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**Evaluation of The Trivedi Effect® - Consciousness Energy Healing Treatment on the Growth and Yield of Plant Stem Cells**

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This study investigated the effect of the Consciousness Energy Healing (The Trivedi Effect®) Treatment on the plant stem callus of Mandukparni (*Centella asiatica*), Katsarika (*Baleria cristata*), and Amla (*Phyllanthus emblica*). Each stem cell callus and MS liquid media were divided into two parts. One part of each was denoted as control. The other part was received the Consciousness Energy Healing Treatment by a renowned Biofield Energy Healer, Dahryn Trivedi and was defined as the Biofield Energy Treated sample. The weight of mandukparni callus was significantly increased by 8.5% in Biofield Energy Treated group (304.5 mg) compared to control group (280.6 mg). Furthermore, weight of katsarika stem cell callus was significantly increased by 38.6% in Biofield Energy Treated group (448.7 mg) compared to control (323.7 mg). The weight of amla stem cell callus was significantly raised by 41.4% in the Biofield Energy Treated group (403 mg) compared to control group (285 mg). Overall, the data suggest that there was a significant growth and yields of plants callus after treatment with the Biofield Energy. Therefore, The Trivedi Effect® - Consciousness Energy Healing approach could be useful for the production of more active constituents present in the three plants callus in a cost-effective manner and can be useful for food and dietary supplements, flavoring and coloring agents, cosmetics and fragrance products.

**Keywords:** Consciousness Energy Healing, The Trivedi Effect®, *Centella asiatica*, *Baleria cristata*, *Phyllanthus emblica*, Liquid MS media

**ABBREVIATIONS**

NCCIH: National Center for Complementary and Integrative Health, CAM: Complementary and Alternative Medicine, MS: Liquid Murashige and Skoog medium, NAA: α-naphthaleneacetic acid, IAA: Indole-3-acetic acid, 2,4-D: 2,4-dichlorophenoxyacetic acid, BAP: 6-benzylaminopurine, KIN: Kinetin

**INTRODUCTION**

The trends of utilizing natural products are increasing nowadays. The use of medicinal plants in most developing countries, for the maintenance of good health and welfare, has been widely noticed (Ji et al. 2009). Further, an increase the use of medicinal plants in the industrialized societies has been related to the development of several drugs and chemotherapeutics from plant species for rural herbal preparation. Human beings have been utilizing plants for basic preventive and curative health care since time immemorial (Farnsworth and Soejarto, 1991). Plant stem cells may be ranked among the most important cells for human well-being. Research by many labs in the last decades has uncovered a set of independent stem cell systems that fulfill the specialized needs of plant development and growth to human skin as one of the first plant sorts,
which are used in cosmetology and esthetic dermatology (Morus et al. 2014). Considering the importance of plant stem cells callus culture for the production of more active constituents in cost-effective manner authors designed this experiment using three plant stem cells callus viz. mandukparni (Centella asiatica), katsarika (Barleria cristata) and amla (Phyllanthus emblica). Centella asiatica Linn. commonly known as mandukparni or brahmi-manduki, is a medicinal herb widely used as a brain tonic. It is also used for the treatment of asthma, bronchitis, dyspny, elephantiasis, gastric catarrh, kidney troubles, leucorrhoea, skin disease and urethritis Kakkar (1988), with antibacterial, anti-feedent, ant-filarial, anti-stress, anti-tuberculosis activities and wound healing properties (Chakraborthy et al. 1996; Srivastava et al. 1997). The main active constituent of centella contains asiaticoside and madecassoside belong to triterpenoid (Chakraborty et al. 1996; Srivastava et al. 1997). It has also antidepressant and wound healing activities (Kimura et al. 2008). Barleria cristata L. plants are used for boils, bee bite, and toothache Ahmed (1990). The plant also has potential antidiabetic (Suba et al. 2004), anti-inflammatory effect (Suba et al. 2002), and antibacterial activity in vitro (Shukla et al. 2011). Amla is a nutritious and an important dietary source of vitamin C, minerals, and amino acids. A lot of products are prepared from amla fruits to exploit nutritional and medicinal qualities (Mitra and Pathak, 2008). The fruits are used for making pickles, squash, candied fruit, mouth freshener, shampoos, hair dye and hair oils etc. It also possesses antiviral (El-Mekkawy et al. 1995), antimicrobial Ahmad (1998), anti-inflammatory, immunostimulant, adaptogenic, hepatoprotective, pancreas-protective and hypolipidemic properties (Nayak et al. 2010).

