

# Understanding the relevance of herb–drug interaction studies with special focus on interplays: a prerequisite for integrative medicine

Swapnil P. Borse, BPharm, PhD<sup>a,b</sup>, Devendra P. Singh, MPharm, PhD<sup>a,b</sup>, Manish Nivsarkar, PhD<sup>a,\*</sup>

## Abstract

Integrative medicine refers to the blending of conventional and evidence-based complementary medicines and therapies with the aim of using the most appropriate of either or both modalities for ultimate patient benefits. One of the major hurdles for the same is the chances of potential herb–drug interactions (HDIs). These HDIs could be beneficial or harmful, or even fatal; therefore, a thorough understanding of the eventualities of HDIs is essential so that a successful integration of the modern and complementary alternative systems of medicine could be achieved. Here, we summarize all the important points related to HDIs, including types, tools/methods for study, and prediction of the HDIs, along with a special focus on interplays between drug metabolizing enzymes and transporters. In addition, this article covers future perspective, with a focus on background endogenous players of interplays and approaches to predict the drug–disease–herb interactions so as to fetch the desired effects of these interactions.

**Keywords:** Ayurveda, drug metabolizing enzymes–transporter interplays, herb–drug–disease interactions, integrative medicine

## Introduction

Modern system of medicine has emerged as the primary choice for the treatment of nearly all types of health-related issues, although, it is mainly based on the nonholistic/bug killing/target-based approach, which ultimately leads to future side effects (notable in case of chronic disorders such as cancer, diabetes, arthritis, etc.).<sup>1–3</sup> However, patients with such chronic illnesses directly/indirectly undergo combinational/multimodal therapy with or without the knowledge of physicians, leading to potential herb–drug interactions (HDIs).<sup>1</sup> The MD Anderson Cancer Centre, in USA, reported that 52% of their cancer patients had used at least one form of complementary and alternative medicine (CAM), and 77% of those were using herbs.<sup>4</sup> While, according to the World Health Organization (WHO) and other reviews >80% world's population uses CAM for their health care needs and particularly in western countries CAM has become increasingly popular over the last few decades.<sup>1–5</sup> However,

concomitant usage of herbs and conventional medicines globally could be much higher as healthcare professionals often do not ask about herbal remedies when prescribing and patients do not volunteer that they are taking them.<sup>1,7–11</sup> Indeed, such a scenario of concomitant usage of herbs/CAM and conventional medicines brings with it the potential problem of HDIs and this issue has emerged as a major hurdle/problem in our journey toward integrative medicine (IM).<sup>1,12,13</sup> IM refers to the blending of conventional and evidence-based complementary medicines and therapies with the aim of using the most appropriate of either or both modalities for efficient patient care.<sup>14</sup> In short, IM uses all appropriate, evidence-based therapies to achieve health.<sup>15</sup> For example, *Withania somnifera*, have been widely accepted as a novel complementary therapy for integrative oncology care.<sup>16</sup> *W. somnifera* not only helps in controlling the tumor growth but also exerts antioxidant, anti-inflammatory, immunomodulating, and antistress properties that help in combating the cancer and associated complications. It has also been found that, *W. somnifera* enhances the effectiveness of radiation therapy and chemotherapy while potentially mitigating their undesirable side effects.<sup>16–18</sup> Similar experiences were also observed by Patil et al and Borse et al for *Asparagus racemosus* and/or *Tinospora cordifolia* accepted as novel complementary therapy for integrative oncology care.<sup>19–22</sup> IM/care practices are getting increased day by day throughout the world. For instance, IM is being practiced at BSDT's Ayurvedic Hospital & Research Centre, India, The Osler Center for Integrative Medicine, Arizona Center for Integrative Medicine, and many other places in the world.<sup>23–26</sup> However, integrative management of the disease is far bigger challenge in spite of high scientific efforts proceeding globally mainly because of the potential risk associated with HDIs.<sup>27–33</sup> Hence, the focus needs to be shifted on potential interactions between herbs and pharmaceuticals because of the growing popularity of herbal medicines/CAM. Here, it must be highlighted that the probability of HDIs can be much higher than drug–drug interactions, since most herbal medicines (even single-herb products) contain mixtures of pharmacologically active

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<sup>a</sup> Department of Pharmacology and Toxicology, B.V. Patel Pharmaceutical Education and Research Development (PERD) Centre, Thaltej, <sup>b</sup> NARM University, Sarkhej-Gandhinagar Highway, Ahmedabad, Gujarat, India.

