

## Biological Activity Of Cymbopogon Citratus Dc Stapf And

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~~Lemon grass (Cymbopogon citratus)2018 August Monthly DAC educational meeting with PHN Use of Concoctions from Organic Farming Dr Pio Javier ?How to grow? Lemongrass (Cymbopogon citratus) Investigando Ando - Propiedades medicinales del Limoncillo (CYMBOPOGON CITRATUS) Cymbopogon Citratus Lemongrass Essential Oil Producer How Much Hibiscus Tea is Too Much? Biological Activity Of Cymbopogon Citratus~~  
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~~SUMMARY The present work makes a general bibliographical review around a variety of issues around Cymbopogon citrates and tries to summarize the most important aspect and qualities of the plant that make it a potential element in the research and ...~~

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~~Biological Activity of Cymbopogon citratus (DC) Stapf and ...~~

Biological Activity of Cymbopogon citratus (DC) Stapf and ... <http://iisonline.org> Biological Activity of Cymbopogon citratus (DC) Stapf antiasthmatic The guide also mentions the methods and most effective ways in which the apply and use the plant such: plant material, tincture 20%, cream with concentra-tions of 2% to 5%, syrup and aqueous extract ...

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Ethnopharmacology, phytochemistry, and biological activities of Cymbopogon citratus (DC.) Stapf extracts. Cymbopogon citratus is a widely distributed perennial herb belonging to the Poaceae family and has been extensively consumed for its medicinal, cosmetic, and nutritional effects for centuries. A large number of reports have been published describing the pharmacological, biological, and therapeutic a ....

~~Ethnopharmacology, phytochemistry, and biological ...~~

biological activities of silver nanoparticles from alkalized Cymbopogon citratus Stapf Emmanuel Ajayi and Anthony Afolayan Medicinal Plants and Economic Development (MPED) Research Center, Department of Botany University of Fort Hare, Alice 5700, South Africa E-mail: aafolayan@ufh.ac.za Received 22 August 2016

~~Green synthesis, characterization and biological ...~~

Cymbopogon citratus (lemongrass) EO is a potent antimicrobial and antioxidant natural bioproduct widely used in food preservation as an alternative to synthetic compounds (Boukhatem et al., 2014; Ekpenyong and Akpan, 2015).

~~Cymbopogon citratus—an overview | ScienceDirect Topics~~

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~~Cymbopogonol from Cymbopogon citratus and Its Biological ...~~

Abstract. Cymbopogon citratus is a widely distributed perennial herb belonging to the Poaceae family and has been extensively consumed for its medicinal, cosmetic, and nutritional effects for centuries. A large number of reports have been published describing the pharmacological, biological, and therapeutic actions of this herb.

~~Ethnopharmacology, phytochemistry, and biological ...~~

Besides, the in vitro anti-plasmodial activity evaluated by the radioisotopic method showed that the C. citratus oil is the most active against P. falciparum, with an IC50 value of  $4.2 \pm 0.5$  ?g/mL compared with O. canum ( $20.6 \pm 3.4$  ?g/mL) and O. basilicum ( $21 \pm 4.6$  ?g/mL). These essential oils can be recommended for the development of natural biocides for fighting the larvae of malaria vectors and for the isolation of natural products with anti-malarial activity. © P. Akono Ntonga et ...

~~Activity of Ocimum basilicum, Ocimum canum, and Cymbopogon ...~~

Green synthesis, characterization and biological activities of silver nanoparticles from alkalized Cymbopogon citratus Stapf. ... Traditional applications of Cymbopogon citratus in different countries show its diversity as a common tea, medicinal supplement, insect repellent, insecticide, and as an anti-inflammatory and analgesic.

~~Green synthesis, characterization and biological ...~~

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Ethnopharmacological relevance: *Cymbopogon citratus* (lemon grass) has been used in traditional medicine as an herbal infusion to treat fever and malaria. Generally, whole plant extracts possess higher biological activity than purified compounds.

