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In vitro antimicrobial properties of caprylic acid, monocaprylin, and sodium caprylate against *Dermatophilus congolensis*

In vitro antimicrobial properties of caprylic acid ...

First principle study on in-vitro antimicrobial properties of nano 52S4.6 bioactive glass. 2.1.

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Synthesis of 52S4.6 bioactive glass (Nbg) Precursors for the synthesis of bioactive glass were purchased from Sigma Aldrich (Germany) and Alfa ... 2.2. Characterization. 2.3. In-vitro antimicrobial study. ...

First principle study on in-vitro antimicrobial properties ...

The emergence of antimicrobial resistance, coupled with the availability of fewer antifungal agents with fungicidal actions, prompted this present study to characterize *Candida* species in our environment and determine the effectiveness of virgin coconut oil as an antifungal agent on these species. In 2004, 52 recent isolates of *Candida* species were obtained from clinical

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In Vitro Antimicrobial Properties of Coconut Oil on ...

The antibacterial properties of the methanol extracts from *A. rugosa* were analyzed by the disc diffusion method, and the flower extracts had higher antibacterial activities against the six bacterial strains used in the study than the other parts. ... In Vitro Antioxidant and Antimicrobial Properties of Flower, Leaf, and Stem Extracts of Korean ...

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In Vitro Antimicrobial Properties of Coconut Oil on Candida Species in Ibadan, Nigeria. D.O. Ogbolu, I. A.A. Oni, I. ... [33] who studied the antimicrobial properties of coconut oil; Shino et al ...

(PDF) In Vitro Antimicrobial Properties of Coconut Oil on ...

In vitro antimicrobial properties of coconut oil on Candida species in Ibadan, Nigeria J Med Food. 2007 Jun;10(2):384-7. doi:

10.1089/jmf.2006.1209. Authors D O Ogbolu 1 , A A Oni, O A Daini, A P Oloko. Affiliation 1 Department of Medical Microbiology ...

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In vitro antimicrobial properties of coconut oil on ...

In vitro study of antibacterial and antioxidant ... Due to presence of both antibacterial and antioxidant properties cow urine may be used as a therapeutic agent. Keywords:

...

In vitro study of antibacterial and antioxidant properties ...

The potent antimicrobial activity of cefotaxime appears to be the result of a combination of characteristics which include: β -lactamase stability (types I, III, IV, and V), good ability to pass through the cell membrane, strong affinity for lethal penicillinbinding proteins I a, Ib(s), and 3, minimal limitation by the inoculum effect, and

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Bactericidal action at or close to the inhibitory concentration.

Cefotaxime: A Review of in Vitro Antimicrobial Properties ...

In vitro cell-material interactions and alkaline phosphatase (ALP) protein expressions were evaluated by culturing human fetal osteoblast cells (hFOB). Present results suggest that the plasma sprayed HA coatings doped with an optimum amount of Ag can have excellent antimicrobial property without altering mechanical property of the Ag doped HA ...

Mechanical, In Vitro Antimicrobial and Biological ...

To get deeper insights into the potential antimicrobial activity of

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these SSP, in silico molecular docking was performed. The purified cruciferin and napin were then tested against Gram-positive and Gram-negative bacteria for in vitro antimicrobial activity by assessing the zone of inhibition of bacterial growth using the disk diffusion method.

In Silico, Molecular Docking and In Vitro Antimicrobial ...

Plants are rich in a wide variety of secondary metabolites such as tannins, alkaloids, phenolic ...

In Vitro Antimicrobial Activity of Some Medicinal Plants ...

Almalki, M. (2017) In Vitro Antibacterial, Antifungal and Other Medical Properties of Endangered Medicinal Plant

Download Free In Vitro Antimicrobial Properties Of Seeds. Pharmacology & Pharmacy, 8, 189-204. doi: 10 ...

In Vitro Antibacterial, Antifungal and Other Medical ...