\* Corresponding author, B.V. Patel Pharmaceutical Education and Research Development (PERD) Centre, S. G. Highway, Thaltej, Ahmedabad, Gujarat 380054, India. E-mail address: manishnivsarkar@gmail.com (Manish Nivsarkar).

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# Interaction Studies Journal

**Robert H. Korkegi**



## **Interaction Studies Journal:**

Viscous Flow Interaction Studies Robert H. Korkegi, 1975 The research was designed to gain understanding of the flow of air at high speeds over the components of lifting supersonic and hypersonic vehicles wings flaps fins inlets and their interactions with respect to heating surface friction pressure and aerodynamic forces The objective was to help predict a flows on complex aerospace vehicle configurations in high speed flight and b the location of areas of high heating The research covers the areas of laminar and turbulent boundary layers boundary layer transition boundary layer separation base flows and wakes low density flows three dimensional interactions viscous flow problems and some flow measurement techniques

**Studying Interpersonal Interaction** Barbara M. Montgomery, Steve Duck, 1993-11-01 This volume presents a comprehensive critical examination of current research methods used to study human social behavior as it occurs in interpersonal settings such as families acquaintanceships friendships and romantic partnerships Multidisciplinary in approach the book s chapters are written by leading figures in communication social psychology sociology and family studies who explore the methodological choices a researcher must make in order to study interpersonal interaction To permit clear comparison all chapters in this volume reference the same common research problem to develop examples illustrate controversial issues and describe the potential of the particular method under discussion Written in an accessible style chapters openly discuss the strengths and weaknesses of each method consider underlying philosophy and assumptions and note limitations as well as advantages The result is an originally crafted work that offers readers a unique way to learn about compare and ultimately judge the many methods presently available to the researcher or student of interpersonal interaction Part I considers the assumptions researchers must make about the nature of a social interaction in order to study it Chapters address issues related to formulating research problems choosing a research paradigm determining a viewpoint participant peer or observer from which to gather data deciding on appropriate levels and units of analysis incorporating time and assessing the mutual adaptation that characterizes interpersonal communication Part II focuses on procedures for gathering data These include using accounts and narratives logs and diaries retrospective self reports discourse records direct observation and experimentation Part III highlights new and newly re discovered methods for analyzing interaction data Assuming that the reader is familiar with traditional regression and mean differences approaches chapters build on this knowledge base to discuss content analysis tests of sequential association in categorical data ways of dealing with interdependence in dyadic data and longitudinal analytic techniques such as time series analysis phasic analysis and meta analysis The book concludes with a chapter that both summarizes previous chapters and convincingly argues for methodological pluralism Encompassing the broad range of central concerns in designing research studies from conceptualization through assessment to data analysis this book is an ideal reference source for all those engaged in actual research projects It is also highly valuable for advanced undergraduate and graduate methods courses

An Introduction to

Interaction Angela Cora Garcia, 2023-04-20 An engaging introduction to the study of spoken interaction this book provides a thorough grounding in the theory and methodology of conversation analysis It covers data collection techniques for analysis and practical applications and guides students through foundational and new research findings on everyday conversations and talk in institutional contexts from media business and education to healthcare and law Now thoroughly updated to showcase contemporary developments in the field this second edition includes New chapters on interaction in psychotherapy educational settings and language learning and teaching Expanded coverage of doctor patient communications customer service and business meetings workplace interviews and online interactions including social media video gaming and livestreams A wider variety of research on other languages including French German Italian Finnish Swedish Arabic Korean Chinese and Japanese Multimodal analyses of interaction focusing on the integration of embodied action and talk Complete with student activities recommended reading sections and a companion website featuring slides quiz questions and links to further transcripts this book is an essential guide for doing conversation analysis and offers fresh insight into how we understand talk     **Advancements of Mass Spectrometry in Biomedical Research** Alisa G. Woods, Costel C.

