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# Research Methods

## By Kontari

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Biotechnology Innovation in Kenya  
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Modulation  
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Architecture for Blockchain Applications  
Foreign Commerce Weekly  
Solar Energy Update  
THE INDIAN LISTENER

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**TIANA TYRESE**

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**Biotechnology  
Innovation in Kenya**  
Frontiers Media SA

Bhavaprakash  
Nighantu is nucleus of  
Ayurvedic Materia  
Medica. It is one of the  
most indispensable  
works on Ayurveda.  
This work on English

translation of the ancient Ayurvedic text has been divided into two parts: Part A, deals with principle Ayurvedic drugs of plant and animal origin. It covers twenty chapters on various gana (classification) of Bhavaprakash. Here, Ayurvedic parameters applicable to drugs have been tackled in detail. Classification of drugs according to medicinal activity, Description of gana according to Ayurveda, Brief monographs of medicinal plants used in Ayurveda, Certain miscellaneous Ayurvedic drugs, Plants used in other alternative systems of medicine, Drugs of animal origin. It will serve a handy reference book for all those involved in ayurvedic and

medicinal plant research.

**Novel Cancer Treatments based on Autophagy Modulation** Academic Press

The Indian Listener (fortnightly programme journal of AIR in English) published by The Indian State Broadcasting Service, Bombay, started on 22 December, 1935 and was the successor to the Indian Radio Times in English, which was published beginning in July 16 of 1927. From 22 August, 1937 onwards, it was published by All India Radio, New Delhi. In 1950, it was turned into a weekly journal. Later, The Indian listener became "Akashvani" in January 5, 1958. It was made a fortnightly again on

July 1,1983. It used to serve the listener as a bradshaw of broadcasting ,and give listener the useful information in an interesting manner about programmes,who writes them,take part in them and produce them along with photographs of performing artists. It also contains the information of major changes in the policy and service of the organisation. NAME OF THE JOURNAL: The Indian Listener LANGUAGE OF THE JOURNAL: English DATE,MONTH & YEAR OF PUBLICATION: 07-05-1949 PERIODICITY OF THE JOURNAL: Fortnightly NUMBER OF PAGES: 106 VOLUME NUMBER: Vol. XIV, No. 10 BROADCAST

PROGRAMME SCHEDULE PUBLISHED(PAGE NOS): 15-16, 19-99 ARTICLE: 1. Science And Agricultural Research 2. Inauguration Of AIR Ahmedabad 3. Cave Architecture Of Orissa 4. All Fools' Day AUTHOR: 1. U.N. Mohanty 2. Hon'ble Sardar Vallabhbai Patel 3. Susil Chandra De 4. Bishop George Sinker KEYWORDS: 1. Sugercane Breeding Station in Coimbatore, Improving varieties of crops, Indian Council of Agricultural Rsearch 2. All India Radio Station at Ahmedabad Station, Gandhiji's prayer boadcast, All India Radio and Gujarat listener 3. The Mauryas, Indian Architecture, Architecture in Orissa 3. Indian Clergyman,

April Fools, Christ  
Document ID:  
INL-1948-49 (D-J) Vol-I  
(10)  
*Social Isolation and  
Loneliness in Older  
Adults* Springer  
A groundbreaking look  
at marriage, one of the  
most basic and  
universal of all human  
institutions, which  
reveals the emotional,  
physical, economic,  
and sexual benefits  
that marriage brings to  
individuals and society  
as a whole. The Case  
for Marriage is a  
critically important  
intervention in the  
national debate about  
the future of family.  
Based on the  
authoritative research  
of family sociologist  
Linda J. Waite,  
journalist Maggie  
Gallagher, and a  
number of other  
scholars, this book's  
findings dramatically

contradict the anti-  
marriage myths that  
have become the  
common sense of most  
Americans. Today a  
broad consensus holds  
that marriage is a bad  
deal for women, that  
divorce is better for  
children when parents  
are unhappy, and that  
marriage is essentially  
a private choice, not a  
public institution.  
Waite and Gallagher  
flatly contradict these  
assumptions, arguing  
instead that by a broad  
range of indices,  
marriage is actually  
better for you than  
being single or  
divorced- physically,  
materially, and  
spiritually. They  
contend that married  
people live longer,  
have better health,  
earn more money,  
accumulate more  
wealth, feel more  
fulfillment in their lives,

enjoy more satisfying sexual relationships, and have happier and more successful children than those who remain single, cohabit, or get divorced. The Case for Marriage combines clearheaded analysis, penetrating cultural criticism, and practical advice for strengthening the institution of marriage, and provides clear, essential guidelines for reestablishing marriage as the foundation for a healthy and happy society. "A compelling defense of a sacred union. The Case for Marriage is well written and well argued, empirically rigorous and learned, practical and commonsensical." -- William J. Bennett, author of The Book of Virtues "Makes the

absolutely critical point that marriage has been misrepresented and misunderstood." -- The Wall Street Journal  
www.broadwaybooks.com