## ~~Exploring the antimalarial potential of whole Cymbopogon ...~~

*Cymbopogon citratus* is a plant used in traditional folk medicine in Brazil for the treatment of nervous and gastrointestinal disturbances, and in various other countries to treat fevers (Melo et al. 2001). The volatile oil obtained from fresh leaves of this plant is widely used by the perfume and cosmetics industries.

## ~~Biological Activities of Essential Oil Obtained from ...~~

From the present study, it could be seen that ethanolic extract of *Cymbopogon citratus* exhibits antibacterial activity against *S. typhi* while the growth of this microbe (*S. typhi*) was affected by the extract. *Cymbopogon citratus* is a good source of carbohydrate, crude fibre, and nutritive elements.

## ~~Chemical Compositions, Phytochemical Constituents and in ...~~

This study had analyzed the antibacterial, antifungal and trypanocidal activity of the essential oils from *Cinnamodendron dinisii* Schwacke (Canellaceae) and *Siparuna guianensis* Aublet (Siparunaceae). The essential oils were obtained from fresh leaves by hydrodistillation, using a modified Clevenger apparatus.

## ~~Biological activity of the essential oils from ...~~

Effects of 24-epibrassinolide in volatile constituents and biological activity of essential oils of *Cymbopogon citratus* and *Cymbopogon flexuosus* (Poaceae) ... The antiproliferative activity was confirmed in the essential oil of the four groups, controls and treatments for both species, with effective anti-proliferative activity against tumor ...

## ~~Effects of 24-epibrassinolide in volatile constituents and ...~~

*Cymbopogon citratus* (DC) Stapf. (Lemon grass) (Graminaceae) is a source of essential oil widely used as a component of ethnopharmaceuticals in tropical and subtropical countries. Among a range of essential oils isolated from different plant sources, lemongrass oil exhibit highest antioxidant activity and protect lipids peroxidation.

The bacterial resistance has created a major health issue worldwide whereby the pathogens becoming resistant even to the most recently approved antibiotics. Essential oils have showed many biological activities such as antibacterial, antifungal, antiviral, antioxidant and insecticidal. This study was conducted to analyse the chemical composition of the essential oils of *Cymbopogon citratus* and *Cymbopogon nardus*; and to study their antibacterial activities in alone and in combination. Essential oils obtained by steam distillation were analysed by gas chromatography-mass spectrometry (GC-MS); while the antibacterial activity of the essential oils were evaluated against five bacteria namely *Enterococcus faecalis* ATCC 14506, *Staphylococcus aureus* BAA-1026, *Bacillus Subtilis* ATCC 11774, *Escherichia coli* ATCC 10536, and *Salmonella typhimurium* ATCC 14506 by using disk diffusion and broth microdilution methods. To determine the antibacterial effects of essential oils in combination, the broth microdilution checkerboard method was utilized. From the results, it is observed that the major compounds contained in essential oils of *Cymbopogon citratus*, and *Cymbopogon nardus* were geranial (33.01%) and elemol (44.14%), respectively. The result of antibacterial

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activity indicated that *Cymbopogon citratus* possessed a good and wide spectrum of antibacterial activity against all the tested bacteria; whereas *Cymbopogon nardus* only showed stronger antibacterial activity against Gram-positive bacteria than Gram-negative bacteria. Gram-positive bacteria were more sensitive to the investigated oils than Gram-negative bacteria; in which *Staphylococcus aureus* was the most sensitive strain tested, with the lowest MIC value (0.47 µg/ml). The *Cymbopogon nardus* had showed greater bactericidal activity against all Gram-positive bacteria compared to *Cymbopogon citratus*. The result of antibacterial activity of essential oils in combination showed that the combination were less effective compared to when each of the essential oils was used individually; the antagonism responses were obtained against all the tested bacteria except for *Enterococcus faecalis* bacteria which showed indifference response. The results presented may suggest that the essential oils of *Cymbopogon citratus* and *Cymbopogon nardus* could be employed as a potential source of antibacterial ingredients for food and pharmaceutical industry; however, it is recommended for not mixing these both essential oils as they have not given positive results for antibacterial activity.

