



Anti-inflammatory Activity of *Cyathula prostrata* (L.) Blume

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Abstract: The genus, *Cyathula* comprises of about one hundred and six (106) species which are perennial herbs or under-shrubs. *Cyathula prostrata* (L.) Blume which belongs to the Amaranthaceae family is commonly known as pasture weed, pigweed and small prickly chaff- flower and found growing in forests, plantations, waste areas and roadsides. Extracts of this plant are used in traditional medicine for the treatment of chest troubles, dysentery, diarrhea, craw-craw, scabies, sexual disease, tumours and inflammations amongst many others. The growing concerns associated with the incidence of reactive free-radicals widely implicated in inflammatory conditions prompted this present study. The crude extract, fractions and two previously isolated compounds (HOO-1 and HOO-2) from the plant were screened for anti-inflammatory activities with the aim of confirming or disproving its uses in ethnomedicine. The xylene and chorio-allantoic membrane (CAM) models were employed in the determination of the anti-inflammatory activity. The xylene-model test for anti-inflammatory activity showed that the ethyl-acetate fraction and HOO-2 gave moderately similar anti-inflammatory activity of 53.48 % while HOO-1 was comparably less active at 30.20 %. The chorio-allantoic membrane (CAM) model also indicated that both the ethyl-acetate fraction and HOO-2 gave moderate anti-inflammatory activity of 52.00 % while HOO-1 was less active at 44.00 %. However, the other fractions were weakly active.

These results obtained from this study were not surprising because the phytochemical screening of the extract indicated the presence of flavonoids and terpenes which have demonstrated anti-inflammatory activities in previous studies. Furthermore, the results show some consistency irrespective of the model used and do lend scientific justification to the folklore uses of the plant in treating and managing inflammatory conditions.

Keywords: Inflammations; xylene-model; chorio-allantoic membrane (CAM); *Cyathula prostrata*; free-radicals.

Introduction

From time immemorial, man has been dependent on plants and other sources for his food and medicine for relief from illness¹. Plants owe their value as drugs to the medicinal properties of specific inorganic and organic chemical entities present therein². Currently, about twenty to fifty percent (20% to 50%) of medicines /drugs in the world is derived from plants³. Therefore, any contribution to the discovery of templates for the treatment and/or management of disease conditions such as skin, gastro-intestinal, respiratory tract infections, tumours and especially inflammations will be of particular interest to the scientific world and of immense benefits to mankind. Inflammation just like free radical damage and oxidative stress has become major health

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N. Jaya Raju



Anti Inflammatory Activity Of Cyathula Prostrata:

Phytochemical Drug Discovery for Central Nervous System Disorders Chukwuebuka Egbuna, Mithun Rudrapal, 2023-07-13 PHYTOCHEMICAL DRUG DISCOVERY FOR CENTRAL NERVOUS SYSTEM DISORDERS Understand herbal and plant based treatments for chronic disorders with this groundbreaking work Due in part to the aging of the global population disorders of the central nervous system have become an increasingly grave public health concern in recent years Demand for pharmaceutical treatments has been correspondingly high but there are many barriers to the successful development of effective synthetic drugs Phytomedicines or plant based and herbal medicines have proven to be an effective alternative boasting lower toxicity and cost and higher efficacy and one that demands greater research and broader based practitioner knowledge *Phytochemical Drug Discovery for Central Nervous System Disorders* meets this demand with a timely clearly structured guide It thorough coverage presents a wide range of phytochemicals with potential as candidates for drug discovery describing their sources properties and therapeutic efficacy The result is a vital contribution to the ongoing fight against central nervous system CNS disorders *Phytochemical Drug Discovery for Central Nervous System Disorders* readers will also find Detailed treatment of CNS active plant products neuroprotective chemicals plant based nutraceutical products and more Up to date information on FDA approved drugs and existing plant based products used to treat CNS disorders An authorial team featuring experts from across the globe *Phytochemical Drug Discovery for Central Nervous System Disorders* is essential for drug discovery scientists drug developers medicinal chemists biochemists and any researchers and professionals in the health care or pharmaceutical industries

