[MOBI] An Introduction To Scientific Research E Bright Wilson

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An Introduction to Scientific Research-E. Bright Wilson 2012-06-14 Exceptionally useful guide to pragmatic scientific method: design of experiments and apparatus, analysis of data, sampling and measurement, numerical computation, much more. Broad applications. References. Illustrations.

An Introduction to Scientific Research Methods in Geography and Environmental Studies-Daniel Montello 2012-12-26 This revised, updated, and extended Second Edition of An Introduction to Scientific Research Methods in Geography and Environmental Studies provides a broad and integrative introduction to the conduct and interpretation of scientific research in geography. It explains both, the conceptual and the technical aspects of research, as well as all phases of the research process. As in the previous edition, the authors use a framework - of a natural and social scientific approach - common to all subjects in geography. In this edition new material is included on “Computational Modeling”, as well as more information about GPS and map projections, as well as an expanded chapter on Scientific Communication to present more guidance on writing a literature review.

An Introduction to Scientific Research Methods in Geography and Environmental Studies-Daniel Montello 2012-12-10 "Covers a broad range of subjects that undergraduates in the discipline should be familiar and comfortable with upon graduation. From chapters on the scientific method and fundamental research concepts, to experimental design, sampling and statistical analysis, the text offers an excellent introduction to the key concepts of geographical research. The content is applicable for students at the beginning of their studies right through to planning and conducting dissertations. The book has also been of particular support in designing my level 1 and 2 tutorials which cover similar ground to several of the chapters." - Joseph Mallalieu, School of Geography, Leeds University "Montello and Sutton is one of the best texts I've used in seminars on research methodology. The text offers a clear balance of quantitative vs. qualitative and physical vs. human which I've found particularly valuable. The chapters on research ethics, scientific communication, information technologies and data visualization are excellent." - Kenneth E. Foote, Department of Geography, University of Colorado at Boulder This is a broad and integrative introduction to the conduct and interpretation of scientific research, covering both geography and environmental studies. Written for undergraduate and postgraduate students, it: Explains both the conceptual and the technical aspects of research, as well as all phases of the research process Combines approaches in physical geography and environmental science, human geography and human-environment relations, and geographic and environmental information techniques (such as GIS, cartography, and remote sensing) Combines natural and social scientific approaches common to subjects in geography and environmental studies Includes case studies of actual research projects to demonstrate the breadth of approaches taken It will be core reading for students studying scientific research methods in geography, environmental studies and related disciplines such as planning and earth science.

An Introduction to Scientific Research Methods in Geography-Daniel Montello 2006-03-06 This text provides a broad and integrative introduction to the conduct and interpretation of scientific research in geography. It covers both conceptual and technical aspects, and is applicable to all topical areas in geographic research, including human and physical geography, and geographic information science. The text discusses all parts of the research process, including scientific philosophy; basic research concepts; generating research ideas; communicating research and using library resources; sampling and research design; quantitative and qualitative data collection; data analysis, display, and interpretation; reliability and validity; using geographic information techniques in research; and ethical conduct in research.

Introduction to Scientific Research Projects-

Conflict, War, and Peace-Sara McLaughlin Mitchell 2013-08-16 Introducing students to the scientific study of peace and war, Conflict, War, and Peace: An Introduction to Scientific Research, edited by Sara McLaughlin Mitchell and John A. Vasquez, provides an overview of current scholarship in this dynamic area of study. Focusing on the factors that shape relationships between countries and that make war or peace more likely, this collection of articles by top scholars explores such key topics as dangerous dyads, alliances, territorial disputes, rivalry, arms races, democracy peace, trade, international organizations, territorial peace, and nuclear weapons. Each article is followed by the editors’ commentary: a “Major Contributions” section highlights the article’s theoretical advances and relates each study to the broader literature, while a “Methodological Notes” section carefully walks students through the techniques used in the analysis. Methodological topics include research design, percentages, probabilities, odds ratios, statistical significance, levels of analysis, selection bias, logic, duration models, and game theory models.

Statistics and Scientific Method-Peter J. Diggle 2011-08-11 An antidote to technique-orientated approaches, this text avoids the recipe-book style, giving the reader a clear understanding of how core statistical ideas of experimental design, modelling, and data analysis are integral to the scientific method. No prior knowledge of statistics is required and a range of scientific disciplines are covered.

