Chapter 37
Pharmacology and Phytochemistry of Coriander

Sonia Singh

https://orcid.org/0000-0003-1503-2745

GLA University, Mathura, India

Nitin Agrawal

https://orcid.org/0000-0003-4637-0608

Faculty of Pharmacy, Raja Balwant Singh Engineering Technical Campus, India

Isha Mishra

GLA University, Mathura, India

ABSTRACT

Coriander, named as Coriandrum sativum Linn, belongs to the family Umbelliferae and is one of the most popular and well-known spices/condiments and herbal medicines. The essential oils and fatty oils are the two major active chemical constituents present in the plant. The other minor ingredients found to be present are monoterpenes hydrocarbons i-e limonene, γ-terpinene, α-pinene, p-cymene, borneol, citronellol, camphor, geraniol, and geraniol acetate and abd heterocyclic components such as pyrazine, pyridine, thiazole, furan and tetrahudrofuran derivatives, isocoumarins, coriandrin, dihydrocoriandrin, coriandrons A-E, flavonoids. The volatile oil from the leaf contains aromatic acids such as 2-decenoic acid, E-11-tetradecenoic acid, undecyl alcohol, tridecanoic acid, capric acid, undecanoic acid, and more. The current pharmacological research reveals the application of coriander has antibacterial and antifungal activity.

INTRODUCTION

The genus Coriandrum has included two species, the cultivated species *C. sativum* and wild species *C. tordylium*. The name 'cilantro' has been randomly as well as frequently employed in American English which is referred to as *green herb* or *dried leaves*. The origin of *Coriandrum sativum* is still unknown; even many authors and scientists have described coriander to be as a wild plant in nature. But no specific information is available about the same fact. In 1780, Linnaeus had reported coriander occurred as a weed in cereals (Diederichsen, 1996).The 'Coriandrum' is coined from koros, referring to the disagreeable odor of the leaves (Shelef, 2003).

Family: *Umbelliferae Juss*. ;455 genera; 3600-3751 species
Subfamily: *Apioideae Drude*; 404 genera; 2827-2936 species
Tribe: *Coriandreae W. Koch*; 8 genera; 21 species
Genera: *Bifora F. Hoffm*.;3 species
Common Names Used Worldwide (Diederichsen, 1996).
Arab :kuzbara, kuzbura
Armenian :chamem
Chinese :yuan sui, hu sui
Czec :koriandr
Danish :koriander
Dutc :koriander
English :coriander, collender, chinese parsley
Ethiopian :dembilal
French :coriandre, persil arabe
Georgian :kinza, kindza, kindz
German :koriander, Wanzendill, Schwindelkorn
Greek :koriannon, korion
Hindi :dhania, dhanya
Hungarian :coriander
Italian :coriandolo
Japanese :koendoro
Malay :ketumbar
Persian :geshnes
Polish :kolendra
Portuguese :coentro
Rumanian :coriándru
Russian :koriandr, koljandra, ki nec, kinza, vonju ee zel'e, klopovnik
Sanskrit :dhanayaka, kusthumbari
Spanish :coriandro, cilantro, cilandrio, culantro
Swiss :chrapfechörnli, Böbberli, Rügelikümmi
Turkish :kisnis
Vernacular Indian Names(Diederichsen, 1996).
Bengali : dhane, dhania
Gujarati : kothmiri, konphir, libdhane

Related Content

Medical Cannabis in the Treatment of Epilepsy

Mahesh Pattabhiramaiahand Shanthala Mallikarjunaiah (2023). *Medical Cannabis and the Effects of Cannabinoids on Fighting Cancer, Multiple Sclerosis, Epilepsy, Parkinson's, and Other Neurodegenerative Diseases (pp. 103-118).*

www.irma-international.org/chapter/medical-cannabis-in-the-treatment-of-epilepsy/320044

Applications of Machine Learning in Disease Pre-screening

Upendra Kumar (2019). *Pre-Screening Systems for Early Disease Prediction, Detection, and Prevention (pp. 278-320).*

www.irma-international.org/chapter/applications-of-machine-learning-in-disease-pre-screening/215048

Contributions of Volunteers in Long-Term Care in Hong Kong

Ting-leung Lauand Kin-yee Chan (2018). *Sustainable Health and Long-Term Care Solutions for an Aging Population (pp. 216-236).*

www.irma-international.org/chapter/contributions-of-volunteers-in-long-term-care-in-hong-kong/185697

Prognosis

 (2020). *Diagnosing and Managing Hashimoto's Disease: Emerging Research and Opportunities (pp. 241-247).*

www.irma-international.org/chapter/prognosis/243797

Mental Illness, Youth, and Lessons from Residential Treatment Centers

Krista Allisonand Chris Allison (2017). *Healthcare Community Synergism between Patients, Practitioners, and Researchers (pp. 126-151).*

www.irma-international.org/chapter/mental-illness-youth-and-lessons-from-residential-treatment-centers/159287