

## Macrina Scientific Integrity

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<i>Macrina Scientific Integrity</i>	<i>2020-12-12</i>
<b>PEREZ CALEB</b>	
<b>Integrity in Scientific Research</b> John Wiley & Sons Academic surgeons play an essential role in advancing the field and improving the care of patients with surgical disease. As the Association for Academic Surgery (AAS) Fall Courses (www.aasurg.org) and international courses continue to evolve to address the rapidly expanding scope and complexity of academic surgery, there is a greater need for an accompanying textbook to supplement the material presented in the courses. <i>Success in Academic Surgery: Basic Science</i> is a unique and portable handbook that focuses on the basic and translational research. It includes new educational materials that are necessary to address not only the rapid evolution and rise of novel research methodologies in basic science and translational research, but also the changing environment for academic surgeons. <i>Success in Academic Surgery: Basic Science</i> is a valuable text for medical students, surgical residents, junior faculty and others considering a career in surgical research.	
<b>Biomedical Ethics</b> CRC Press 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.	
<b>Introduction to the Responsible Conduct of Research (rev. Ed. )</b> Oxford University Press The first serious, extended effort to use a human rights-based approach to address the scientific issues affecting society and the often-neglected human right to science.	
<b>Gene Drives on the Horizon</b> Baker Academic "Many people say that it is the intellect which makes a great scientist. They are wrong: it is character."-Albert Einstein <i>Integrity in Scientific Research</i> attempts to define and describe those elements that encourage individuals involved with scientific research to act with integrity. Recognizing the inconsistency of human behavior, it stresses the important role that research institutions play in providing an integrity-rich environment, citing the need for institutions to provide staff with training and education, policies and procedures, and tools and support systems. It identifies practices that characterize integrity in such areas as peer review and research on human subjects and weighs the strengths and limitations of self-evaluation efforts by these institutions. In addition, it details an approach to promoting integrity during the education of researchers, including how to develop an effective curriculum. Providing a framework for research and educational institutions, this important book will be essential for anyone concerned about ethics in the scientific community.	
<i>Success in Academic Surgery: Basic Science</i> National Academies Press The field of ethics in science aims to improve the way the audience perceives science, and this unique workbook discusses the areas of ethics and scientific misconduct. It provides assessments and exercises for learners to work through in groups or alone. Completion of the workbook but especially the assessment and tests will earn the learner a certificate for scientific misconduct training compiled by the author, and the certificate is available from the author's own website. This volume is a companion to the author's published volume, <i>Ethics in Science: Ethical Misconduct in Scientific Research</i> , Second Edition and will appeal to undergraduates, graduates and even high school students. Features: A unique training workbook in ethics and good conduct, easily accessible and user friendly Unlike books in this area which mostly cover the theoretical foundations of ethics in science, here the author provides a practical workbook and ancillaries Case studies and a PowerPoint presentation are provided and readers will receive a certificate of	

completion There is a wealth of instructor resources available from the homepage A knowledge of scientific misconduct is of utmost importance in an era of mass higher education

*At the Bench* Harvard University Press

This widely adopted textbook provides the essential content and skill-building tools for teaching the responsible conduct of scientific research. *Scientific Integrity* covers the breadth of concerns faced by scientists: protection of animal and human experimental subjects, scientific publication, intellectual property, conflict of interest, collaboration, record keeping, mentoring, and the social and ethical responsibilities of scientists.

**Doing Global Science** National Academies Press

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.

**The Ethics of Science** CRC Press

An essential introduction to the responsible conduct of science in today's interconnected world This concise introductory guide explains the values that should inform the responsible conduct of scientific research in today's global setting. Featuring accessible discussions and ample real-world scenarios, *Doing Global Science* covers proper conduct, fraud and bias, the researcher's responsibilities to society, communication with the public, and much more. The book places special emphasis on the international and highly networked environment in which modern research is done, presenting science as an enterprise that is being transformed by globalization, interdisciplinary research projects, team science, and information technologies. Accessibly written by an InterAcademy Partnership committee comprised of leading scientists from around the world, *Doing Global Science* is required reading for students, practitioners, and anyone concerned about the responsible conduct of science today. Provides practical guidance and instructions for doing scientific research in today's global setting Covers everything from responsible conduct to communication with the public Features numerous real-world scenarios drawn from an array of disciplines and national contexts Focuses on issues commonly encountered in international collaborations Written by a panel of leading experts from around the world An essential guide for practicing scientists and anyone concerned about fostering research integrity

