PLANT IN VITRO ART

(BİTKİLERLE VİTRO SANAT)

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ABSTRACT

In this study, plant biotechnology and art are handled together, because art is the most powerful means of bridging differences. This study aims to bring plants of different ecological environments together in various designs by artistic approaches.

Keywords: Plant biotechnology, Art, Design

ÖZ

Sanat farklı dünyaları birleştirmeye kullanılabilecek en kuvvetli araç olması sebebi ile bu çalışmada bitki biyoteknolojisi ile sanat aynı çerçevede ele alınmıştır. Değişik ekolojilere ait bitki türlerinin in vitro’da sanatsal yaklaşılarda farklı tasarımlarda buluşturulması hedeflenmiştir.

Anahtar Kelimeler: Bitki biyoteknolojisi, Sanat, Tasarım

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1. INTRODUCTION

Plant \textit{in vitro} art arises from a combination of science, imagination and skills in an \textit{in vitro} environment. It ensures science an artistic view of life. Studies in this context aim to touch people by getting out a bit of the pure and experimental features of science by means of art. Thus, science and scientific words will be made clearer in daily life. Science fields will have a chance to become better known by an \textit{in vitro} art approach [1].

Today, it is popular to develop new designs with different types of plant species, materials, objects and culture vessels by handling \textit{in vitro} plantlet systems with an aesthetical aim. Presented to the people who want to move away from city-life, stressful business life and monotony and who have as yet had no opportunity to look after plants, \textit{in vitro} plantlets give a chance to move from laboratories to indoors and also offer aesthetic pleasures as well as their potential in the marketplace on account of their wide product range [1].

This study aims to handle the plant biotechnology and art together and to bring plants of different ecological environments together in various designs by artistic approaches. In addition, this study is an original work and contains new words for the literature.

2. MATERIAL AND METHODS

\textit{In vitro} plants of different species were designed with various materials, objects and culture vessels \textit{in vitro} environments and sterile conditions for establishing the \textit{in vitro} aqua forest, \textit{in vitro} parks and gardens, \textit{in vitro} flowering, \textit{in vitro} glass design works (Figure 1). In addition, various plant species grown \textit{in vitro} and transferred outdoors were used in \textit{ex vitro} open terrarium (Figure 2) and \textit{ex vitro} closed terrarium (Figure 4) works. Also depending on plant growth regulators and nutrient medium composition, some visual beauties can be obtained \textit{in vitro} conditions as in daffodil plantlets (Figure 3) [1, 2].

3. RESULTS AND CONCLUSION

The study we work on gives us the opportunity for dealing with science and discovering amusing things in some of the works we do [1].

The “\textit{In Vitro Art}” concept can be varied and extended depending on the pleasures, manner and imaginations of people, and it can develop product range of firms dealing with plant tissue culture.

After in a certain period of time, medium gets dry. Therefore, moving plantlets from \textit{in vitro} terraria to outdoors can ensure their permanency. Implementation of this process can be explained by developing a user guide.

Terraria ensure both aesthetics and ecosystem. They are different from classical terraria because plantlets are grown \textit{in vitro} conditions, and also they ensure study on the tested plants free from pathogens.
Figure 1. Some samples for plant *in vitro* art [1]
Figure 2. Some samples for *ex vitro* open terrarium [1]

Figure 3. Daffodils were developed *in vitro* conditions: a: Heart shaped leaves *in vitro*; b: Ballerina legs *in vitro*; c: Sisterhood of narcissus bulblets *in vitro* [2]
Figure 4. Ex vitro closed terrarium [1]

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REFERENCES


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