National Center for Complementary and Integrative Health (NCCIH), allows the use of Complementary and Alternative Medicine (CAM) therapies like Biofield Energy as an alternative treatment in the healthcare sector. About 36% of US citizens are regularly using some form of CAM (Barnes et al. 2004), in their day-to-day life. It is postulated that the Biofield can exist around the human body and evidence was found using electromyography, electrocardiography, and electroencephalogram (Movaffaghi and Farsi, 2009). Thus, a Biofield Energy Healing Practitioner has the significant ability to harness the energy from the environment and can transmit it into any object (living organism or non-living material) around the globe. The object(s) always receives the energy and responds in a useful way that is called “Biofield Energy Treatment”. This process is known as “Biofield Energy Healing Treatment”. Biofield Energy Healing has been approved as an alternative method that has an impact on various properties of living organisms in a cost-effective manner (Yount et al. 2013; Garland et al. 2013). The Trivedi Effect® - unique Biofield Energy Treatment has been known to alter the response in a wide-spectrum field in living organisms and non-living systems viz. skin health (Meagher et al. 2017; Dodon et al. 2017; Kinney et al. 2017; Singh et al. 2017), materials science (Trivedi and Tallapragada, 2008; Trivedi et al. 2015; Dabhade et al. 2009), agriculture (Sances et al. 2013; Lenssen (2013), microbiology (Trivedi et al. 2015a,b,c) biotechnology (Patil et al. 2012; Nayak and Altekar, 2015). Based on the excellent outcome of the Biofield Energy Treatment, the authors designed this study to investigate the impact of the Biofield Energy Healing treatment on three plant cells callus viz. Centella, Katsarika, and Amla.

MATERIALS AND METHODS

Chemicals and Reagents

Liquid Murashige and Skoog medium (MS) was procured from Sigma, USA. Serological pipettes and T75 culture flask were procured from Thermo Fisher Scientific, USA. Petri dish and 200 μL tips were purchased from Taron, USA. All the other chemicals used in this experiment were analytical grade procured from India.

Plant Callus Suspension Culture

Healthy leaflet of the mandukparni (Centella asiatica), katsarika (Barleria cristata) and amla (Phyllanthus emblica) plants were collected inappropriately sized and surface sterilized. Fine cuts were made in the leaf (wound induction) and were cultured on MS (Murashige and Skoog, 1962) basal medium, gelled with agar. The cultures were incubated in a culture room at 25 ± 2°C with a photoperiod of 16 hours at 3000 lux light intensity provided by cool white fluorescent tubes. After some days, callus induction was observed. Suspension culture was made from the friable creamish calli and was transferred to T75 culture flasks in liquid MS media supplemented with different phytohormones like cytokines, 6-Benzylaminopurine (BAP) with 5.0 mg/L and kinetin (KIN) with 0.5 mg/L concentration) and auxins like α-naphthalene acetic acid (NAA) with 2.0 mg/L and 2,4-dichlorophenoxyacetic acid (2,4-D) with 2.0 mg/L. Following the treatment, the above T-75 flasks were incubated till day 7 in a shaking incubator (120 rpm) under the photoperiod of 16 hours at 3000 lux light intensity provided by cool white fluorescent tubes. The incubation conditions were similar to that of untreated cells. On day 7, the flasks were observed and visualized under phase contrast microscope for monitoring cell growth and photomicrographs were captured at 200X magnification. Wet weight of the callus was also taken after day 7.
**Consciousness Energy Healing Treatment Strategies**

The aliquots of mandukparni (*Centella asiatica*), katsarika (*Barleria cristata*) and amla (*Phyllanthus emblica*) stem cells callus were cultured in T-75 cell culture flasks and divided into two parts. The control group was treated with sham healer for comparison purpose. The sham healer did not have any knowledge about the Biofield Energy Treatment. Plant callus and MS liquid media were received Biofield Energy Treatment (known as The Trivedi Effect® - Energy of Consciousness Treatment) by Dahryn Trivedi under the laboratory conditions for ~5 minutes through the Healer’s unique Energy Transmission process remotely. Biofield Energy Healer in this study did not visit the laboratory, nor had any contact with the plant callus and M.S. liquid media. After that, the Biofield Energy Treated and untreated samples were kept in similar conditions.

**Experimental Design**

The plant callus of *Centella, Barleria, and Phyllanthus* was divided into two groups. One was the control group and another group was considered as Biofield Energy Treated group. Both the groups were assessed at two-time points viz. at day 0 and day 7 and compared with respect to the respective control group.

**RESULTS AND DISCUSSION**

The different plant calluses were cultured and received Biofield Energy Treatment (known as The Trivedi Effect®). After the Biofield Energy Treatment, the effect of Biofield Energy Healing Treatment on the growth of centella, katsarika and amla callus was observed microscopically at Day 7 and compared the data with day 0, as demonstrated in Figures 1-3.