### **Foreign Commerce Weekly** Crown

This book highlights the important role of neutrophils in health as well as in the pathogenesis of various diseases. Section 1 provides a general background information regarding the mechanisms and various triggers of neutrophil extracellular traps (NETs) formation and their role in various infectious and noninfectious diseases (such as postinjury inflammation). Section 2 provides recent evidence regarding the role of neutrophils in the pathogenesis as well as a therapeutic

target for selected disease conditions such as periodontal diseases, rheumatoid arthritis, and cystic fibrosis. Section 3 describes the anti-inflammatory properties of neutrophils with focus regarding their role in graft versus host disease. This book provides a wider picture with regard to the importance of this immune cell type in various diseases with focus on one of its recently discovered properties, NETs. Therapeutic targets aimed to modulate neutrophil functions might provide novel approaches in the treatment of various diseases of infectious and noninfectious origin.

### **Cell Therapy for Neurological**

**Disorders** Springer  
About the Book: This second edition has been thoroughly revised and updated and efforts have been made to enhance the usefulness of the book. In this edition a new chapter The Computer: Its Role in Research have been added keeping in view of the fact that  
General Catalogue of Printed Books National Academies Press  
The writings of Ibn Khaldūn, particularly the Muqaddimah (Prolegomenon) have rightly been regarded as being sociological in nature. For this reason, Ibn Khaldūn has been widely regarded as the founder of sociology, or at least a precursor of modern sociology. While he was given this recognition, however, few works went beyond

proclaiming him as a founder or precursor to the systematic application of his theoretical perspective to specific historical and contemporary aspects of Muslim societies in North Africa and the Middle East. The continuing presence of Eurocentrism in the social sciences has not helped in this regard: it often stands in the way of the consideration of non-Western sources of theories and concepts. This book provides an overview of Ibn Khaldūn and his sociology, discusses reasons for his marginality, and suggests ways to bring Ibn Khaldūn into the mainstream through the systematic application of his theory. It moves beyond works that

simply state that Ibn Khaldūn was a founder of sociology or provide descriptive accounts of his works. Instead it systematically applies Khaldūn's theoretical perspective to specific historical aspects of Muslim societies in North Africa and the Middle East, successfully integrating concepts and frameworks from Khaldūnian sociology into modern social science theories. Applying Ibn Khaldūn will be of interest to students and scholars of sociology and social theory.

*Cystic Fibrosis in the Light of New Research*  
MDPI

The first book to cover the groundbreaking development and clinical applications of Magnetic Resonance Elastography, this book



is essential for all practitioners interested in this revolutionary diagnostic modality. The book is divided into three sections. The first covers the history of MRE. The second covers technique and clinical applications of MRE in the liver with respect to fibrosis, liver masses, and other diseases. Case descriptions are presented to give the reader a hands-on approach. The final section presents the techniques, sequence and preliminary results of applications in other areas of the body including muscle, brain, lung, heart, and breast.

*Applied Psychology*

Routledge

Apoptosis is an essential process in embryonic development and

tissue homeostasis, particularly in the prevention of disease. Written from a genetic viewpoint, *Genetics of Apoptosis* first describes the molecular and cell biology of apoptosis, then examines the process in more detail in several model systems. This volume brings together contributions from internationally renowned authors, and will be a valuable reference to all researchers studying apoptosis.

**Islam** Frontiers Media SA

Includes entries for maps and atlases.

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– Books on Demand  
Cystic Fibrosis in the Light of New Research provides the latest research and clinical evidence that will be

useful for clinicians, scientists and researchers to further their knowledge around this fascinating condition. The authors have brought along their expertise and wealth of knowledge to produce this book, including the basic science that underlies the disease, the burden of bacterial and viral infections, immunologic aspects of CF, a variety of clinical measurements to predict prognosis and novel therapies including gene therapy. This book will be invaluable and entertaining for anyone who is involved in the care of patients with cystic fibrosis.

