



Explaining Scientific Consensus

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Explaining Scientific Consensus:

Explaining Scientific Consensus Kyung-Man Kim, 1989 Explaining Scientific Consensus Kyung-Man Kim, 1994 The recognition of science as a social process in which dissent and negotiation take place is not a new concept The role of consensus and the extent to which personal relationships affect its formation however are rarely discussed in the literature Examining these phenomena Kyung Man Kim argues that sociologists and historians present a deficient account of how science produces reliable knowledge because they have primarily focused on the drama of conflict and disagreements rather than on the process of reaching consensus Through a careful examination of the community of the evolutionary biologists and geneticists at the turn of the 20th century Kim reveals the interplay among scientists that generated acceptance of Mendelian genetics His analysis reveals the inherent weakness in contemporary accounts and lays the groundwork for a more democratic sociological theory of consensus formation Based on a large survey of published articles as well as unpublished letters Kim describes in vivid detail the history of the Mendelian debates This history serves to illustrate his main theme as he offers a detailed critique of Merton s structural functional account of science and discusses the three dominant research programs in the contemporary sociology of science including Bloor and Barnes s strong programme Collins s empirical program of relativism and Latour s actor network theory Throughout the role of mutual persuasion and criticism in reaching consensus among scientists of differing orientations is clearly illustrated Developing a unique approach to the formation of scientific consensus Kim focuses on the so called middle level scientists and their essential role in criticizing and controlling the more single minded and prominent elite scientists Kim contends that it is through these scientists who are often more accessible in university settings that new discoveries and ideas will be generally accepted in the scientific community displayed in textbooks and eventually accepted into the core knowledge Including a foreword by Donald Campbell and commentaries by eminent historians of genetics Nils Roll Hansen and Robert Olby this important new book will inform sociologists and historians of science as well as philosophers interested in recent developments of sociology of scientific knowledge An ideal teaching text it will be highly useful in courses dealing with genetics sociology or philosophy of science

Understanding the Tacit Stephen P. Turner, 2014-01-21 This book outlines a new account of the tacit meaning tacit knowledge presuppositions practices traditions and so forth It includes essays on topics such as underdetermination and mutual understanding and critical discussions of the major alternative approaches to the tacit including Bourdieu s habitus and various practice theories Oakeshott s account of tradition Quentin Skinner s theory of historical meaning Harry Collins s idea of collective tacit knowledge as well as discussions of relevant cognitive science concepts such as non conceptual content connectionism and mirror neurons The new account of tacit knowledge focuses on the fact that in making the tacit explicit a person is not as many past accounts have supposed reading off the content of some sort of shared and fixed tacit scheme of presuppositions but rather responding to the needs of the Other for understanding

How Scientists Explain Disease Paul Thagard, 2018-06-05 How do scientists develop new explanations of disease How do those explanations become accepted as true And how does medical diagnosis change when physicians are confronted with new scientific evidence These are some of the questions that Paul Thagard pursues in this pathbreaking book that develops a new integrative approach to the study of science Ranging through the history of medicine from the Hippocratic theory of humors to modern explanations of Mad Cow Disease and chronic fatigue syndrome Thagard analyzes the development and acceptance of scientific ideas At the heart of the book is a case study of the recent dramatic shift in medical understanding of peptic ulcers most of which are now believed to be caused by infection by the bacterium *Helicobacter pylori* When this explanation was first proposed in 1983 it was greeted with intense skepticism by most medical experts but it became widely accepted over the next decade Thagard discusses the psychological processes of discovery and acceptance the physical processes involving instruments and experiments and the social processes of collaboration communication and consensus that brought about this transformation in medical knowledge *How Scientists Explain Disease* challenges both traditional philosophy of science which has viewed science as largely a matter of logic and contemporary science studies that view science as largely a matter of power Drawing on theories of distributed computing and artificial intelligence Paul Thagard develops new models that make sense of scientific change as a complex system of cognitive social and physical interactions This is a book that will appeal to all readers with an interest in the development of science and medicine It combines an engaging style significant research and a powerfully original argument

