



بهترین

ششمین کنگره ملی گیاهان دارویی

تهران - ۱۹ و ۲۰ اردیبهشت ۱۳۹۶

6th National Congress on Medical Plants

گواهی می شود مقاله با عنوان

The effect of Sucrose of the Production of Metabolites and Physiological Traits in Black Cumin
(Nigella Sativa L.) Cell Culture.

ارسال شده توسط

صادق عنبرستانی، علیرضا رضازاده، آیت الله رضایی

در ششمین کنگره ملی گیاهان دارویی که در تاریخ ۱۹ و ۲۰ اردیبهشت ماه سال ۱۳۹۶ توسط شبکه ملی پژوهش و فناوری گیاهان دارویی با مجوز پایگاه استنادی علوم جهان اسلام (ISC) و کد اختصاصی ۹۶۱۷۰-۲۰۷۰۳-۲۰۷۰۳، در مرکز همایشهای آدینه تهران برگزار گردید، به صورت پوستر ارائه شده است.

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شبکه ملی پژوهش و فناوری
گیاهان دارویی

The effect of sucrose on the production of metabolites and physiological traits in black cumin (*Nigella sativa* L.) cell culture.

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Abstract:

Nigella Sativa medicinal plants being used so far away from past time to now. This herb is used to treat many diseases such as asthma, diabetes, cough, inflammation, cancer, epilepsy. So finding a new method to increase its constituents is very important. tissue culture is the Perfect replacement to growth and proliferation of medicinal plants and their effective production. In this study, physiological and phytochemical traits were investigated at sucrose concentrations of 30, 45 and 60 grams per liter on cell culture *Nigella sativa*. The carbon source has controlled the synthesis of many compositions and functions as building blocks of macromolecules and evolutionary processes in cells. The results showed that sucrose increased H₂O₂ and malondialdehyde, protein and decrease Peroxidase, Polyphenol oxidase Compared to the control sample at high concentration. Sucrose associated with the plant metabolism and evolutionary processes. So carbon sources have important role on the growth and morphogenesis of plants by different ways of using the osmotic potential influenced on cell division and degree of cell morphogenesis.

Key words: *Nigella Sativa*, Sucrose, Physiological and Phytochemical traits, cell culture.

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