**Better Living With Dementia** Springer Nature

The book focuses on the management of

the aquatic environment. It is aimed at scientists, students, governmental officials and specialists dealing with groundwater and environment. Its main goal is to inform the reader of ideas, knowledge and experience in terms of a sustainable aquatic environment. The main topics are as follows: Water Bodies and Ecosystems; Climate Change and Water Bodies; Water quality and agriculture; Interaction of Surface and ground waters; Karst Hydrogeology; Continuous Media Hydrogeology; Fissured Rocks Hydrogeology; Hydrochemistry; Geothermics and thermal waters; The role of water in construction projects; Hydrology

**Longitudinal Data****Analysis** Garland

Science

"This book provides accessible treatment to state-of-the-art approaches to analyzing longitudinal studies.

Comprehensive coverage of the most popular analysis tools allows readers to pick and choose the techniques that best fit their research. The analyses are illustrated with examples from 12 major longitudinal data sets including practical information about their content and design. Illustrations from popular software packages offer tips on how to interpret the results. Each chapter features suggested readings for further study and a list of articles that further illustrate how to

implement the analysis and report the results. An accompanying website provides syntax examples for several software packages for each of the chapter examples. Although many of the examples address health or social science questions related to aging, readers from other disciplines will find the analyses relevant to their work. In addition to demonstrating statistical analysis of longitudinal data, the book shows how to interpret and analyze the results within the context of the research design. Although most chapters emphasize the use of large studies collected over long term periods, much of the book is also relevant to researchers who analyze data

collected in shorter time periods. The book opens with issues related to using publicly available data sets including a description of the goals, designs, and measures of the data. The next 10 chapters provide non-technical, practical introductions to the concepts and issues relevant to longitudinal analysis, including: weighting samples and adjusting designs for longitudinal studies; missing data and attrition; measurement issues related to longitudinal research; the use of ANOVA and regression for averaging change over time; mediation analysis for analyzing causal processes; growth curve models using multilevel regression; longitudinal hypotheses using

structural equation modeling (SEM); latent growth curve models for evaluating individual trajectories of change; dynamic SEM models of change; and survival (event) analysis. Examples from longitudinal data sets such as the Health and Retirement Study, the Longitudinal Study of Aging, and Established Populations for Epidemiologic Studies of the Elderly as well as international data sets such as the Canadian National Population Health Survey and the English Longitudinal Study of Aging, illustrate key concepts. An ideal supplement for graduate level courses on data analysis and/or longitudinal modeling taught in psychology, gerontology, human development, family

studies, medicine, sociology, social work, and other behavioral, social, and health sciences, this multidisciplinary book will also appeal to researchers in these fields."--

The Molecular and Cellular Basis of Neurodegenerative Diseases Columbia University Press

This book addresses what software architects and developers need to know in order to build applications based on blockchain technology, by offering an architectural view of software systems that make beneficial use of blockchains. It provides guidance on assessing the suitability of blockchain, on the roles blockchain can play in an architecture, on designing

blockchain applications, and on assessing different architecture designs and tradeoffs. It also serves as a reference on blockchain design patterns and design analysis, and refers to practical examples of blockchain-based applications. The book is divided into four parts: Part I provides a general introduction to the topic and to existing blockchain platforms including Bitcoin, Ethereum, and Hyperledger Fabric, and offers examples of blockchain-based applications. Part II focuses on the functional aspects of software architecture, describing the main roles blockchain can play in an architecture, as well as its potential suitability and design process. It includes a

catalogue of 15 design patterns and details how to use model-driven engineering to build blockchain-based applications. Part III covers the non-functional aspects of blockchain applications, which are cross-cutting concerns including cost, performance, security, and availability. Part IV then presents three detailed real-world use cases, offering additional insights from a practical perspective. An epilogue summarizes the book and speculates on the role blockchain and its applications can play in the future. This book focusses on the bigger picture for blockchain, covering the concepts and technical considerations in the design of blockchain-based applications. The

use of mathematical formulas is limited to where they are critical. This book is primarily intended for developers, software architects and chief information officers who need to understand the basic technology, tools and methodologies to build blockchain applications. It also provides students and researchers new to this field an introduction to this hot topic.

National Union Catalog

BoD – Books on Demand

The immune system provides the host organism with defense mechanisms against invading pathogens and tumor development and it plays an active role in tissue and organ regeneration.