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Zaga, Nazli Cila, Selma Šabanović, Malte F. Jung, 2024-11-28 Developing robots to interact with humans is a complex interdisciplinary effort While engineering and social science perspectives on designing human robot interactions HRI are readily available the body of knowledge and practices related to design specifically interaction design often remain tacit Designing Interactions with Robots fills an important resource gap in the HRI community and acts as a guide to navigating design specific methods tools and techniques With contributions from the field's leading experts and rising pioneers this collection presents state of the art knowledge and a range of design methods tools and techniques which cover the various phases of an HRI project This book is accessible to an interdisciplinary audience and does not assume any design knowledge It provides actionable resources whose efficacy have been tested and proven in existing research This manual is essential for HRI design students researchers and practitioners alike It offers crucial guidance for the processes involved in robot and HRI design marking a significant stride toward advancing the HRI landscape The Open Access version of this book available at

<http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license      Longitudinal Studies on the Organization of Social Interaction Simona Pekarek

Doehler, Johannes Wagner, Esther González-Martínez, 2018-02-14 This book advances our understanding of change over time in human social conduct and represents the first consolidated effort to reveal how micro analytic studies of social interaction address such issues. The book presents a collection of longitudinal studies drawing on conversation analysis across a variety of settings, practices, languages and timescales and analyses the ways in which participants produce and deal with practices changing over time. This edited collection will interest students and scholars of conversation analysis, sociolinguistics,

discourse analysis, interactional linguistics and pragmatics      **Higher Education: Handbook of Theory and Research**

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Bushnell, Stephen J. Moody, 2023-12-14 Bushnell and Moody present a rich investigation into the navigation of friendships adopting discursive and ethnographic perspectives to examine Japanese, Chinese, Korean and English interactional data. Since the definition of friendship is hard to pin down, most sociocultural anthropologists have tended to focus on issues of kinship and descent while leaving friendship as a residual or interstitial issue. However, this book puts friendship as the central focus and offers unique perspectives from the participants themselves. The interactional work implicated in the accomplishment of making and being friends and the trials and tribulations of friendship are both explored through the many detailed analyses showing how the participants navigate the calm and rough waters of friendship in and through their everyday interactions. Researchers, undergraduates and postgraduate students in the fields of conversation analysis, pragmatics and other social sciences will benefit from the real life examples in the book as well as the analysis      Foundations and Fundamentals in

Human-Computer Interaction Constantine Stephanidis, Gavriel Salvendy, 2024-08-02 This book serves as a foundation to the field of HCI, equipping readers with the necessary knowledge and skills to engage in this field. This book discusses human functionalities and characteristics relevant to interaction, including sensory perception, attention and memory, language and

communication emotions decision making as well as mental models human error and human actions Explores the evolution of HCI design approaches and the role of social and organizational psychology in HCI Discusses key concepts and societal aspects of interactive technologies such as user acceptance ethics privacy and trust Covers the historical background contributing disciplines essential concepts and theories within the domain This book will appeal to individuals interested in Human Computer Interaction research and applications **Routledge Handbook of Applied Communication Research**

Lawrence R. Frey, Kenneth N. Cissna, 2009-07-21 The Routledge Handbook of Applied Communication Research provides a state of the art review of communication scholarship that addresses real world concerns issues and problems This comprehensive examination of applied communication research including its foundations research methods employed significant issues confronted important contexts in which such research has been conducted and overviews of some exemplary programs of applied communication research shows how such research has and can make a difference in the world and in people s lives The sections and chapters in this Handbook explain what constitutes applied communication scholarship encompassing a wide range of approaches and clarifying relationships among theoretical perspectives methodological procedures and applied practices demonstrate the breadth and depth of applied communication scholarship review and synthesize literature about applied communication areas and topics in coherent innovative and pedagogically sound ways set agendas for future applied communication scholarship Unique to this volume are chapters presenting exemplary programs of applied communication research that demonstrate the principles and practices of such scholarship written by the scholars who conducted the programs As an impressive benchmark in the ongoing growth and development of communication scholarship editors Lawrence R Frey and Kenneth N Cissna provide an exceptional resource that will help new and experienced scholars alike to understand appreciate and conduct high quality communication research that can positively affect people s lives **Issues in Chemistry and General Chemical Research: 2012 Edition**, 2013-01-10