Screening of antimicrobial, antioxidant properties and bioactive compounds of some edible mushrooms cultivated in Bangladesh Annals of Clinical Microbiology and Antimicrobials, Vol. 14, No. 1 Antimicrobial and toxic potential of aqueous extracts of *Allium sativum* , *Hibiscus sabdariffa* and *Zingiber officinale* in Wistar rats

In Vitro Antimicrobial Properties of Aqueous Garlic ...

In the medical field, research on antimicrobial properties of metal oxide nanoparticles have

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emerged to find new antimicrobial agents as an alternative against resistant bacteria. The metal oxides, particularly those formed by transition metals are compounds with electronic properties, and most magnetic phenomena involve this type of oxides.

In vitro Antimicrobial Activity Evaluation of Metal Oxide ...

In vitro Screening for Antioxidant, Antimicrobial, and Antidiabetic Properties of Some Korean Native Plants on Mt. Halla, Jeju Island T. K. Hyun , H. C. Kim , 1 and J. S. Kim 2, * College of Agricultural, Life and Environmental Sciences, Chungbuk National University, Cheongju 361-763, Republic of Korea

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In vitro Screening for Antioxidant, Antimicrobial, and ...

The bar charts in Figures 2 and 3 disclose the antibacterial effect of the honey samples. The Water Mint (*M. aquatica*), Linden (*T. cordata*), and Organic 2 (mixed organic flora) were able to inhibit all of the tested pathogens, showed the greatest inhibition zones and had a significant ($p < 0.05$) effect on the gram-negative pathogens. The antibacterial effect of the honeys was greatest on the ...

The Antibacterial Effect In Vitro of Honey Derived from ...

Eight in vitro studies assessed the antimicrobial activity of lauric acid and monolaurin on a wide

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Variety of microorganisms, and all are reviewed in chronological order below. 6,10,12–17 The first in vitro study evaluated bactericidal properties of 30 different fatty acids including lauric, capric, and caprylic acids and their derivatives against gram-negative organisms (*Proteus vulgaris*, *P. mirabilis*, *P. rettgeri*, *Escherichia coli*, *Serratia marcescens*, *Pseudomonas aeruginosa*, and ...

The fast growing problem of drug resistant pathogens and emergence of undesirable side effects of certain drugs has necessitated the need to search for new antibiotic sources. There

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are lots of drugs today that originally came from herbs or plants. This study focused on one of the Philippines' endemic plant which is *Glochidion cagayanense* C.B. Rob. This present work dealt with the preliminary antimicrobial activity of the leaves of *G. cagayanense* C.B. Rob through the disc diffusion method and the minimum inhibitory concentration (MIC). The concentrated methanolic extract was subjected to vacuum liquid chromatography (VLC), obtained fractions with similar TLC profile were pooled. Most of the VLC sub-extracts showed antibacterial activities against Gram-negative bacteria and Gram-positive bacteria. Among the VLC sub-extracts GCM2 and GCM3 showed the

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highest activity (ZI of 15.7 & 14.6 mm) against *Klebsiella oxytoca* while GCM1 showed the highest activity (ZI of 14.0 mm) against *Bacillus subtilis*. The MIC values observed for all microorganisms tested have the same mean level of 25 mg/mL and Minimal Bactericidal Concentration of 50 mg/mL except for *Staphylococcus epidermidis*, *Staphylococcus aureus* and *Candida albicans* whose MIC values were 6.5 and 12.5 mg/mL respectively. Screening of phytochemicals revealed the presence of flavonoids, steroid, phenols, tannins, sugars, and triterpenes. It is probable that some of these compounds, alone or in combination are responsible for the observed antimicrobial

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properties. Therefore, *Glochidion cagayanense* extract could be a potential source of effective and affordable antimicrobial compounds.