Deviations from the

normal physiological functioning of the immune system can lead to the development of diseases with various pathologies including autoimmune diseases and cancer. Modern research in immunology is characterized by an unprecedented level of detail that has progressed towards viewing the immune system as numerous components that function together as a whole network. Currently, we are facing significant difficulties in analyzing the data being generated from high-throughput technologies for understanding immune system dynamics and functions, a problem known as the 'curse of dimensionality'. As the

mainstream research in mathematical immunology is based on low-resolution models, a fundamental question is how complex the mathematical models should be? To respond to this challenging issue, we advocate a hypothesis-driven approach to formulate and apply available mathematical modelling technologies for understanding the complexity of the immune system. Moreover, pure empirical analyses of immune system behavior and the system's response to external perturbations can only produce a static description of the individual components of the immune system and the interactions between them. Shifting our view of the

immune system from a static schematic perception to a dynamic multi-level system is a daunting task. It requires the development of appropriate mathematical methodologies for the holistic and quantitative analysis of multi-level molecular and cellular networks. Their coordinated behavior is dynamically controlled via distributed feedback and feedforward mechanisms which altogether orchestrate immune system functions. The molecular regulatory loops inherent to the immune system that mediate cellular behaviors, e.g. exhaustion, suppression, activation and tuning, can be analyzed using

mathematical categories such as multi-stability, switches, ultra-sensitivity, distributed system, graph dynamics, or hierarchical control. GB is supported by the Russian Science Foundation (grant 18-11-00171). AM is also supported by grants from the Spanish Ministry of Economy, Industry and Competitiveness and FEDER grant no. SAF2016-75505-R, the “María de Maeztu” Programme for Units of Excellence in R&D (MDM-2014-0370) and the Russian Science Foundation (grant 18-11-00171). *Research Report* Springer Science & Business Media  
This study sets out to investigate the role of small holder farmers



amidst the intervention of other actors in biotechnology innovation in the maize sub-sector, in Kenya. This exploratory research is a result of the challenges in understanding participation and the concept of public-private partnership in biotechnology innovation and its social construction. These challenges emerge as a result of a myriad of actors involved in biotechnology innovation. The study goes a step further to investigate the role of both human (social) and non-human (material) actors in the construction of biotechnology innovation in the maize sub-sector in Kenya. Here, focus is on the manoeuvres-

negotiations and distantiations as played out by various actors in the creation of partnerships and the shaping of social interaction and participation for the Gene Revolution in Kenya. This way the study dissects the understanding that biotechnology innovation is about more than just development and use of agricultural technology.

*Dendritic Cell and Macrophage Nomenclature and Classification* Frontiers Media SA

Richard Bulliet's timely account provides the essential background for understanding the contemporary resurgence of Muslim activism around the globe. Why, asks Bulliet, did Islam

become so rooted in the social structure of the Middle East and North Africa, as well as in those parts of Asia and Africa to which it spread after the tenth century? In assessing the historical evolution of Islamic society, Bulliet abandons the historian's typical habit of viewing Islamic history "from the center," that is, focusing on the rise and fall of imperial dynasties. Instead, he examines the question of how and why Islam became - and continues to be - so rooted in the social structure of the vast majority of people who lived far from the political center and did not see the caliphate as essential in their lives. Focusing on Iran, and especially the cities of Isfahan,

Gorgan, and Nishapur, Bulliet examines a wide range of issues, including religious conversion; migration and demographic trends; the changing functions and fortunes of cities and urban life; and the roots and meaning of religious authority. The origins of today's resurgence, notes Bulliet, are located in the eleventh century. "The nature of Islamic religious authority and the source of its profound impact upon the lives of Muslims - the Muslims of yesterday, of today, and of tomorrow - cannot be grasped without comprehending the historical evolution of Islamic society," he writes. "Nor can such a comprehension be gained from a cursory perusal of the central

narrative of Islam. The view from the edge is needed, because, in truth the edge ultimately creates the center."

*Inflammatory Immune Disease: Molecular Mechanisms, Translational Approaches and Therapeutics* John

Wiley & Sons

Protein

phosphorylation via protein kinases is an inevitable process that alters physiological and pathological functions of the cells. Thus, protein kinases play key roles in the regulation of cell life or death decisions.

Protein kinases are frequently a driving factor in a variety of human diseases including aging and cellular senescence, immune system and endothelial

dysfunctions, cancers, insulin resistance, cholestasis and neurodegenerative diseases, as well as bacterial resistance in persistent infections. Recent developments in quantitative proteomics provide important opinions on kinase inhibitor selectivity and their modes of action in the biological context. *Protein Kinase-mediated Decisions Between Life and Death* aims to have the reader catch insights about up-to-date opinions on "Protein Kinases" related pathways that threaten human health and life. As "Protein Kinases" are related to many health problems, clinicians, basic science researchers and students need this information. Chapter

“Signal Transduction in Immune Cells and Protein Kinases” is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