An Introduction to Scientific Research in Librarianship-Herbert Goldhor 1972

An Introduction to Science Studies-John M. Ziman 1987-07-23 The purpose of this book is to give a coherent account of the different perspectives on science and technology that are normally studied under various disciplinary heads such as philosophy of science, sociology of science and science policy. It is intended for students embarking on courses in these subjects and assumes no special knowledge of any science. It is written in a direct and simple style, and technical language is introduced very sparingly. As various perspectives are sketched out in this book, the reader moves towards a consistent conception of contemporary science as a rapidly changing social institution that has already grown out of its traditional forms and plays a central role in society at large. It will appeal to students in a wide range of scientific disciplines and complement well Professor Ziman's earlier books.

An Introduction to Science and Technology Studies-Sergio Sismondo 2011-08-17 An Introduction to Science and Technology Studies, Second Edition reflects the latest advances in the field while continuing to provide students with a road map to the complex interdisciplinary terrain of science and technology studies. Distinctive in its attention to both the underlying philosophical and sociological aspects of science and technology Explores core topics such as realism and social construction, discourse and rhetoric, objectivity, and the public understanding of science Includes numerous empirical studies and illustrative examples to elucidate the topics discussed Now includes new material on political economies of scientific and technological knowledge, and democratizing technical decisions Other features of the new edition include improved readability, updated references, chapter reorganization, and more material on medicine and technology

The Ethics of Science-David B. Resnik 2005-08-12 Ethics of Science is a comprehensive and student-friendly introduction to the study of ethics in science and scientific research. The book covers: * Science and Ethics * Ethical Theory and Applications * Science as a Profession * Standards of Ethical Conduct in Science * Objectivity in Research * Ethical Issues in the Laboratory * The Scientist in Society * Toward a More Ethical Science * Actual case studies include: Baltimore Affair * cold fusion * Milikan's oil drop experiments * human and animal cloning * Cold War experiments * Strategic Defence Initiative * the Challenger accident * Tobacco Research.

Introduction to Research Methods-Bora Pajo 2017-07-28 Introduction to Research Methods: A Hands-On Approach makes learning research methods easy for students by giving them activities they can experience and do on their own. With clear, simple, and even humorous prose, this text offers students a straightforward introduction to an exciting new world of social science and behavioral research. Rather than making research seem intimidating, author Bora Pajo shows students how research can be an easy, ongoing conversation on topics that matter in their lives. Each chapter includes real research examples that illustrate specific topics that the chapter covers, guides that help students explore actual research challenges in more depth, and ethical considerations relating to specific chapter topics. 3 Reasons Why You’ll Want to Read This Book 1. Conducting research can be fun when you see it in terms that relate to your everyday life. 2. Knowing how to do research will open many doors for you in your career. It will open your mind to new ideas on what you might pursue in the future (e.g., becoming an entrepreneur, opening your own nongovernmental organization, or running your own health clinic), and give you an extra analytic skill to brag about in your job interviews. 3. Understanding research will make you an educated consumer. You will be able to evaluate the information before you and determine what to accept and what to reject. Truth be told, understanding research will save you money in the short and long term*. *From Chapter 1 of Introduction to Research Methods: A Hands-On Approach

A Critical Introduction to Scientific Realism-Paul Dicken 2016-07-28 What are the reasons for believing scientific theories to be true? The contemporary debate around scientific realism exposes questions about the very nature of scientific knowledge. A Critical Introduction to Scientific Realism explores and advances the main topics of the debate, allowing epistemologists to make new connections with the philosophy of science. Moving from its origins in logical positivism to some of the most recent issues discussed in the literature, this critical introduction covers the no-miracles argument, the pessimistic meta-induction and structural realism. Placing arguments in their historical context, Paul Dicken approaches scientific realism debate as a particular instance of our more general epistemological investigations. The recurrent theme is that the scientific realism debate is in fact a pseudo-philosophical question. Concerned with the methodology of the scientific realism debate, Dicken asks what it means to offer an epistemological assessment of our scientific practices. Taking those practices as a guide to our epistemological reflections, A Critical Introduction to Scientific Realism fills a gap in current introductory texts and presents a fresh approach to understanding a crucial debate.