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There are not many textbooks available if any that can match this book s intelligence *Handbook of Constructionist*

*Research* James A. Holstein, Jaber F. Gubrium, 2008-01-01 Constructionism has become one of the most popular research approaches in the social sciences But until now little attention has been given to the conceptual and methodological underpinnings of the constructionist stance and the remarkable diversity within the field This cutting edge handbook brings together a dazzling array of scholars to review the foundations of constructionist research how it is put into practice in multiple disciplines and where it may be headed in the future The volume critically examines the analytic frameworks strategies of inquiry and methodological choices that together form the mosaic of contemporary constructionism making it an authoritative reference for anyone interested in conducting research in a constructionist vein     Expanding Individual Difference Research in the Interaction Approach Laura Gurzynski-Weiss, 2017-12-12 Expanding Individual Difference Research in the Interaction Approach Investigating learners instructors and other interlocutors demonstrates why investigating the individual differences of all interlocutors with whom learners interact including peer and heritage learners instructors researchers and native speakers is critical to understanding how second and foreign languages are taught and learned Through state of the art syntheses detailing what is known about learners and instructors and novel empirical studies highlighting new avenues of inquiry the volume articulates the most pressing needs for individual difference research The book concludes with a scoping review which reveals the many interlocutors still yet to be empirically considered and outlines next steps for this research Uniquely combining linguistic theory research synthesis and empirical study this book encourages students and established scholars alike to expand their conceptualization of individual differences By demonstrating the importance of considering the individual differences of all interlocutors the studies are also highly relevant to those teaching second and foreign languages in diverse contexts     Embodied Interaction Jürgen Streeck, Charles Goodwin, Curtis D. LeBaron, 2011-08-15 Leading international scholars provide a coherent framework for analyzing body movement and talk in the production of meaning     Gene-Environment Transactions in Developmental Psychopathology Patrick H. Tolan, Bennett L. Leventhal, 2017-04-29 This book examines the current research in gene environment transactions GEX and its potential use in developing interventions and applications tailored to individual genetic makeups Key concepts underlying GEX studies in this area are defined identifying fundamental challenges in devising informed research questions and conducting valid and useful experiments Chapters analyze GEX models inspired by the present day genome based frameworks particularly in terms of advances in identifying and understanding complex environmental factors using examples from common psychological conditions such as antisocial behavior chronic physical aggression and chronic internalizing disorder In addition the book presents new and potential applications of the framework in the contexts of prevention science and intervention research Topics featured in this book include Epigenetics and the biology of gene x environment interactions Gene by environment interactions and its potential use for intervention strategies in anxiety disorders The challenges and potential for research on gene environment interactions within autism spectrum

disorder Using genetically informed prevention trials to test gene x environment hypothese Challenges for intervention research within the GEX framework Gene Environment Transactions in Developmental Psychopathology is a must have resource for researchers professors clinicians and related professionals as well as graduate students in developmental psychology psychiatry human genetics and related disciplines