**Insights in thoracic oncology: 2021/2022**

Frontiers Media SA  
Acute inflammation is a highly regulated process, and its dysregulation can lead to the development of a chronic inflammatory state which is believed to play a main role in the pathogenesis of many diseases, including cancer. In recent years, the need to find new anti-inflammatory molecules has raised the scientific community’s interest for marine natural products. In this regard, the marine

environment represents a source for isolating a wealth of bioactive compounds. In this Special Issue, the reported products have been obtained from microalgae, sea cucumber, octopus, squid, red alga-derived fungus, cnidarians, hard-shelled mussel, and sponges. This Special Issue of Marine Drugs covers both the in vitro and in vivo studies of marine agents with anti-inflammatory activities, in addition to clinical trials conducted in humans. Among the bioactive molecules reported in the papers are lipid compounds, such as glycolipids, which, for the first time, demonstrated their preventive effects in an inflammatory model of skin hyperplasia. In

addition, beneficial effects of the carotenoid fucoxanthin were shown in the same model of skin hyperplasia, in UVB-induced damage and in a model of inflammatory pain. Moreover, frondanol, a lipid extract from *Cucumaria frondosa*, attenuated inflammation in an acute colitis model. Another paper evaluated the fatty acid compositions of lipid extracts from some common seafood organisms, reporting the highest level of omega 3 polyunsaturated fatty acids and the highest anti-inflammatory activity in the extracts from octopus and squid byproducts. Additionally, the anti-inflammatory effects of other marine

compounds have been reported, including hirsutanol A, a sesquiterpene from the red alga-derived marine fungus *Chondrostereum* sp. NTOU4196, two zoanthamine alkaloids from the zoantharian *Zoanthus* cf. *pulchellus*, an  $\alpha$ -D-glucan from the hard-shelled mussel (*Mytilus coruscus*), and the polyphenol pyrogallol-phloroglucinol-6,6-bieckol from an edible marine brown alga. Finally, this Special Issue is supplemented by three reviews focused on the occurrence of prostaglandins in the marine environment and their anti-inflammatory role; fish lipid emulsions used to improve patient outcomes in an inflammatory

environment, such as postoperative; and the chemically induced production of compounds with anti-inflammatory activity from microalgae.

**Ice Cream** Frontiers Media SA

This book describes the various therapeutic and commercial applications of compounds produced by endophytes.

Endophytes are microorganisms that reside in the living internal tissues of plants without showing any apparent symptom of their presence.

During their life cycle, they establish a symbiotic or parasitic relationship with the host plant. The book discusses different kinds of compounds that these endophytes produce, and their potential properties

such as antimicrobial, anti-oxidative, anti-inflammatory, anticancer, nutraceutical, immunomodulatory etc. Other prospects of entophytic biology such as fungi of wild and domesticated crop plants and their applications in sustainable agriculture have also been included. The book also provides details about various techniques used in endophyte research, metabolite detection and bioactivity-based assays to explore endophytes.

Endophytes with phytohormones-producing potential and their role in plant—microbial interactions under stress are also discussed. The book also highlights novel strategies to tap into

the hidden potential of endophytic fungi for the production of novel biomolecules using an integrated approach. These microorganisms have attracted a lot of scientific attention worldwide because of their huge potential for novel phytochemicals, pharmaceuticals and lead compounds. Hundreds of new novel endophytic fungi have been isolated, identified and systematically studied in last decade. However, this is the first of its kind, systematic compilation of potential biotechnological applications of endophytic compounds. Chapter contributions from groups across the globe make this book very up-to-date and informative. This book

is very useful and interesting for students and researchers in the field of microbiology, plant sciences, mycology and pharmacology. It is also helpful for industry experts working on developing novel compounds.

*Research Methodology*  
BoD – Books on Demand

A practical and easy-to-understand introduction to applied psychology In the newly revised second edition of Applied Psychology, distinguished psychologist and author Graham C. Davey delivers an accessible introduction to the main areas of applied psychology from the perspectives of practitioners and researchers in the United Kingdom,

Europe, and other parts of the world. It explains the core psychological knowledge and research that underpins the most commonly employed areas of applied psychology. This latest edition adds six brand-new chapters that cover emerging topics in applied psychology, as well as a chapter on teaching psychology, and extensive revisions to the individual clinical psychology chapters. The book is accompanied by a resource website that offers a wide range of teaching and learning features, including a test bank, instructor slides, and a collection of professional and training chapters. Readers will also find: Thorough introductions

to clinical, health, forensic, and educational psychology Comprehensive explorations of occupational, sport, and counselling psychology Practical discussions of coaching psychology, including the application of psychological theory during coaching Fulsome treatments of emerging topics in applied psychology, including environmental, consumer, and community psychology Perfect for Level 1 introductory psychology students, Applied Psychology will also benefit Level 2 and 3 students seeking core theoretical and professional information highly relevant to their future practice.