

Developments in Phytochemistry

Moronkola Dorcas Olufunke
*Department of Chemistry,
 University of Ibadan,
 Nigeria*

1. Introduction

Carbohydrates, proteins, fats and oils are utilized as food by man and animals. Other chemical compounds in plants apart from those listed above are phytochemical. Such compounds usually exert peculiar, unique and specific active physiological effects responsible for their therapeutic and pharmacological functions. Activities of such naturally occurring compounds are generally responsible for changes, which are utilized to satisfy man's desires. Phytochemical studies afford revelation and understanding of phytoconstituents, as much as possible conserving their bioactivities, and are on how to standardize them; compared with the crude herbal methods that are not easily standardized. These complex substances of diverse nature occur mostly in plant based foods; they are in very small amounts in grams or mg or μg /Kg of samples. They do not add to body calorie and are numerous in types. These phytochemical are applied mostly for preventive and healing purposes. About 25% of prescribed drugs are obtained from phytochemical in higher plants. Plants are safe means of obtaining drugs. About 250,000 higher plants have promising phytochemical, half of which are located in tropical forests; 60% of these have their biological activities established, while about 15% of them have their phyto-compounds isolated and reported [Hamburger and Hostettman, 1991].

Studies and researches into medicinal constituents of plants, involve qualitative and quantitative analyses. There is rationale behind each experimental work involving definite steps and processes; having in mind properties of compounds analyzed in conjunction with procedures utilized. Also our desired active metabolite to be isolated and studied as interested lead compound, many times is in very complex mixtures of many unwanted and undesired materials [known as contaminants], which have close properties to our desired bioactive molecules.

2. General and specific techniques, procedures and methods in phytochemical analyses, with highlight on recent developments in phytochemistry

Most of the techniques and procedures in phytochemical analyses are cumbersome and tiring, to have detailed understanding of phytoconstituents- [their activities, structures, how to improve on them and standardize them]. If they are carefully followed one achieve

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Recent Research Developments in Phytochemistry, Vol. 7 (2003) S. G. Pandalai, 2003 **The Formation, Structure and Activity of Phytochemicals** Reinhard Jetter, 2015-09-29 This text provides both review and primary research articles for a broad audience of biologists chemists biochemists pharmacologists clinicians and nutrition experts especially those interested in the biosynthesis structure function and or bioactivity of plant natural products Recurring themes include the evolution and ecology of specialized metabolites the genetic and enzymatic mechanisms for their formation and metabolism the systems biology study of their cell tissue organ context the engineering of plant natural products as well as various aspects of their application for human health In addition to analysis of current research new developments in the techniques used to study plant natural products are presented and discussed taking a detailed look at structure elucidation and quantification omic genomic proteomic transcriptomic metabolomics profiling or for microscopic localization In short this series combines chapters from researchers that explain and discuss current topics in the most exciting new research in phytochemistry Phytochemicals, Plant Growth, and the Environment David R Gang, 2012-08-30 This is the second volume since the reintroduction of the Recent Advances in Phytochemistry RAP series an annual journal supported by the Phytochemical Society of North America Topics appropriate for RAP include the biosynthesis of natural products and regulation of metabolism the ecology of specialized metabolites and the evolution of their pathways and the effects of natural products or plants on human health Research appropriate for RAP involves genomics proteomics metabolomics natural product structural determination and new technology development medicinal chemistry and metabolic engineering or any of the myriad of fields that are now closely associated with what may be called traditional phytochemistry and plant biochemistry The advent of post genomics based ways of thinking of systems biology of synthetic biology of comparative genomics proteomics transcriptomics metabolomics and especially of the introduction and establishment of a mentality that leads to support of large collaborative projects has opened up many new doors to scientists interested and versed in the biochemistry of plants The goal of RAP is to highlight these developments Two main types of articles are printed in RAP Perspectives and Communications Perspectives in RAP are expected to synthesize results from the primary literature and perhaps from new novel results and place these in perspective relative to the broader field These articles may be similar to review articles but also are intended to present important ideas and hypotheses and may present proposals for interesting directions in the field It is the hope of the Editorial Board that these articles will be of great value to a large audience Communications are intended to represent new advances in the field that will be of interest to a large audience Articles of both types are typically solicited from the Society membership based on the content of the annual meeting talks but in