Fagonia cretica is well known herbal plant used in traditional medicine of Pakistan, India and Far East, it is reputed to obtain a profitable therapeutical properties and it has been used in treatment of fever, thirst, vomiting, dysentery, asthma, urinary discharges, and liver troubles. Externally applied as a paste on tumors and other swellings of the neck. Reported to possess potent

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antibacterial properties against pathogenic organisms, also the scientific studies of the plant proved the presence of hematological, neurological, anticancer, and hepato- activity. The present study targeted the extraction and, study of antimicrobial properties of the extract. The most recent study proved that the plant has a high effect for the treatment of the breast cancer, the plant has the property to kill cancerous cells selectively without any harm to the normal cells and without any side effect

Self-assembly is a common principle in molecular fabrication of natural and synthetic systems and has many important

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Applications in the fields of nanoscience and nanotechnology. This book provides clear explanations of the principles of self-assembly with the limitations along with examples and research-based results with discussion for students, researchers, and professions.

A novel series of 1,3,4-oxadiazole analogues were synthesized for their antimicrobial activities using disk diffusion and agar streak dilution method. The synthesized compounds were tested for their in vitro antimicrobial activity against the Gram-positive bacteria *Staphylococcus aureus* and *Bacillus subtilis*, the Gram negative bacteria *Proteus mirabilis* and *Pseudomonas*

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Blau, E. S. *Essential Oils*
aeruginosa, the fungal strain *Aspergillus niger* and the yeast like pathogenic fungus *Candida albicans*. All the compounds were found to possess a broad spectrum of antimicrobial activities. Synthesized oxadiazole analogues exhibited more pronounced inhibitory activity against Gram-positive bacteria than Gram-negative bacteria. Antifungal properties of the oxadiazole analogues were found to be weaker when compared to their antibacterial activity. The efforts were also made to establish structure activity relationships among synthesized compounds.

Foodborne diseases takes a major toll on health. Thousands of

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Millions of people fall ill and many die as a result of eating unsafe food. Deeply concerned by this a resolution was adopted by WHO and its Member States to recognize food safety as an essential public health function and to develop a Global Strategy for reducing the burden of foodborne diseases.

Honey Analysis - New Advances and Challenges discusses advances in honey research. Topics include the physicochemical characteristics of honey from stingless bees, the therapeutic properties of honey, melissopalynological analysis as an indicator of the botanical and geographical origin of honey, and methods for authenticating

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honey. Written by experts in the field, this book provides readers with an indispensable source of information, assisting them in future investigations of honey and beekeeping.

Objectives This study was undertaken to screen the in vitro antimicrobial properties of four Australian native Eucalyptus species, i.e., *E. dives*, *E. gunnii*, *E. olida* and *E. staigeriana* against five food-related microorganisms, i.e., *E. faecalis*, *S. aureus*, *E. coli*, *P. aeruginosa* and *C. albicans*. The influences of two different extraction methods as well as the influence of a surfactant as plant extract dissolver in the water-based culture media used in agar disc

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diffusion tests and the role of growth location of two different *E. olida* specimens were investigated on the antimicrobial activity. Plant extracts profile and major compounds were analysed by GC/MS. Results Essential oils of the four *Eucalyptus* species displayed a variable degree of antimicrobial activity against the panel of micro-organisms tested, *E. staigeriana* oil showing a greater potential. Hexane extracts displayed no or low antimicrobial properties against the microbial strains tested with the exception of *S. aureus*. *P. aeruginosa* proved to be the most resistant micro-organism tested while *S. aureus* was the most sensitive one. The effect of a surfactant showed to decrease

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the antimicrobial activity of plant extracts or to not have any influence at all. GC/MS analyses showed that *E. staigeriana* and *E. dives* essential oils contain mostly volatile compounds while essential oils of both *E. olida* specimens contain heavier compounds.

Probiotic microorganisms are recognised as being beneficial for human health. Prebiotics are substrates that are used preferentially by the probiotic bacteria for their growth. A great deal of interest has been generated in recent years in identifying probiotic bacteria and prebiotics, their characterization, mechanisms of action and their role in the prevention and

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Plant Essential Oils management of human health disorders. Together they are referred to as synbiotic. This book is in response to the need for more current and global scope of probiotics and prebiotics. It contains chapters written by internationally recognized authors. The book has been planned to meet the needs of the researchers, health professionals, government regulatory agencies and industries. This book will serve as a standard reference book in this important and fast-growing area of probiotics and prebiotics in human nutrition and health.

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