*On Being a Scientist* Routledge

This monograph contributes to the scientific misconduct debate from an oblique perspective, by analysing seven novels devoted to this issue, namely: *Arrowsmith* by Sinclair Lewis (1925), *The affair by C.P. Snow* (1960), *Cantor's Dilemma* by Carl Djerassi (1989), *Perlmann's Silence* by Pascal Mercier (1995), *Intuition* by Allegra Goodman (2006), *Solar* by Ian McEwan (2010) and *Derailment* by Diederik Stapel (2012). Scientific misconduct, i.e. fabrication, falsification, plagiarism, but also other questionable research practices, have become a focus of concern for academic communities

worldwide, but also for managers, funders and publishers of research. The aforementioned novels offer intriguing windows into integrity challenges emerging in contemporary research practices. They are analysed from a continental philosophical perspective, providing a stage where various voices, positions and modes of discourse are mutually exposed to one another, so that they critically address and question one another. They force us to start from the admission that we do not really know what misconduct is. Subsequently, by providing case histories of misconduct, they address integrity challenges not only in terms of individual deviance but also in terms of systemic crisis, due to current transformations in the ways in which knowledge is produced. Rather than functioning as moral vignettes, the author argues that misconduct novels challenge us to reconsider some of the basic conceptual building blocks of integrity discourse. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.

*Scientific Integrity* John Wiley & Sons

The effort to understand and combat infectious diseases has, during the centuries, produced many key advances in science and medicine-including the development of vaccines, drugs, and other treatments. A subset of this research is conducted with agents that, like anthrax, not only pose a severe threat to the health of humans, plants, and animals but can also be used for ill-intended purposes. Such agents have been listed by the government as biological select agents and toxins. The 2001 anthrax letter attacks prompted the creation of new regulations aimed at increasing security for research with dangerous pathogens. The outcome of the anthrax letter investigation has raised concern about whether these measures are adequate. *Responsible Research with Biological Select Agents and Toxins* evaluates both the physical security of select agent laboratories and personnel reliability measures designed to ensure the trustworthiness of those with access to biological select agents and toxins. The book offers a set of guiding principles and recommended changes to minimize security risk and facilitate the productivity of research. The book recommends fostering a culture of trust and responsibility in the laboratory, engaging the community in oversight of the Select Agent Program, and enhancing the operation of the Select Agent Program.

**Responsible Research with Biological Select Agents and Toxins** National Academies Press  
Recent scandals and controversies, such as data fabrication in federally funded science, data manipulation and distortion in private industry, and human embryonic stem cell research, illustrate the importance of ethics in science. *Responsible Conduct of Research*, now in a completely updated second edition, provides an introduction to the social, ethical, and legal issues facing scientists today.

*The SAGE Handbook of Qualitative Research Ethics* Greenhaven Publishing

*Scientific Integrity: Text and Cases in Responsible Conduct of Research*, 3rd Edition, presents an important revision of a best-selling text in the expanding field of responsible conduct of research training. Presents the core topics for graduate and postdoctoral trainees and professional researchers on the principles of scientific integrity Contains highly relevant interactive case studies, 30% of which are new to third edition, written by practicing scientists on the front lines of ethical issues Covers essential topics related to the conduct of scientific investigation, such as guidelines, policies, standards, and codes Offers a companion Web site, maintained by the author, containing a rich collection of Internet resources Includes discussion questions to promote critical thought Provides updates to most appendix material

*Tales of Research Misconduct* Springer

Research on gene drive systems is rapidly advancing. Many proposed applications of gene drive research aim to solve environmental and public health challenges, including the reduction of

poverty and the burden of vector-borne diseases, such as malaria and dengue, which disproportionately impact low and middle income countries. However, due to their intrinsic qualities of rapid spread and irreversibility, gene drive systems raise many questions with respect to their safety relative to public and environmental health. Because gene drive systems are designed to alter the environments we share in ways that will be hard to anticipate and impossible to completely roll back, questions about the ethics surrounding use of this research are complex and will require very careful exploration. Gene Drives on the Horizon outlines the state of knowledge relative to the science, ethics, public engagement, and risk assessment as they pertain to research directions of gene drive systems and governance of the research process. This report offers principles for responsible practices of gene drive research and related applications for use by investigators, their institutions, the research funders, and regulators.

**Scientific Papers and Presentations** Oxford University Press

What is the purpose of studying history? How do we reflect on contemporary life from a historical perspective and can such reflection help us better understand ourselves, the world around us, and the God we worship and serve? In this introductory textbook, accomplished historian John Fea shows why Christians should study history, how faith is brought to bear on our understanding of the past, and how studying the past can help us more effectively love God and others. Deep historical thinking can relieve us of our narcissism; cultivate humility, hospitality, and love; and transform our lives more fully into the image of Jesus Christ.