**The effect of Biofield Treatment on Mandukparni (Centella asiatica) Callus Growth and Yield**

The weight of centella callus in the control group was 280.6 mg and it was significantly increased by 8.5% in the Biofield Energy Treated group (304.5 mg), shown in Table 1. The representative photomicrographs of centella callus growth after seven days of incubation are shown in Figure 1. This improvement of callus weight in the Biofield Energy Treated group could be due to The Trivedi Effect® - Consciousness Energy Healing Treatment. Callus from leaf explant of *C. asiatica* is a good source for the production of antimicrobial compounds through bioreactor (Bibi et al. 2001).

![Figure 1: Representative photomicrographs (200X) of mandukparni (Centella asiatica) stem cell callus on day 0 and day 7 in control and Biofield Energy Treated groups](image-url)
Centella asiatica-derived ingredients were used as cosmetic products to the skin and hair (Bylka et al. 2013). It is assumed that the increased callus content after consciousness energy healing treatment to the Centella asiatica could be a very cost-effective approach to produce more active constituents as compared to control callus.

The Effect of Biofield Treatment on Katsarika (Barleria cristata) Stem Cells Callus

The weight of katsarika (Barleria cristata) stem cells callus was significantly increased by 38.6% in the Biofield Energy Treated group (448.7 mg) compared to the control group (323.7 mg), shown in Table 1 and the representative photomicrographs are shown in Figure 2. This improvement of callus weight in the Biofield Energy Treated group might be due to The Trivedi Effect® - Biofield Energy Healing Treatment. The indigenous system of medicine, Barleria species is used in stomach disorders, urinary affections, ulcer, and fever (Khare et al. 2004). The leaf juice is also used against fever, toothache, piles, lacerated soles of feet and pimples, expectorant, whooping cough, and as diaphoretic. Apart from this, it has wide spectrum of pharmacological activities viz. antibacterial, antifungal, antiviral, anthelmintic, antifertility, antioxidant, antidiabetic, anti-inflammatory, cytoprotective, hepatoprotective, and many more (Banerjee et al. 2012).

The effect of Biofield Energy Healing Treatment on Amla (Phyllanthus emblica)

The growth and yield of Amla (Phyllanthus emblica) plant callus after Biofield Energy Healing Treatment by a renowned Biofield Energy Healer, Dahryn Trivedi are presented in Figure 3. Amla callus flasks were observed and visualized under phase contrast microscope for cell growth and some representative photomicrographs were captured at 200X magnification on day 0 and day 7. The weight of amla callus in the control group was 285 mg, while it was significantly raised by 41.4% in the Biofield Energy Treated group (403 mg), shown in Table 1. Overall, the data showed 41.4% increased the growth of amla plant callus as compared to the untreated control group. Ayurveda health system in the world appreciates the uses of amla to treat a host of diseases and to promote a positive health. It has several pharmacological properties such as antioxidant, anticancer, antitumor, anti-genotoxic, and ant carcinogenic effects. It is considered to be a safe herbal medicine without any
adverse effects (Singh et al. 2011). In this experiment, after Biofield Energy Treatment, the content of amla callus was significantly increased as compared to the control group. So, it can be concluded that the Biofield Energy Treatment could be the cost-effective approach to produce more active component.

CONCLUSIONS

The experimental data showed that the Biofield Energy Healing Treatment has significantly improved the growth rate and yield of Mandukparni, Katsarika, and Amla stem cells. The weight of mandukparni (Centella asiatica) stem cell callus was significantly increased by 8.5% in the Biofield Energy Treated group compared to the control group. Furthermore, the weight of katsarika (Barleria cristata) stem cell callus was significantly increased by 38.6% in the Biofield Energy Treated group compared to the control group. The weight of amla (Phyllanthus emblica) stem cell callus was also significantly increased by 41.4% in the Biofield Energy Treated group compared to the control group. Overall, the data suggest that the Consciousness Energy Healing

| Table 1: Effect of Biofield Energy Healing Treatment on wet weight of the callus. |
|-----------------------------|-----------------|-----------------|-------------|
| Callus | Treatment | Weight of callus (mg) | % Increased |
| Centella | Control | 280.6 | 0.0 |
| | Biofield Treated | 304.5 | 8.5 |
| | Control | 323.7 | 0.0 |
| Katsarika | Biofield Treated | 448.7 | 38.6 |
| Amla | Control | 285 | 0.0 |
| | Biofield Treated | 403 | 41.4 |

Figure 3: Representative photomicrographs (200X) of Amla (Phyllanthus emblica) callus on day 0 and day 7 in untreated and Biofield Energy Treated groups.
Treatment by a renowned Biofield Energy Healer, Dahryn Trivedi has outstanding capacity to increase the plant stem cell callus growth, which could be used to produce a very high quality and yield of the most valuable natural products from different medicinal plants, which can be useful as anti-inflammatory, immunostimulant, adaptogenic, hepatoprotective, and anticancer effects. Besides, The Trivedi Effect® can also be useful for several industrial applications such as cosmeceuticals, nutraceuticals, pharmaceuticals, food, dyes, and fragrances industries.

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