Forensic Science-Stuart H. James 2014-01-13 Covering a range of fundamental topics essential to modern forensic investigation, the fourth edition of the landmark text Forensic Science: An Introduction to Scientific and Investigative Techniques presents contributions from experts in the field who discuss case studies from their own personal files. This edition has been thoroughly updated to r

Doing Research in Political Science-Paul Pennings 2005-11-11 This is an immensely helpful book for students starting their own research... an excellent introduction to the comparative method giving an authoritative overview over the research process - Klaus Armingeon, University of Bern Doing Research in Political Science is the book for mastering the comparative method in all the social sciences - Jan-Erik Lane, University of Geneva This book has established itself as a concise and well-readable text on comparative methods and statistics in political science I...strongly recommend it. - Dirk Berg-Schlosser, Philipps-University Marburg This thoroughly revised edition of the popular textbook offers an accessible but comprehensive introduction to comparative research methods and statistics for students of political science. Clearly organized around three parts, the text introduces the main theories and methodologies used in the discipline. Part 1 frames the comparative approach within the methodological framework of the political and social sciences. Part 2 introduces basic descriptive and inferential statistical methods as well as more advanced multivariate methods used in quantitative political analysis. Part 3 applies the methods and techniques of Parts 1 & 2 to research questions drawn from contemporary themes and issues in political science. Incorporating practice exercises, ideas for further reading and summary questions throughout, Doing Research in Political Science provides an invaluable step-by-step guide for students and researchers in political science, comparative politics and empirical political analysis.

An Introduction to Qualitative Research Synthesis-Claire Howell Major 2012-09-10 Providing a comprehensive guide for understanding, interpreting and synthesizing qualitative studies, An Introduction to Qualitative Research Synthesis shows how data can be collated together effectively to summarise existing bodies of knowledge and to create a more complete picture of findings across different studies The authors describe qualitative research synthesis and argue for its use, describing the process of data analysis, synthesis and interpretation and provide specific details and examples of how the approach works in practice. This accessible book: fully explains the qualitative research synthesis approach; provides advice and examples of findings; describes the process of establishing credibility in the research process; provides annotated examples of the work in process; references published examples of the approach across a wide variety of fields. Helping researchers to understand, make meaning and synthesize a wide variety of datasets, this book is broad in scope yet practical in approach. It will be beneficial to those working in social science disciplines, including researchers, teachers, students and policy makers, especially those interested in methods of synthesis such as meta-ethnography, qualitative meta-analysis, qualitative meta-synthesis, interpretive synthesis, narrative synthesis, and qualitative systematic review.

Reproducibility and Replicability in Science-National Academies of Sciences, Engineering, and Medicine 2019-10-20 One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

Science Communication: An Introduction-Frans Van Dam 2020-03-05 'The book provides a concise, informative, comprehensive, and current overview of key issues in the field of science communication, the background of science communication, its theoretical bases, and its links to science communication practice. Especially the link between theory / research and practice is very well developed in the book and in the individual chapters. I think that is valuable for both readers new to the field of science communication, but also for those who identify with only one of these sides ... it is indeed a comprehensive and concise overview, convincing in its aim to link theory, research, and practice and I will definitely use it for my lectures on science communication.'JCOM - Journal of Science CommunicationA concise, coherent and easily readable textbook about the field of science communication, connecting the practice of science communicators with theory. In the book, recent trends and shifts in the field resonate, such as the transition from telling about science to interacting with the public and the importance of science communication in health and environmental communication. The chapters have been written by experts in their disciplines, coming from philosophy of science and communication studies to health communication and science journalism. Cases from around the world illustrate science communication in practice. The book provides a broad, up-to-date and coherent introduction to science communication for both, students of science communication and related fields, as well as professionals.Related Link(s)

An Introduction to High-Pressure Science and Technology-Jose Manuel Recio 2016-01-05 An Introduction to High-Pressure Science and Technology provides you with an understanding of the connections between the different areas involved in the multidisciplinary science of high pressure. The book reflects the deep interdisciplinary nature of the field and its close relationship with industrial applications.Thirty-nine specialists in high

Archaeological Science-Michael Richards 2020-01-16 An accessible and wide-ranging introduction to the exciting and expanding field of archaeological science, for students, professionals and academics.