When enjoying a southeast asian soup or cup of herbal tea, we are really savoring the flavor of lemongrass. Similarly, the sweet aroma of mosquito-repelling lotions comes from the citronella oil present in them. Fine perfumes, candles, and herbal pillows with the pleasing smell of rose are often in fact scented with palmarosa. Providing an in-depth look at their history and production, *Essential Oil Bearing Grasses: The genus Cymbopogon* provides a comprehensive review of these economically important grasses. A detailed examination of chemical constituents and market trends, the book explores the cosmetic, medicinal, and nutritional uses of the plant. It covers the botany, taxonomy, chemistry, and biogenesis of the oils, and their extraction and analytical methods, biotechnology, storage, legislation, and trade. Highlighting industrial uses for the grasses in this genus, the book also includes coverage of the physiological and ecophysiological considerations. It presents a comprehensive overview of most of the cultivated and wild species of cymbopogons. Featuring contributions from a team of international experts, the book describes the considerable ethno-botanical, phytochemical, and pharmacological knowledge associated with the multidimensional uses of the oils. It provides a complete industrial profile that includes market size, geographical sources, export and import data, and industry uses. Its pages offer an invaluable resource for research, cultivation, marketing, or product development of *Cymbopogon*.

Antibiotics represent one of the most successful forms of therapy in medicine. But the efficiency of antibiotics is compromised by the growing number of antibiotic-resistant pathogens. Antibiotic resistance, which is implicated in elevated morbidity and mortality rates as well as in the increased treatment costs, is considered to be one of the major global public health threats ([www.who.int/drugresistance/en/](http://www.who.int/drugresistance/en/)) and the magnitude of the problem recently prompted a number of international and national bodies to take actions to protect the public ([http://ec.europa.eu/dgs/health\\_consumer/docs/road-map-amr\\_en.pdf](http://ec.europa.eu/dgs/health_consumer/docs/road-map-amr_en.pdf); [http://www.who.int/drugresistance/amr\\_global\\_action\\_plan/en/](http://www.who.int/drugresistance/amr_global_action_plan/en/); [http://www.whitehouse.gov/sites/default/files/docs/carb\\_national\\_strategy.pdf](http://www.whitehouse.gov/sites/default/files/docs/carb_national_strategy.pdf)). Understanding the mechanisms by which bacteria successfully defend themselves against the antibiotic assault represent the main theme of this eBook published as a Research Topic in *Frontiers in Microbiology*, section of Antimicrobials, Resistance, and Chemotherapy. The articles in the eBook update the reader on various aspects and mechanisms of antibiotic resistance. A better understanding of these mechanisms should facilitate the development of means to potentiate the efficacy and increase the lifespan of antibiotics while minimizing the emergence of antibiotic resistance among pathogens.

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Biological activity of some local medicinal plants including *Ocimum sanctum*, *Mentha arvensis*, *Cymbopogon citratus*, *Decaspermum montanum*, *Eugenia aromatica*, *Curcuma domestica*, *Curcuma viridiflora* and *Zingiber ottensii* was investigated. The volatile fraction of some of the plants was isolated and the major components were characterized by gas chromatography and spectroscopic methods. The fungicidal, bactericidal and insecticidal activities of some of the extracts and their ability to inhibit seed germination were studied. [Authors' abstract].

