

Seeds Of Destruction: The Science Report On Cancer Research

Review on Clinical Trials of Black Seed (*Nigella sativa*) and Its Active Constituent, Thymoquinone

Alireza Tavakkoli¹, Vahid Mahdian², Bibi Marjan Razavi³ and Hossein Hosseinzadeh^{4,*}

¹ Department of Pharmacognosy, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

² Student Research Committee, School of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran

³ Targeted Drug Delivery Research Center, Department of Pharmacodynamics and Toxicology, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

Key Words

black seed, clinical trials, diseases, *Nigella sativa*, safety, thymoquinone

Abstract

Objectives: *Nigella sativa* (black seed or black cumin), which belongs to the Ranunculaceae family, is an annual herb with many pharmacological properties. Among its many active constituents, thymoquinone (TQ) is the most abundant constituent of the volatile oil of *Nigella sativa* (*N. sativa*) seeds, and it is the constituent to which most properties of this herb are attributed.

Methods: PubMed-Medline, Scopus, and Web of Science databases were searched to identify randomized control trials (RCTs) investigating the therapeutic effects of *N. sativa* and/or TQ. In this review, we investigated the clinical uses of *N. sativa* and TQ in the prevention and the treatment of different diseases and morbidity conditions in humans.

Results: Black seed and TQ are shown to possess multiple useful effects for the treatment of patients with several diseases, such as inflammatory and auto-immune disorders, as well as metabolic syndrome. Also, other advantages, including antimicrobial, anti-nociceptive and anti-epileptic properties, have been documented. The side effects of this herbal medicine appear not to be serious, so it can be applied in clinical trials because of its many advantages.

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Conclusion: Some effects of *N. sativa*, such as its hypoglycemic, hypolipidemic and bronchodilatory effects, have been sufficiently studied and are sufficiently understood to allow for the next phase of clinical trials or drug developments. However, most of its other effects and applications require further clinical and animal studies.

1. Introduction

Nigella sativa (black seed or black cumin), which belongs to the Ranunculaceae family, is an annual herb with many pharmacological properties [1]. The use of *N. sativa* (NS) seeds and oil in traditional remedies goes back more than 2000 years, and the herb is described as 'the Melanion' by Hippocrates and Dioscorides [2]. Black seeds and their oil have a long history of folklore usage in the Indian and the Arabian civilizations as food and medicine and have been commonly used as treatment for a variety of health conditions pertaining to the respiratory system, digestive tract, kidney and liver functions, cardiovascular system, and immune system support, as well as for general well-being [3, 4]. NS contains many active components, such as thymoquinone (TQ), alkaloids (nigellidines and nigellidine), saponins (alpha-hederin), flavonoids, proteins, fatty acids, and many others, that have positive effects in the treatment of patients with different diseases [5, 6]. TQ is the most abundant constituent in the volatile oil of NS seeds, and most of the herb's properties are attributed to it. Cell culture studies and animal models have indicated

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*Corresponding Author
Hossein Hosseinzadeh, Pharmaceutical Research Center, Department of Pharmacodynamics and Toxicology, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran.
Tel: +98-51-1881-0642. Fax: +98-51-1882-3251
E-mail: hosseinzadeh@pharm.msu.ac.ir

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Apolipoprotein E4 (apoE4) is the strongest genetic risk factor for Alzheimer's disease. Despite nearly 25 years of research, the mechanism by which apoE4. Read the latest medical research on risk factors for cancer, cancer symptoms, treatments and more. Follow all of ScienceDaily's latest research news and top science headlines! Nano-Size Packets of Genetic Code to Seed Cells formation and subsequent destruction of cells with an extra nucleus, but that read more. NCI's Dictionary of Cancer Terms provides easy-to-understand definitions for In medicine, the removal or destruction of a body part or tissue or its function. Some cancers generate the seeds of their own destruction. Ten years ago, researchers discovered that certain random mutations that cancers returning after treatment. And our scientists recently discovered that some tumours contain the seeds of their own destruction. Tumors contain the seeds of their own destruction. has been one of the most startling and promising developments in cancer research for some time. . Ed Yong is a staff writer at The Atlantic, where he covers science. otherwise you're doomed to head on the path of self-destruction. . "as I do not believe GMO scientific research has been carried out long enough .. "no validated reports of ill effects in humans from GM food. . You can NOT build your own perfect kingdom on the bones of the cancer patients, kids and babies included. Cancer of Corruption, Seeds of Destruction: The Monsanto GMO . the scientific comments submitted by Member States and the report of the. This research is published today (Thursday) in Science. ENDS. For media enquiries contact the Cancer Research UK press office on Buy Seeds of Destruction: The Hidden Agenda of Genetic Manipulation First Edition surrounding the practice of genetic modification as a scientific technique. . Paperback: pages; Publisher: Global Research; First Edition edition (30 Nov. . So GMO potatoes caused cancer in lab animals - people should know right?. What do researchers know -- and what do they still need to know to stop metastasis? that allow metastatic cells to seed and grow new tumors and how to stop that spread. Here . These circulatory river banks protect the tumor cells from destruction by the immune . Fiscal highlights & Annual Reports. Cancer Research UK explains how immune cells could tackle What we've found for the first time is that tumours essentially sow the seeds of their own destruction. Writing in the journal, Science, he describes how, in two lung cancer . Report. Show 2 more replies. wistfulmemory 3 Mar

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