



Ethics in Science

Ethical Misconduct in Scientific Research

John D'Angelo



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Ethics In Science Ethical Misconduct In Scientific Research

Mark Davies



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Ethics in Science John D'Angelo, 2018-12-07 Providing the tools necessary for a robust debate this fully revised and updated second edition of *Ethics in Science Ethical Misconduct in Scientific Research* explains various forms of scientific misconduct. The first part describes a variety of ethical violations, why they occur, how they are handled, and what can be done to prevent them, along with a discussion of the peer review process. The second presents real life case studies that review the known facts, allowing readers to decide for themselves whether an ethical violation has occurred and if so, what should be done. With 4 new chapters and an updated selection of case studies, this text provides resources for guided discussion of topical controversies and how to prevent scientific misconduct. **Key Features:** Fully revised and updated text which explains the various forms of scientific misconduct. New chapters include: Ethics of the Pharmaceutical Industry, The Responsibility of Science to the Environment, and Summary of Ethics Guidelines of STEM Professional Societies. Provides the necessary tools to lead students in the discussion of topical controversies. Includes descriptions of real ethical case studies, a number of which are new for the Second Edition. This book is applicable to any science and any level of education. **Ethics**

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homepage A knowledge of scientific misconduct is of utmost importance in an era of mass higher education [On Being a Scientist](#) National Academy of Engineering, National Academy of Sciences, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1995-02-10 Since the first edition of *On Being a Scientist* was published in 1989 more than 200 000 copies have been distributed to graduate and undergraduate science students Now this well received booklet has been updated to incorporate the important developments in science ethics of the past 6 years and includes updated examples and material from the landmark volume *Responsible Science* National Academy Press 1992 The revision reflects feedback from readers of the original version In response to graduate students requests it offers several case studies in science ethics that pose provocative and realistic scenarios of ethical dilemmas and issues *On Being a Scientist* presents penetrating discussions of the social and historical context of science the allocation of credit for discovery the scientist's role in society the issues revolving around publication and many other aspects of scientific work The booklet explores the inevitable conflicts that arise when the black and white areas of science meet the gray areas of human values and biases Written in a conversational style this booklet will be of great interest to students entering scientific research their instructors and mentors and anyone interested in the role of scientific discovery in society [Fostering Integrity in Research](#) National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Committee on Science, Engineering, Medicine, and Public Policy, Committee on Responsible Science, 2017-12-13 The integrity of knowledge that emerges from research is based on individual and collective adherence to core values of objectivity honesty openness fairness accountability and stewardship Integrity in science means that the organizations in which research is conducted encourage those involved to exemplify these values in every step of the research process Understanding the dynamics that support or distort practices that uphold the integrity of research by all participants ensures that the research enterprise advances knowledge The 1992 report *Responsible Science Ensuring the Integrity of the Research Process* evaluated issues related to scientific responsibility and the conduct of research It provided a valuable service in describing and analyzing a very complicated set of issues and has served as a crucial basis for thinking about research integrity for more than two decades However as experience has accumulated with various forms of research misconduct detrimental research practices and other forms of misconduct as subsequent empirical research has revealed more about the nature of scientific misconduct and because technological and social changes have altered the environment in which science is conducted it is clear that the framework established more than two decades ago needs to be updated *Responsible Science* served as a valuable benchmark to set the context for this most recent analysis and to help guide the committee's thought process *Fostering Integrity in Research* identifies best practices in research and recommends practical options for discouraging and addressing research misconduct and detrimental research practices [Responsible Science](#) Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Panel on Scientific Responsibility and the

Conduct of Research,1993-02-01 Volume II of Responsible Science includes background papers and selected institutional reports policies and procedures that were used to develop Volume I Topics discussed include traditions of mentorship in science data handling practices in the biological sciences academic policies and standards governing the conduct of research practices congressional interest in issues of misconduct and integrity in science the regulatory experience of human subjects research and the roles of scientific and engineering societies in fostering research integrity The panel also considers numerous institutional policy statements adopted by research universities and professional societies that address different aspects of misconduct or integrity in science These statements have been selected to convey the diverse approaches for addressing such matters within research institutions

On Being a Scientist Institute of Medicine,National Academy of Engineering,National Academy of Sciences,Committee on Science, Engineering, and Public Policy,2009-04-24 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

Integrity in Scientific Research National Research Council,Institute of Medicine,Division on Earth and Life Studies,Board on Health Sciences Policy,Committee on Assessing Integrity in Research Environments,2002-11-02 Many people say that it is the intellect which makes a great scientist They are wrong it is character Albert Einstein Integrity in Scientific Research 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

Ethics in

Science and Engineering James G. Speight, Russell Foote, 2011-04-26 The only treatment of ethics from a scientific and engineering perspective The pursuit of science and engineering requires freedom of thought and in the academic sense unrestricted communication It is through the professionalism of the members of these disciplines that world knowledge and technology advances Yet there are continuous reports of unethical behavior in the forms of data manipulation cheating and plagiarism at the highest levels The motivations for this behavior are varied such as the need to advance one's career or to obtain research funding This book gives an account of scientific and engineering disciplines and examines the potential for unethical behavior by professionals Documented examples are presented to show where the matter could have been halted before it became an unethical issue The authors also look to the future to see what is in store for professionals in science and engineering and how the potential for unethical behavior can be negated *Responsible Conduct of Research* Adil E. Shamoo, David B. Resnik, 2009-02-12 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 **Success in Academic Surgery: Basic Science** Melina R. Kibbe, Scott A. LeMaire, 2013-09-02 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 *Success in Academic Surgery Basic Science* 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 *Success in Academic Surgery Basic Science* is a valuable text for medical students surgical residents junior faculty and others considering a career in surgical research **Scientific Integrity** Francis L. Macrina, 2014-07-22 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 Learning activities and resources designed to elucidate the principles of *Scientific Integrity* include Dozens of highly relevant interactive case studies for discussion in class or online Numerous print and online resources covering the newest research guidelines regulations mandates and policies Discussion questions role playing exercises and survey tools to promote critical thought Documents including published rules of conduct sample experimentation protocols and patent applications The new edition of *Scientific Integrity* responds to significant recent changes new mandates policies laws and