On Being a Scientist-Institute of Medicine 2009-03-24 The scientific research enterprise is built on a foundation of trust. Scientists trust that the results reported by others are valid. Society trusts that the results of research reflect an honest attempt by scientists to describe the world accurately and without bias. But this trust will endure only if the scientific community devotes itself to exemplifying and transmitting the values associated with ethical scientific conduct. On Being a Scientist was designed to supplement the informal lessons in ethics provided by research supervisors and mentors. The book describes the ethical foundations of scientific practices and some of the personal and professional issues that researchers encounter in their work. It applies to all forms of research-whether in academic, industrial, or governmental settings-and to all scientific disciplines. This third edition of On Being a Scientist reflects developments since the publication of the original edition in 1989 and a second edition in 1995. A continuing feature of this edition is the inclusion of a number of hypothetical scenarios offering guidance in thinking about and discussing these scenarios. On Being a Scientist is aimed primarily at graduate students and beginning researchers, but its lessons apply to all scientists at all stages of their scientific careers.

An Introduction to the Study of Experimental Medicine-Claude Bernard 2012-10-17 The basic principles of scientific research from the great French physiologist whose contributions in the 19th century included the discovery of vasomotor nerves; nature of curare and other poisons in human body; more.

An Introduction to the Philosophy of Science-Lisa Bortolotti 2008-12-03 This book is an excellent introduction to philosophy for students and provides researchers of scientific disciplines with an opportunity to reflect upon the value and impact of their work. It is also a stimulating read for anybody who is interested in the philosophical issues raised by the status of scientific knowledge in contemporary society.

Introduction to Scientific Programming and Simulation Using R-Owen Jones 2014-06-12 Learn How to Program Stochastic ModelsHighly recommended, the best-selling first edition of Introduction to Scientific Programming and Simulation Using R was lauded as an excellent, easy-to-read introduction with extensive examples and exercises. This second edition continues to introduce scientific programming and stochastic modelling in a clear,

An Introduction to Scientific Research-Edgar Bright Wilson 1952

An Introduction to Ceramic Science-D. W. Budworth 2016-01-22 An Introduction to Ceramic Science covers the principles of ceramic science, the physicochemical system, and atomic mechanisms of ceramics. This book is organized into eight chapters and begins with a study of atoms and the way in which they bond together to form crystalline solids. This topic is followed by a geometrical description of the structures of some crystals of particular importance in ceramics and some of the features of the elementary classical theory of ionic crystals. The following chapter presents the principles of the thermodynamic and phase diagram approaches to study phase equilibrium in ceramics. A chapter is devoted to the microstructure and porosity of ceramics. The discussion then shifts to several atomic movements in dense ceramics, such as diffusion, nucleation, and grain growth. The concluding chapters examine the mechanical properties and densification processes in ceramics. This book is of great value to ceramists, scientists, researchers, and undergraduate students who are interested in improving ceramic materials for particular applications.

Science Journalism-Martin W Angler 2017-06-14 Science Journalism: An Introduction gives wide-ranging guidance on producing journalistic content about different areas of scientific research. It provides a step-by-step guide to mastering the practical skills necessary for covering scientific stories and explaining the business behind the industry. Martin W. Angler, an experienced science and technology journalist, covers the main stages involved in getting an article written and published; from choosing an idea, structuring your pitch, researching and interviewing, to writing effectively for magazines, newspapers and online publications. There are chapters dedicated to investigative reporting, handling scientific data and explaining scientific practice and research findings to a non-specialist audience. Coverage in the chapters is supported by reading lists, review questions and practical exercises. The book also includes extensive interviews with established science journalists, scholars and scientists that provide tips on building a career in science journalism, address what makes a good reporter and discuss the current issues they face professionally. The book concludes by laying out the numerous available routes into science journalism, such as relevant writing programs, fellowships, awards and successful online science magazines. For students of journalism and professional journalists at all levels, this book offers an invaluable overview of contemporary science journalism with an emphasis on professional journalistic practice and success in the digital age.

An Introduction to the Philosophy of Science-Kent W. Staley 2014-11-06 This book explores central philosophical concepts, issues, and debates in the philosophy of science, both historical and contemporary.

Introduction to Research in the Health Sciences - E-Book-Stephen Polgar 2019-08-31 Now in its 7th edition this textbook is a must have for any health professional student. It provides a comprehensive overview of health research, in a concise and easy to read format using examples directly related to the health sciences. It helps students understand health research models, and how research goes on to inform and improve evidence-based clinical practice. For practitioners it provides guidance on published research in journals, providing an essential tool to keep their practice evidence based. Uses simple language and demystifies research jargon Covers both quantitative and qualitative research methodology, taking a very practical approach Provides an extensive glossary for better understanding of the language of research Fully updated online interactive self-assessment tests including MCQs, true or false questions and short answer questions.