Before the concept of history began, humans undoubtedly acquired life benefits by discovering medicinal and aromatic plants (MAPs) that were food and medicine. Today, a variety of available herbs and spices are used and enjoyed throughout the world and continue to promote good health. The international market is also quite welcoming for MAPs and essential oils. The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils. These consumer choices lead to growing preference for organic and herbal based products in the world market. As the benefits of medicinal and aromatic plants are recognized, these plants will have a special role for humans in the future. Until last century, the production of botanicals relies to a large degree on wild-collection. However, the increasing commercial collection, largely unmonitored trade, and habitat loss lead to an incomparably growing pressure on plant populations in the wild. Therefore, medicinal and aromatic plants are of high priority for conservation. Given the above, we bring forth a comprehensive volume, "Medicinal and Aromatic Plants: Healthcare and Industrial Applications," highlighting the various healthcare, industrial and pharmaceutical applications that are being used on these immensely important MAPs and its future prospects. This collection of chapters from the different areas dealing with MAPs caters to the need of all those who are working or have interest in the above topic.

Medicinal Spices and Vegetables from Africa: Therapeutic Potential against Metabolic, Inflammatory, Infectious and Systemic Diseases provides a detailed look at medicinal spices and vegetables that have proven safe-and-effective for consumption and the treatment of diseases, including infectious diseases, cardiovascular disease, and cancer. It provides pharmacological evidence, such as the latest information related to efficacy and safety data, in vitro and in vivo studies, clinical trials, and more, to illustrate the use of these spices and vegetables as both palliative and alternative treatments with the goal of furthering research in this area to produce safer and more effective drugs. Provides scientific evidence for the potential of medicinal spices and vegetables used in Africa to fight metabolic, inflammatory, and infectious diseases Includes a review of the latest methods used to investigate the effects of medicinal plants in the treatment of disease Offers an updated resource for students and scientists in the fields of pharmaceutical science, pharmacognosy, complementary and alternative medicine, ethnopharmacology, phytochemistry, biochemistry, and more

This book has been prepared to embody the major and efficient applications of the different duties and roles of grasses in our life, as well as offered a solid concept for this kind of science. The book aims to illustrate various ideas, methods and how it is treated in the agronomic process for different forms of grasses in human life.

The pharmacopoeias of most African countries are available and contain an impressive number of medicinal plants used for various therapeutic purposes. Many African scholars have distinguished themselves in the fields of organic chemistry, pharmacology, and

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pharmacognosy and other areas related to the study of plant medicinal plants. However, until now, there is no global standard book on the nature and specificity of chemicals isolated in African medicinal plants, as well as a book bringing together and discussing the main bioactive metabolites of these plants. This book explores the essence of natural substances from African medicinal plants and their pharmacological potential. In light of possible academic use, this book also scans the bulk of African medicinal plants extract having promising pharmacological activities. The book contains data of biologically active plants of Africa, plant occurring compounds and synthesis pathways of secondary metabolites. This book explores the essence of natural substances from African medicinal plants and their pharmacological potential. The authors are world renowned African Scientists.

With over 50,000 distinct species in sub-Saharan Africa alone, the African continent is endowed with an enormous wealth of plant resources. While more than 25 percent of known species have been used for several centuries in traditional African medicine for the prevention and treatment of diseases, Africa remains a minor player in the global natural products market largely due to lack of practical information. This updated and expanded second edition of the Handbook of African Medicinal Plants provides a comprehensive review of more than 2,000 species of plants employed in indigenous African medicine, with full-color photographs and references from over 1,100 publications. The first part of the book contains a catalog of the plants used as ingredients for the preparation of traditional remedies, including their medicinal uses and the parts of the plant used. This is followed by a pharmacognostical profile of 170 of the major herbs, with a brief description of the diagnostic features of the leaves, flowers, and fruits and monographs with botanical names, common names, synonyms, African names, habitat and distribution, ethnomedicinal uses, chemical constituents, and reported pharmacological activity. The second part of the book provides an introduction to African traditional medicine, outlining African cosmology and beliefs as they relate to healing and the use of herbs, health foods, and medicinal plants. This book presents scientific documentation of the correlation between the observed folk use and demonstrable biological activity, as well as the characterized constituents of the plants.

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