other developments in the field of responsible conduct of research Dr Macrina plants the seeds of awareness of existing changing and emerging standards in scientific conduct and provides the tools to promote critical thinking in the use of that information Scientific Integrity is the original turnkey text to guide the next generations of scientists as well as practicing researchers in the essential skills and approaches for the responsible conduct of science *University Responsibility for the Adjudication of Research Misconduct* Stefan Franzen,2021-05-12 This book offers a scientific whistleblower's perspective on current implementation of federal research misconduct regulations It provides a narrative of general interest that relates current cases of research ethics to philosophical historical and sociological accounts of fraud in scientific research The evidence presented suggests that the problems of falsification and fabrication remain as great as ever but hidden because the current system puts universities in charge of investigations and permits them to use confidentiality regulations to hide the outcomes of investigations The book documents the significant conflict of interest that arises because federal regulation gives universities the responsibility to conduct investigations of their own faculty with severely limited oversight The book is intended for young research scientists or anyone who wishes to understand the challenges faced by scientists in the workplace today The central thread in the book is an exclusive account of an experienced research scientist who was the first to expose the facts that led to the longest running research misconduct investigation in the history of the National Science Foundation **Law and the Regulation of Scientific Research** Mark Davies,2022-08-12 Scientific research is fundamental to addressing issues of great importance to the development of human knowledge Scientific research fuels advances in medicine technology and other areas important to society and has to be credible trustworthy and able to command confidence in the face of inevitable uncertainties Scientific researchers must be trusted and respected when they engage with knowledge acquisition and dissemination and as ethical guardians in their education and training roles of future generations of researchers The core values of scientific research transcend disciplinary and national boundaries and approaches to the organisation and oversight of research systems can impact significantly upon the ethics and conduct of researchers This book draws upon legal expertise to critically analyse issues of regulation conduct and ethics at the important interface between scientific research and regulatory and legal environments In so doing it aims to contribute important additional perspectives to the existing literature Case studies are engaged with to assist with the critical analysis of the current position and the consideration of future possibilities The book will be of interest to academics in the fields of science law and policy science and law students and scientific researchers at more advanced stages of their careers Research professionals in government and the private sector and legal practitioners with interests in the regulation of research should also find the work of interest **Surgical Research** Wiley W. Souba,Douglas W. Wilmore,2001-02-23 With the recent changes in the health care industry surgeons face increasing pressure to devote their time to their clinical activities thus limiting their research efforts It is essential that young and creative individuals are encouraged to perform research and are

given incentives to participate in research under the mentorship of more experienced research investigators

Surgical Research is the first book to include all the information necessary for the surgical scientist to perform a research experiment. The editors have assembled outstanding expert investigators in multiple surgical fields and asked them to describe how they achieve their research accomplishments. In **Surgical Research** these experts in the field have outlined everything involved in preparing and conducting a research project. Some of the topics covered in the book include how to state a research question, how to review the available information, how to write research protocol, how to obtain grant money for the experiment, how to analyze the data and how to present the findings. Also discussed are the ethics of animal and human experimentation along with the history and philosophy of surgical research. To continue to advance technologies and surgical methods, research must continually be performed. Potentially great discoveries are being missed because researchers do not know where to start or how to conduct research and therefore do not even try. This book provides prospective researchers with all the basic steps needed to perform a research experiment in the surgical field. No student, resident, or fellow should start a research project without this book, and no senior surgical scientist should be without it, occupying a prominent position in the library.

Key Features: The first complete compendium detailing the process and procedures to perform surgical research. Provides details on and compares various methodologies. A must-have resource for the surgical resident, fellow, or scientist. Includes a listing of resources and web sites to help the researcher even further.

The Ethics of Scientific Research Judy E. Stern, Deni Elliott, 1997

Malaysian Journal of Economic Studies, 2000

Higher Education: Handbook of Theory and Research Michael B. Paulsen, 2013-02-12. Published annually since 1985, the Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities. Each chapter provides a comprehensive review of research findings on a selected topic, critiques the research literature in terms of its conceptual and methodological rigor, and sets forth an agenda for future research intended to advance knowledge on the chosen topic. The Handbook focuses on a comprehensive set of central areas of study in higher education that encompasses the salient dimensions of scholarly and policy inquiries undertaken in the international higher education community. Each annual volume contains chapters on such diverse topics as research on college students and faculty, organization and administration, curriculum and instruction, policy, diversity issues, economics and finance, history and philosophy, community colleges, advances in research methodology, and more. The series is fortunate to have attracted annual contributions from distinguished scholars throughout the world.

Ethics and Science Adam Brigg, Carl Mitcham, 2012-10-25. This book explores ethical issues at the interfaces of science, policy, religion, and technology, cultivating the skills for critical analysis.

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