INTRODUCTION TO DISCOURSE ANALYSIS Nursetia Manalu, Zara Mahfuza Tiara Akmal, Khairunnisa Azzahra,2025-03-24 Introduction to Discourse Analysis provides an in depth exploration of how language functions in various social and communicative contexts Discourse analysis is not merely the study of linguistic structures but also an investigation into how meaning is constructed maintained and contested in social interactions This book highlights that language is much more than just a communication tool it shapes social reality influences thought patterns and can even be used as an instrument of power By integrating approaches from disciplines such as linguistics sociology anthropology and philosophy the book aims to offer a comprehensive understanding of how discourse operates in daily life whether in written texts conversations media or digital communication This book is systematically structured with each chapter addressing specific aspects of discourse analysis Some key chapters examine the structure of interaction and speech functions explaining how conversations follow social rules Another chapter discusses Speech Act Theory which illustrates how a speaker s intended meaning can differ from the literal meaning of their words The book also delves into Critical Discourse Analysis emphasizing how language can reinforce or challenge power structures in society such as in political speeches media reports or advertisements Additionally it explores Conversation Analysis helping readers understand how individuals manage turn taking resolve misunderstandings and sustain interactions Furthermore the book discusses the role of discourse in education particularly in language teaching and learning As a multidisciplinary study this book significantly contributes to understanding how language operates in various social contexts Readers including academics students researchers and communication practitioners will gain deeper insights into how language is used to shape public opinion control narratives in the media and influence societal perceptions of different issues By understanding discourse analysis readers can develop a more critical perspective in interpreting texts and speech identifying bias in communication and recognizing how power and ideology function within language Overall Introduction to Discourse Analysis provides a comprehensive understanding of how language is not just a communication tool but also an instrument that shapes social and cultural structures The book emphasizes that meaning in language is not fixed but constantly negotiated through social interactions Therefore mastering discourse analysis is a crucial skill in an increasingly complex and interconnected world With its discussion of various approaches and case studies this book serves as a valuable resource for anyone interested in exploring how language and discourse shape our understanding of the world

*21st Century Sociology: A Reference Handbook* Clifton D. Bryant,Dennis L. Peck,2007 Publisher Description

**Human-Computer Interaction** Constantine Stephanidis,Gavriel Salvendy,2024-09-28 The pervasive influence of technology continuously



shapes our daily lives From smartphones to smart homes technology is revolutionizing the way we live work and interact with each other Human computer interaction HCI is a multidisciplinary research field focusing on the study of people interacting with information technology and plays a critical role in the development of computing systems that work well for the people using them ensuring the seamless integration of interactive systems into our technologically driven lifestyles The book series contains six volumes providing extensive coverage of the field wherein each one addresses different theoretical and practical aspects of the HCI discipline Readers will discover a wealth of information encompassing the foundational elements state of the art review in established and emerging domains analysis of contemporary advancements brought about by the evolution of interactive technologies and artificial intelligence as well as the emergence of diverse societal needs and application domains These books Showcase the pivotal role of HCI in designing interactive applications across a diverse array of domains Explore the dynamic relationship between humans and intelligent environments with a specific emphasis on the role of Artificial Intelligence AI and the Internet of Things IoT Provide an extensive exploration of interaction design by examining a wide range of technologies interaction techniques styles and devices Discuss user experience methods and tools for the design of user friendly products and services Bridge the gap between software engineering and human computer interaction practices for usability inclusion and sustainability These volumes are an essential read for individuals interested in human computer interaction research and applications

#### **Ageing Identities and Women's Everyday Talk in a Hair Salon**

Rachel Heinrichsmeier, 2020-01-14 The ageing of the world's populations particularly in Western developed countries is a well documented phenomenon and despite many positive images of later life in the media and public discourse later life is frequently depicted as a time of inevitable physical and cognitive decline Against this background Heinrichsmeier presents the results of her two year sociolinguistic study examining how a group of older women of different ages negotiated their way through their own and others expectations of ageing and constructed different kinds of older and other identities for themselves Through vivid and nuanced analysis of their chat and practices in a small village hair salon Heinrichsmeier reveals these women's subtle and skilful manipulation of stereotypes of ageing and the impact of the evolving talk on their identity constructions Her study which provides numerous short extracts of talk in both the hair salon and interview along with more detailed case studies highlights the importance of such apparently trivial sites for both studying older people's identity work and as loci for positive identity constructions and well being in later life This book will be of particular interest to graduate students and scholars working in sociolinguistics discourse analysis conversation analysis and gerontological studies as well as those interested in approaches integrating ethnography and language

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