Introduction to Scientific Programming with Python-Joakim Sundnes 2020 This open access book offers an initial introduction to programming for scientific and computational applications using the Python programming language. The presentation style is compact and example-based, making it suitable for students and researchers with little or no prior experience in programming. The book uses relevant examples from mathematics and the natural sciences to present programming as a practical toolbox that can quickly enable readers to write their own programs for data processing and mathematical modeling. These tools include file reading, plotting, simple text analysis, and using NumPy for numerical computations, which are fundamental building blocks of all programs in data science and computational science. At the same time, readers are introduced to the fundamental concepts of programming, including variables, functions, loops, classes, and object-oriented programming. Accordingly, the book provides a sound basis for further computer science and programming studies.

Scientific Research in Education-National Research Council 2002-03-28 Researchers, historians, and philosophers of science have debated the nature of scientific research in education for more than 100 years. Recent enthusiasm for "evidence-based" policy and practice in educationâ€"now codified in the federal law that authorizes the bulk of elementary and secondary education programsâ€"have brought a new sense of urgency to understanding the ways in which the basic tenets of science manifest in the study of teaching, learning, and schooling. Scientific Research in Education describes the similarities and differences between scientific inquiry in education and scientific inquiry in other fields and disciplines and provides a number of examples to illustrate these ideas. Its main argument is that all scientific endeavors share a common set of principles, and that each fieldâ€"including education researchâ€"develops a specialization that accounts for the particulars of what is being studied. The book also provides suggestions for how the federal government can best support high-quality scientific research in education.

An Introduction to Design Science-Paul Johannesson 2014-10-09 This book is an introductory text on design science, intended to support both graduate students and researchers in structuring, undertaking and presenting design science work. It builds on established design science methods as well as recent work on presenting design science studies and ethical principles for design science, and also offers novel instruments for visualizing the results, both in the form of process diagrams and through a canvas format. While the book does not presume any prior knowledge of design science, it provides readers with a thorough understanding of the subject and enables them to delve into much deeper detail, thanks to extensive sections on further reading. Design science in information systems and technology aims to create novel artifacts in the form of models, methods, and systems that support people in developing, using and maintaining IT solutions. This work focuses on design science as applied to information systems and technology, but it also includes examples from, and perspectives of, other fields of human practice. Chapter 1 provides an overview of design science and outlines its ties with empirical research. Chapter 2 discusses the various types and forms of knowledge that can be used and produced by design science research, while Chapter 3 presents a brief overview of common empirical research strategies and methods. Chapter 4 introduces a methodological framework for supporting researchers in doing design science research as well as in presenting their results. This framework includes five core activities, which are described in detail in Chapters 5 to 9. Chapter 10 discusses how to communicate design science results, while Chapter 11 compares the proposed methodological framework with methods for systems development and shows how they can be combined. Chapter 12 discusses how design science relates to research paradigms, in particular to positivism and interpretivism. Lastly, Chapter 13 discusses ethical issues and principles for design science research.

Science In Society-Massimiano Bucchi 2004-07-31 The world around us is continually being shaped by science, and by society’s relationship to it. In recent years sociologists have been increasingly preoccupied with the latter, and now in this fascinating book, Massimiano Bucchi provides a brief introduction to this topical issue. Bucchi provides clear and unassuming summaries of all the major theoretical positions within the sociology of science, illustrated with many fascinating examples. Theories covered include Thomas Kuhn's theory of scientific change, the sociology of scientific knowledge, actor-network theory, and the social construction of technology. The second half of the book looks at recent public controversies over the role of science in the modern world including: * the Sokal affair, otherwise known as the science wars * debates over public understanding of science, such as global warming and genetically modified food * the implications of the human genome project. This much needed introduction to a rapidly growing area brings theory alive and will be essential reading for all students of the sociology of science.

How to Write a Good Scientific Paper-CHRIS A. MACK 2018 Many scientists and engineers consider themselves poor writers or find the writing process difficult. The good news is that you do not have to be a talented writer to produce a good scientific paper, but you do have to be a careful writer. In particular, writing for a peer-reviewed scientific or engineering journal requires learning and executing a specific formula for presenting scientific work. This book is all about teaching the style and conventions of writing for a peer-reviewed scientific journal. From structure to style, titles to tables, abstracts to author lists, this book gives practical advice about the process of writing a paper and getting it published.