**Scientific Misconduct Training Workbook** National Academies Press

Basic Principles of Drug Discovery and Development presents the multifaceted process of identifying a new drug in the modern era, which requires a multidisciplinary team approach with input from medicinal chemists, biologists, pharmacologists, drug metabolism experts, toxicologists, clinicians, and a host of experts from numerous additional fields. Enabling technologies such as high throughput screening, structure-based drug design, molecular modeling, pharmaceutical profiling, and translational medicine are critical to the successful development of marketable therapeutics. Given the wide range of disciplines and techniques that are required for cutting edge drug discovery and development, a scientist must master their own fields as well as have a fundamental understanding of their collaborator's fields. This book bridges the knowledge gaps that invariably lead to communication issues in a new scientist's early career, providing a fundamental understanding of the various techniques and disciplines required for the multifaceted endeavor of drug research and development. It provides students, new industrial scientists, and academics with a basic understanding of the drug discovery and development process. The fully updated text provides an excellent overview of the process and includes chapters on important

drug targets by class, in vitro screening methods, medicinal chemistry strategies in drug design, principles of in vivo pharmacokinetics and pharmacodynamics, animal models of disease states, clinical trial basics, and selected business aspects of the drug discovery process. Provides a clear explanation of how the pharmaceutical industry works, as well as the complete drug discovery and development process, from obtaining a lead, to testing the bioactivity, to producing the drug, and protecting the intellectual property Includes a new chapter on the discovery and development of biologics (antibodies proteins, antibody/receptor complexes, antibody drug conjugates), a growing and important area of the pharmaceutical industry landscape Features a new section on formulations, including a discussion of IV formulations suitable for human clinical trials, as well as the application of nanotechnology and the use of transdermal patch technology for drug delivery Updated chapter with new case studies includes additional modern examples of drug discovery through high through-put screening, fragment-based drug design, and computational chemistry *Scientific Integrity* Academic Press

This handbook provides both an overview of state-of-the-art scholarship in philosophy of science, as well as a guide to new directions in the discipline. Section I contains broad overviews of the main lines of research and the state of established knowledge in six principal areas of the discipline, including computational, physical, biological, psychological and social sciences, as well as general philosophy of science. Section II covers what are considered to be the traditional topics in the philosophy of science, such as causation, probability, models, ethics and values, and explanation. Section III identifies new areas of investigation that show promise of becoming important areas of research, including the philosophy of astronomy and astrophysics, data, complexity theory, neuroscience, simulations, post-Kuhnian philosophy, post-empiricist epistemology, and emergence. Most chapters are accessible to scientifically educated non-philosophers as well as to professional philosophers, and the contributors - all leading researchers in their field -- bring diverse perspectives from the North American, European, and Australasian research communities. This volume is an essential resource for scholars and students.

**Scientific Integrity and Ethics in the Geosciences** Springer Science & Business Media

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.

**The Ethical Chemist** Courier Corporation

For most of the history of scientific endeavour, science has been recorded on paper. In this digital era, however, there is increasing pressure to abandon paper in favour of digital tools. Despite the benefits, there are barriers to the adoption of such tools, not least their usability. As the relentless development of technology changes the way we work, we need to ensure that the design of technology not only overcomes these barriers, but facilitates us as scientists and supports better practice within science. This book examines the importance of record-keeping in science, current record-keeping practices, and the role of technology for enabling the effective capture, reuse, sharing, and preservation of scientific data. Covering the essential areas of electronic laboratory notebooks (ELNs) and digital tools for recording scientific data, including an overview of the current data management technology available and the benefits and pitfalls of using these technologies, this book is a useful tool for those interested in implementing digital data solutions within their research groups or departments. This book also provides insight into important factors to consider in the design of digital tools such as ELNs for those interested in producing their own tools. Finally, it looks at the role of current technology and then considers how that technology might develop in the future to better support scientists in their work, and in capturing and sharing the scientific record.

**The Ethics of Scientific Research** Royal Society of Chemistry

Science is built on trust. The assumption is that scientists will conduct their work with integrity, honesty, and a strict adherence to scientific protocols. Written by geoscientists for geoscientists, *Scientific Integrity and Ethics in the Geosciences* acquaints readers with the fundamental principles of scientific ethics and shows how they apply to everyday work in the classroom, laboratory, and field. Resources are provided throughout to help discuss and implement principles of scientific integrity and ethics. Volume highlights include: Examples of international and national codes and policies Exploration of the role of professional societies in scientific integrity and ethics References to scientific integrity and ethics in publications and research data Discussion of science integrity, ethics, and geoethics in education Extensive coverage of data applications *Scientific Integrity and Ethics in the Geosciences* is a valuable resource for students, faculty, instructors, and scientists in the geosciences and beyond. It is also useful for geoscientists working in industry, government, and policymaking. Read an interview with the editors to find out more:

<https://eos.org/editors-vox/ethics-crucial-for-the-future-of-the-geosciences>

**A Survey of Attitudes and Actions on Dual Use Research in the Life Sciences** SAGE

Issues in biomedical ethics are discussed from a variety of viewpoints.