Teaching Scientific Inquiry, 2008-01-01 What are scientific inquiry practices like today How should schools approach inquiry in science education *Teaching Science Inquiry* presents the scholarly papers and practical conversations that emerged from the exchanges at a two day conference of distinctive North American science studies and learning science scholars The conference goal forge consensus views about images of inquiry that could inform teaching science through inquiry The conference outcomes recommendations for Enhanced Scientific Method Extended Immersion Units of Instruction and Teacher Professional Development Models The edited volume will appeal to individuals interested in science learning as well as the design of learning environments Scholars policy makers teacher educators and teachers will find this volume s recommendations provocative and insightful Twentieth century scientific advances with new tools technologies and theories have changed what it means to do science to engage in scientific inquiry and to describe science as a way of knowing Advances in science studies disciplines are updating views about the nature of scientific inquiry Advances in the cognitive and learning sciences are altering understandings about knowledge acquisition meaning making and conditions for school learning The conference papers commentaries and panel reflections advance novel views about both children s learning and the nature of science

Science vs. Pseudoscience Critical Thinker Press, 2025-10-28 Discover the Power of Clear Thinking in an Age Clouded by Misinformation Step into a compelling journey that dissects the tangled web of fact and fiction shaping our world today This

book offers more than just a guide it s a beacon for anyone eager to navigate the often confusing realm where science meets pseudoscience By peeling back layers of myth and bias it reveals how to discern truth with confidence Explore the foundations of science as a rigorous method of inquiry and understand why it matters more than ever You ll encounter the psychological forces that make pseudoscientific beliefs so seductive and learn practical strategies to challenge these misconceptions without alienating others From debunking popular health myths to unveiling the subtle ways ideology influences what we accept as true the chapters are packed with insights that sharpen your critical thinking skills This book doesn t just inform it transforms It equips you with tools to evaluate evidence thoughtfully resist emotional manipulation and engage in meaningful dialogue that bridges divides By fostering scientific literacy it empowers you to protect yourself and your community from the pitfalls of misinformation that impact everyday decisions from health to technology and ethics Whether you re a skeptic a student or simply curious the lessons here inspire a lifelong commitment to rationality and open mindedness Join a growing movement toward clearer thinking and discover how embracing evidence based reasoning can enrich your life and shape a more informed society

Philosophical Topics ,1995 Vols for 1981 include the proceedings of the Southwestern Philosophical Society Understanding Motivation and Emotion Johnmarshall Reeve,2018-02-15 The past ten years have seen an explosion of useful research surrounding human motivation and emotion new insights allow researchers to answer the perennial questions including What do people want and Why do they want what they want By delving into the roots of motivation the emotional processes at work and the impacts on learning performance and well being this book provides a toolbox of practical interventions and approaches for use in a wide variety of settings In the midst of the field s golden age there has never been a better time to merge new understanding and practical application to improve people s lives Useful in schools the workplace clinical settings health care sports industry business and even interpersonal relationships these concepts are profoundly powerful incorporated into the state of the art intervention programs detailed here they can enhance people s motivation emotion and outlook while answering the core questions of any human interaction

Philosophica ,1997 **Global Environmental Politics** Jean-Frédéric Morin,Amandine Orsini,Sikina Jinnah,2020 Global Environmental Politics provides a fully up to date and comprehensive introduction to the most important issues dominating this fast moving field Going beyond the issue of climate change the textbook also introduces students to the pressing issues of desertification trade in hazardous waste biodiversity protection whaling acid rain ozone depletion water consumption and over fishing Importantly the authors pay particular attention to the interactions between environmental politics and other governance issues such as gender trade development health agriculture and security

Explaining the Qur’an Masudul Alam Choudhury,2003 **Understanding Scientific Prose** Jack Selzer,1993 Studies one scientific essay The Spandrels of San Marco and the Panglossian Paradigm A Critique of the Adaptationist Programme by evolutionary theorists Stephen Jay Gould and Richard C Lewontin as an example to demonstrate and test new analytical approaches to scientific rhetoric □□

□□□ ,2009 **Nature and System** ,1983 *The Tocqueville Review* Tocqueville Society,1996 **The Inadequacy of the Contractual Analogy in the Law of Treaties** Evangelos Raftopoulos,1990 New Technical Books New York Public Library,1994 **Teachers' Scientific Knowledge, Teaching Practice, and Students' Learning Activities** Shinho Jang,2004 **Zygon** ,2006 Semiotica ,1996

The Top Books of the Year Explaining Scientific Consensus The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Explaining Scientific Consensus : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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