The Science of Stories-János László 2008-06-30 The Science of Stories explores the role narrative plays in human life. Supported by in-depth research, the book demonstrates how the ways in which people tell their stories can be indicative of how they construct their worlds and their own identities. Based on linguistic analysis and computer technology, Laszlo offers an innovative methodology which aims to uncover underlying psychological processes in narrative texts. The reader is presented with a theoretical framework along with a series of studies which explore the way a systematic linguistic analysis of narrative discourse can lead to a scientific study of identity construction, both individual and group. The book gives a critical overview of earlier narrative theories and summarizes previous scientific attempts to uncover relationships between language and personality. It also deals with social memory and group identity: various narrative forms of historical representations (history books, folk narratives, historical novels) are analyzed as to how they construct the past of a nation. The Science of Stories is the first book to build a bridge between scientific and hermeneutic studies of narratives. As such, it will be of great interest to a diverse spectrum of readers in social science and the liberal arts, including those in the fields of cognitive science, social psychology, linguistics, philosophy, literary studies and history.

Leading Your Research Team in Science-Ritsert C. Jansen 2018-12-06 A practical guide for early career scientists to help them start and lead their own research team effectively. This title is available as Open Access via Cambridge Core.

Evaluation for the 21st Century-Eleanor Chelimsky 1997-01-28 Evaluation for the 21st Century features thoughtfully written introductions to each of the main sections that provide a context and synthesis of the various evaluators' chapters. After reading this groundbreaking book, researchers and practitioners will be able to recognize these new developments in evaluation as they encounter them, place them in context, and incorporate them into their own evaluation professions and practices.

Introduction to Anticipation Studies-Roberto Poli 2017-08-28 This book presents the theory of anticipation, and establishes anticipation of the future as a legitimate topic of research. It examines anticipatory behavior, i.e. a behavior that ‘uses’ the future in its actual decisional process. The book shows that anticipation violates neither the ontological order of time nor causation. It explores the question of how different kinds of systems anticipate, and examines the risks and uses of such anticipatory practices. The book first summarizes the research on anticipation conducted within a range of different disciplines, and describes the connection between the anticipatory point of view and futures studies. Following that, its chapters on Wholes, Time and Emergence, make explicit the ontological framework within which anticipation finds its place. It then goes on to discuss Systems, Complexity, and the Modeling Relation, and provides the scientific background supporting anticipation. It restricts formal technicalities to one chapter, and presents those technicalities twice, in formal and plain words to advance understanding. The final chapter shows that all the threads presented in the previous chapters naturally converge toward what has come to be called “Discipline of Anticipation”

Basic Science Methods for Clinical Researchers-Morteza Jalali 2017-03-31 Basic Science Methods for Clinical Researchers addresses the specific challenges faced by clinicians without a conventional science background. The aim of the book is to introduce the reader to core experimental methods commonly used to answer questions in basic science research and to outline their relative strengths and limitations in generating conclusive data. This book will be a vital companion for clinicians undertaking laboratory-based science. It will support clinicians in the pursuit of their academic interests and in making an original contribution to their chosen field. In doing so, it will facilitate the development of tomorrow’s clinician scientists and future leaders in discovery science. Serves as a helpful guide for clinical researchers who lack a conventional science background Organized around research themes pertaining to key biological molecules, from genes, to proteins, cells, and model organisms Features protocols, techniques for troubleshooting common problems, and an explanation of the advantages and limitations of a technique in generating conclusive data Appendices provide resources for practical research methodology, including legal frameworks for using stem cells and animals in the laboratory, ethical considerations, and good laboratory practice (GLP)

Communication Science Theory and Research-Marina Krcmar 2016-05-20 This volume provides a graduate-level introduction to communication science, including theory and scholarship for masters and PhD students as well as practicing scholars. The work defines communication, reviews its history, and provides a broad look at how communication research is conducted. It also includes chapters reviewing the most frequently addressed topics in communication science. This book presents an overview of theory in general and of communication theory in particular, while offering a broad look at topics in communication that promote understanding of the key issues in communication science for students and scholars new to communication research. The book takes a predominantly "communication science" approach but also situates this approach in the broader field of communication, and addresses how communication science is related to and different from such approaches as critical and cultural studies and rhetoric. As an overview of communication science that will serve as a reference work for scholars as well as a text for the introduction to communication graduate studies course, this volume is an essential resource for understanding and conducting scholarship in the communication discipline.