

-INTEGRITY-



# Scientific Integrity

**N Colangelo**



## Scientific Integrity:

**Scientific Integrity and Ethics in the Geosciences** Linda C. Gundersen, 2017-10-17 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>

**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.

**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 [Scientific Integrity, 3rd Edition](#) ,

**Scientific Integrity** Francis L. Macrina,2005 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

**Scientific Integrity** Francis L. Macrina,2000 All of the original chapters have been revised and updated and two new chapters have been added Case studies parallel chapter content and illustrate the issues and dilemmas encountered by scientists conducting research Designed to foster class discussion case resolution requires students to use critical thinking as they integrate personal and professional ethical standards and apply them to solve the cases [Scientific Integrity and Research Ethics](#) David Koepsell,2016-12-22 This book is an easy to read yet comprehensive introduction to practical issues in research ethics and scientific integrity It addresses questions about what constitutes appropriate academic and scientific behaviors from the point of view of what Robert Merton called the ethos of science In other words without getting into tricky questions about the nature of the good or right as philosophers often do Koepsell s concise book provides an approach to behaving according to the norms of science and academia without delving into the morass of philosophical ethics The central thesis is that since we know certain behaviors are necessary for science and its institutions to work properly rather than pathologically we can extend those principles to guide good behaviors as scientists and academics The Spanish version of this book was commissioned by the Mexican National Science Foundation CONACyT and is being distributed to and used by Mexican scientists in a unique national plan to improve scientific integrity throughout all of Mexico Available now in English the examples and strategies employed can be used throughout the English speaking research world for discussing issues in research ethics training for scientists and researchers across disciplines and those who are generally interested in ethics in academia [Scientific Integrity and Ethics in the Geosciences](#) Linda C. Gundersen,2017-11-20 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> *Scientific Integrity* Francis L. Macrina, 2014-08-14 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 **Guidelines for Scientific Integrity** Midwest Nursing Research Society, 1996 **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 **Research Methods Pedagogy: Engaging Psychology Students in Research Methods and Statistics** Lynne Roberts, 2016-11-09 Research methods and statistics are central to the development of professional competence and evidence based psychological practice

Noun masculine research on the development of psychological literacy Despite this many psychology students express little interest in and in some cases of active dislike of learning research methods and statistics This ebook brings together current research innovative evidence based practice and critical discourse

**Research Design in Clinical Psychology** Alan E. Kazdin,2023-09-07 Fully revised and updated this text offers a comprehensive guide to research methods and research design in clinical psychology

*Fostering Quality Science at EPA* United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Energy and Environment,2011

*Promoting Research Integrity in a Global Environment* Tony Mayer,Nicholas Steneck,2012 The World Conferences on Research Integrity provide a forum for an international group of researchers research administrators from funding agencies and similar bodies The second such conference held in Singapore in July 2010 This volume brings together a selection of presentations and key guidelines and statements emerging from the Conference

**Handbook of Research Ethics and Scientific Integrity** Ron Iphofen,2020-04-03 This handbook is a one stop shop for current information issues and challenges in the fields of research ethics and scientific integrity It provides a comprehensive coverage of research and integrity issues both within researchers home discipline and in relation to similar concerns in other disciplines The handbook covers common elements shared by disciplines and research professions such as consent privacy data management fraud and plagiarism The handbook also includes contributions and perspectives from academics from various disciplines treating issues specific to their fields Readers are able to quickly source the most comprehensive and up to date information protagonists issues and challenges in the field Experienced researchers keen to assess their own perspectives as well as novice researchers aiming to establish the field will equally find the handbook of interest and practical benefit It saves them a great deal of time in sourcing the disparate available material in these fields and it is the first port of call for a wide range of researchers research advisors funding agencies and research reviewers The most important feature is the handbook s ability to provide practical advice and guidance to researchers in a wide range of disciplines and professions to help them think through their approach to difficult questions related to the principles values and standards they need to bring to their research practice

**Integrity and Misconduct in Academic Research in the Netherlands** ,2015 Today s increased attention to integrity can be regarded as part of a more comprehensive professional culture Yet in a desensitised and detached social climate integrity is no longer self evident as a core value of professional conduct Examples of this shift are overabundant Integrity and Misconduct in Academic Research in The Netherlands Attention to scientific integrity fits in completely with this development Yet what is scientific integrity actually Is it important to pay so much attention to it Which issues does it involve Is anything known about the nature and scope of the problem In this book Kees Schuyt explores the concept of integrity describes cases of fraud and other types of dishonest behaviour in the practices of scientific research and formulates an explicit standard for circumstances where scientific integrity has been contravened He delves into questions concerning plagiarism and provides

a nuanced argument regarding the notion that self plagiarism re using one s own texts must be seen as misconduct In addition he answers the question as to how a scientific mind set which integrity is part of can best be transmitted to students and new generations of researchers Medical Education in the United States and Canada Abraham Flexner,1910 A landmark work which precipitated major reforms in medical education It recommended closing commercial schools and reducing the overall number of medical schools from 155 to 31 with the aim of raising standards Includes frank evaluative sketches of each school based on site visits by the author *Bulletin* Carnegie Foundation for the Advancement of Teaching,1907 **Research Report, Publication List** Massachusetts Institute of Technology. Center for International Studies,1966

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