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Medicinal Plants of Sabah, North Borneo Christophe Wiart, 2024-06-28 Researchers in the field of natural product chemistry and pharmacology focus on discovering new drugs from medicinal plants The medicinal plants of Sabah North Borneo many of which are found in all of Asia and the Pacific represent a vast array of resources that could be used for the discovery of drugs and the development

of cosmetics as well as functional food No other book focuses on the medicinal plants from this part of the globe in such depth The author is well known in natural products and this text will appeal to a global audience in presenting the botanical description chemical constituents pharmacology pharmaceutical cosmetic and functional food potentials of these plants Features Describes in a phylogenetic order the habitats distributions botanical descriptions local names uses chemical constituents pharmacological activities and toxic effects of more than 250 species of medicinal plants of Sabah Provides a selection of botanical plates of medicinal plants endemic to Sabah hand drawn by the author Provides comment sections to invite further research on the topic of the development of drugs dietary products and cosmetics from Sabah medicinal plants

Unity in Diversity and the Standardisation of Clinical Pharmacy Services Elida Zairina,Junaidi Khotib,Chrismawan Ardianto,Syed Azhar Syed Sulaiman,Charles Sands III,Timothy Welty,2017-12-22 *Unity in Diversity and the Standardisation of Clinical Pharmacy Services* represents the proceedings of the 17th Asian Conference on Clinical Pharmacy ACCP 2017 held 28 30 July 2017 in Yogyakarta Indonesia The primary aim of ACCP 2017 was to bring together experts from all fields of clinical pharmacy to facilitate the discussion and exchange of research ideas and results The conference provided a forum for the dissemination of knowledge and exchange of experiences As such it brought together clinical pharmacy scholars pharmacy practitioners policy makers and stakeholders from all areas of pharmacy society and all regions of the world to share their research knowledge experiences concepts examples of good practice and critical analysis with their international peers This year also marks the celebration of 20 years of ACCP Central themes of the conference and contributed papers were Clinical Pharmacy Social and Administrative Pharmacy Pharmacy Education Pharmacoeconomics Pharmacoepidemiology Complementary and Alternative Medicine CAM and a number of related topics in the field of Pharmacy Taiwanese Native Medicinal Plants Thomas S. C. Li,2006-03-30 Written by internationally renowned scientist and author Thomas S C Li *Taiwanese Native Medicinal Plants* presents information critical to assessing the medicinal potential of Taiwanese herbs A comprehensive review of chemical constituents toxicity and therapeutic values the book focuses on documentation of the chemical components present and *Plants that Fight Cancer, Second Edition* Spyridon E. Kintzios,Maria G. Barberaki,2019-06-26 An increasing amount of cancer research is being directed towards the investigation of plant derived anticancer compounds many of which have been used in traditional herbal treatments for centuries *Plants that Fight Cancer* is an up to date extensive review of plant genera and species with documented anti tumor and anti leukaemic properties Following an overview of the disease and the diverse methods of therapy and clinical testing the book provides a detailed examination of the plants whose compounds are currently used in conventional cancer treatment the species which show the greatest potential as future candidates and other species with established anticancer properties The third section explores each of more than 150 terrestrial plant genera and species with a review of their traditional uses mythology botany active ingredients and product applications along with photographs and illustrations and an analysis of

