below, followed by interpretation. After a period of 9 days of germination the sprout came first (Fig. 3). On the first day of registration with DEA energized group has a positive response, net considerable value to control, especially to DIEE not yet germinated. During the 14 days of recordings was observed evolution germination process (Fig. 4).



Fig. 3 *Paulownia* seed germinator which was applied bio-phyto-modulator DEA

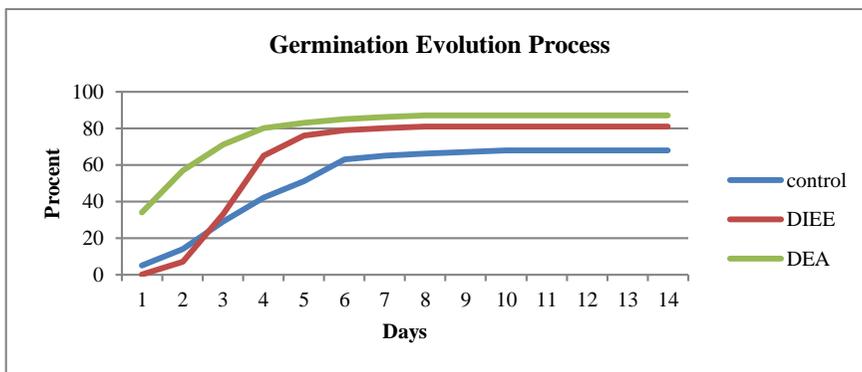


Fig. 4 Germination evolution process of *Paulownia* species seeds.

Made this chart for monitoring the evolution germination process can be seen that lot energized with bio-fito-modulator DEA starts with a large percentage of seeds that germinate from the first day of recording, and the next days having the same trend accentuated. After the 7th day began to enter into a ceiling of linearity, but higher net value as compared to the other groups. Lot energized with bio-phyto-modulator DIEE has a delay of one day compared to the control, and a considerable number of seeds germinated low, only after the third day began to have accelerated evolution, steep, and the ceiling of linearity begins only after 8th day. The control group has a slow start, with a relatively equal number of seeds that germinate day, an upward trend, but linear. Linearity ceiling barely touches the 10th day. By comparison can be seen on the graph of evolution, as early as 7th days, we already have lots energized seedlings in high percentage. Thus the chances of growth and development are superior in number of days earned in addition to the control group. If the 5th days of registration is the difference over the control group 51% of the seeds germinated in group energized with DEA viable seedlings have a few days of life in 83%, and in group DIEE energized with 76%. Compared with the control group that some seeds sprout, plants from seed lots energized develop. This beneficial effect on the graph we can note from the early days that we have bio-phyto-modulators DEA and DIEE the seeds, water and implicitly that plays a fundamental role in the growth and development of seedlings below. The Germination capacity in the previous described two cases were compared to the control.

Table 1.

Germination capacity (percentage) of *Paulownia* seed sample subject to the bio-fito-modulators DIEE and DEA, compared to the control seed lot.

Number of repetitions	The germination capacity sample –with DIEE	The germination capacity sample –with DEA	The germination capacity sample – control
1	82	87	68
2	83	86	68
3	80	87	69
4	79	88	67
Total	324	348	272
Average	81	87	68

According to Table 1, the highest germination capacity is obtained when lots were energized with DEA, followed by a percentage as good with lots DIEE energized. In both cases the differences to control the DEA 19%, and 13% DIEE result due differentiated type

resonators use. Percentage results clearly show that there can be no significant errors, which are very small.

CONCLUSION

In experiment influence germination factor is the type of bio-phyto-modulator applied *Paulownia* seeds. Devices for charging and energizing type DIEE and DEA have a general stimulating effect on the process of germination. The best results were obtained with 87% seed lots energized with bio-phyto-modulators DEA, which impregnates water structure with harmonious vibrations that will be used for seeds and young seedlings fluids still beneficial influence structures and functions. Action bio-phyto-type modulator DIEE lead to a rate of 81% of seeds germinated. Considering that plants and seeds and a large proportion of water in their structure, and that all specific physiological processes require a liquid medium, we understand the importance of using these bio-phyto-modulators. In other experimental conditions were purpose other species as inducing germination that were obtained results come to confirm stimulated germination bio-phyto modulators with DEA and DIEE reaction devices are not subject to the plant species used (Sîncrăian,2013), (Szabo, 2010) . The results of the experiments confirm the beneficial contribution of the bio-phyto-modulators to the germination process and won the extra days of life in young seedlings.

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