keeping with the title Recent Advances in Phytochemistry the editorial board reserves the right to solicit additional Perspectives and or Communications from non attendees as well e g where an editorial board member has knowledge of an interesting recent advancement that would be of general interest to the society membership All submissions to RAP go through a rigorous peer review process overseen by the Editorial Board which includes external review RAP is indexed with Springer published journals All RAP papers are available not only in the published volume form but also electronically through Springer s online literature services This marks a significant change from past volumes of RAP and it is the hope of the Editorial Board that this will lead to broader dissemination of the contents of and greater interest in RAP This 42nd volume of RAP includes a total of seven articles many but not all based on talks presented at the 50th annual meeting of the PSNA As was seen in RAP volume 41 These seven Perspectives give a very good picture of the breadth of plant bio chemistry research in North America which is also indicative of the state of the field worldwide Each of these articles describes the integration of several different approaches to ask and then answer interesting questions regarding the function of interesting plant metabolites either in the plant itself or in interactions with the environment natural setting or human health application Many of these Perspectives have a strong ecological focus McCormick et al review the discovery of the biosynthetic pathway leading to production of trichothecene mycotoxins such as the T 2 toxin in plant pathogenic and other fungi These compounds play very important roles in plant pathogen interaction and are very significant from a human health perspective In a complementary paper Durringer et al describe recent technological advances in monitoring mycotoxins such as ergovaline and lysergic acid in forage crops using state of the art and highly sensitive mass spectrometric means Gross reviews the current understanding of how infochemicals mediate interactions between plants and insects and highlights how such knowledge can be used to mitigate crop losses by pests Two Perspectives discuss how recent technological advances are making an impact on our understanding of the role of plant hormones in plant growth and development Gouthu et al outline highly sensitive methods for measurement of plant hormones in tissues such as developing grape berry In contrast McDowell and Gang outline how new transcriptional profiling techniques are shedding light on old questions such as how rhizome development is regulated by different plant growth regulators The last two Perspectives outline the role of biotechnology in modern plant biochemistry research Makhzoum et al review the long history of use of hairy roots and provide perspective on future utility of this tissue type in continuing to uncover mechanisms of plant natural product biosynthesis among other applications Dalton et al outline on the other hand recent efforts to produce non native polymers of human interest in plants and outline many of the challenges associated with such investigations We hope that you will find these Perspectives to be interesting informative and timely It is our goal that RAP will act not only as the voice of the PSNA but that it will serve as an authoritative up to date resource that helps to set the gold standard for thought and research in fields related to plant biochemistry

50 Years of Phytochemistry Research David R. Gang, 2013-12-03 This 43rd volume

of RAP includes a total of seven articles based on talks presented at the 50th Anniversary meeting of the PSNA which was held at the Fairmont Orchid in Waikoloa Hawaii i USA These seven Perspectives give a very good picture of the breadth of plant bio chemistry research in North America which is also indicative of the state of the field worldwide Each of these articles describes the integration of several different approaches to ask and then answer interesting questions regarding the function of interesting plant metabolites either in the plant itself or in interactions with the environment natural setting or human health application Two Perspectives outline very clearly the power of approaching biological questions from a modern omics or systems biology approach Beale and Ward outline how metabolomics approaches can be brought to bear on plant biosynthetic questions and quickly lead to important advances in our understanding or how plants produce important metabolites Zandkarimi et al outline the integration of ion mobility spectrometry into mass spectrometry based metabolomics investigations and show clearly how powerful those two spectrometric technologies can be when used together

Recent Research Developments in Phytochemistry, Vol. 6 (2002) S. G. Pandalai,2002 Phytochemistry, 3-Volume Set Chukwuebuka Egbuna,Jonathan Chinenye Ifemeje,Stanley Udedi Chidi,Shashank Kumar,Jaya Vikas Kurhekar,Nadia Sharif,2022-05-29 The 3 volume set *Phytochemistry* covers a wide selection of topics in phytochemistry and provides a wealth of information on the fundamentals new applications methods and modern analytical techniques state of the art approaches and computational techniques With chapters from professional specialists in their fields from around the world the volumes deliver a comprehensive coverage of phytochemistry *Phytochemistry* is a multidisciplinary field so this book will appeal to students in both upper level students faculty researchers and industry professionals in a number of fields including biological science biochemistry pharmacy food and medicinal chemistry systematic botany and taxonomy ethnobotany conservation biology plant genetic and metabolomics evolutionary sciences and plant pathology

Recent Research Developments in Phytochemistry S. G. Pandalai,1997 Phytochemistry Taylor & Francis Group,2021-03-31 This volume presents chapters that discuss secondary metabolites of marine origin the industrial applications of phytochemicals and recent advances in phytochemical research It considers production of secondary metabolites and accumulations through in vitro cultures and also reviews the effects of natural products as biopesticides and as eco friendly corrosion inhibitors In addition the volume discusses the effects of the environment on the distribution of phytochemicals and the roles of phytochelatins and heavy metal tolerance in plants

Current Topics in Phytochemistry Y. Asakawa,1997

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