expected results and risks The text closes with a discussion of algal extracts and isolated metabolites with anticancer activity a summary of published research for each species and chemical structures of the most important compounds **The Anticancer Activity of Cyathula Prostrata on Two Malignant Cell Lines** Gerald Schnablegger,2010 Medicinal Plants for Anti-Inflammatory Activity Syed Irtiza Andrabi,2011-08 The present work describes total phenol content antioxidant activity anti inflammatory activity and isolation of compounds from three different medicinal plants of Kashmir valley viz Platanus orientalis Cedrus deodara and Populus alba Twenty nine extracts were prepared in different solvents of increasing polarity chloroform methanol and water of three plant parts viz stem root and leaves and also whole plant extracts were prepared with petroleum ether and methanol Anti-inflammatory Activity of Three Indian Traditional Medicinal Plants N. Jaya Raju,2017-06-02 This book is very helpful to the research scholar and the students of the clinical pharmacy Handbook of Compounds with Anti-inflammatory and Anti-platelet Aggregation Activities Isolated from Plants Rosa Martha Pérez Gutiérrez,2009 This book presents 848 compounds isolated and identified from plants that present anti inflammatory and antiplatelet aggregation activities These substances have been classified by chemical groups and each provides the most relevant information of its pharmacological activity action mechanism chemical structure spectroscopic data and other properties Chemical structures have been drawn to indicate the stereochemistry In this handbook the summary of the scientific information of plants that present biological activity and the compounds responsible for these activities is presented which introduces the reader to the study of medicinal plants and also provides bibliographic references where a detailed study of its chemistry and pharmacology can be found *Discovery and Development of Anti-inflammatory Agents from Natural Products* Goutam Brahmachari,2019-07-11 *Discovery and Development of Anti-inflammatory Agents from Natural Products* the latest volume in the Natural Product Drug Discovery series presents cutting edge research advances in the field of bioactive natural products and natural drug formulations with this volume focusing on molecules of natural origin and their synthetic analogues that have the potential to act against the pathogens responsible for inflammatory diseases All aspects of each are covered including isolations and structure elucidations in vitro and in vivo biological activity synthetic optimization investigations of pharmacodynamics and kinetics and the structure activity relationships of anti inflammatory natural products Written by active researchers and leading experts this book brings together an overview of current discoveries and trends in this field It will be a valuable resource for researchers working to discover promising leads for the development of pharmaceuticals in the prevention and treatment of anti inflammatory diseases Features contributions from active researchers and leading experts working in medicinal natural products and herbal formulations Includes recent cutting edge advances on medicinal natural products along with preventative therapies for different kinds of inflammation directed diseases Offers an authoritative source of information on the industrial application of natural products for medicinal purposes Inflammation and Natural Products Sreeraj Gopi, Augustine

Amalraj,Ajaikumar B. Kunnumakkara,Sabu Thomas,2021-01-19 Approx 446 pagesApprox 446 pages **Inflammation** Parag Jain,Ravindra Pandey,Shiv Shankar Shukla,2014-12-31 *A Study of an Inflammatory Peptide that Shows Some Anti-inflammatory Activity* J. Yamey,1980 **Phytochemical Study and Evaluation of the Anti-Inflammatory Activity of Some Medicinal Plants Growing in Egypt \ Medical Journal of Islamic World Academy of Sciences .- 2010, Vol. 18, No. 4** Mohamed S. Karawya,2000 **Comparison of the Putative Anti-inflammatory Activity of PCERA-1 and C8-C1P** Maya Levi,2007 *Anti-inflammatory Activity of the Fractionated Extracts of Plant Crinum Asiaticum (Family Awatef Mabruk Samud,1999 The Anti-inflammatory Activity of Z Aryl-1, 3-indandicnes Cees Nico Verboom,1979*

Anti-inflammatory Compounds ,2012 New clerodane compounds isolated from plant material from Dodonaea polyandra are disclosed The compounds have anti inflammatory activity Pharmaceutical and cosmetic compositions containing the compounds as well as methods of treating inflammation using the compounds are also disclosed The Anti-inflammatory Activity and Cytotoxicity of Peltophorum Africanum Leaf Extracts, Fractions and Isolated Compounds Salmon Adebayo,2016 Aims to evaluate extracts of indigenous medicinal plants used in southern Africa for treatment of pain related conditions for anti inflammatory activity It was also aimed at validating the anecdotal claims for use of the selected plant species as anti nociceptive and anti inflammatory remedies in traditional practice This was achieved based on the following objectives 1 to develop a list of medicinal plants used for treatment and management of inflammatory pain conditions in southern Africa using ethno botanical survey and literature sources 2 to select 25 plant species from the list and collect the leaves to prepare acetone extracts form dried ground leaf material 3 to evaluate the anti inflammatory activities of crude acetone extracts of the selected plant species in vitro 4 to select the most active extract for bio assay guided isolation of bio active compound s 5 to perform solvent solvent fractionation of the most active crude acetone extract and perform another anti inflammatory screening tests on the fractions 6 to select the most active fraction s for compound isolation 7 to identify isolate and determine the molecular structure of the compounds responsible for the observed anti inflammatory activities 8 to perform series of biological assays to determine and understand the potential targets and mechanisms of action of the isolated compound s in vitro 9 to evaluate any cytotoxic effects of isolated compounds in vitro

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