

The Second Creation Dolly And The Age Of Biological Control

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Good Science Charis Thompson 2013-12-20 An examination of a decade and a half of political controversy, ethical debate, and scientific

progress in stem cell research. After a decade and a half, human pluripotent stem cell research has been normalized. There may be no consensus on the

status of the embryo—only a tacit agreement to disagree—but the debate now takes place in a context in which human stem cell research and related technologies already exist. In this book, Charis Thompson investigates the evolution of the controversy over human pluripotent stem cell research in the United States and proposes a new ethical approach for “good science.” Thompson traces political, ethical, and scientific developments that came together in what she characterizes as a “procurial” framing of innovation, based on concern with procurement of pluripotent cells and cell lines, a pro-cures mandate, and a proliferation of bio-curatorial practices. Thompson describes what she calls the “ethical choreography” that

allowed research to go on as the controversy continued. The intense ethical attention led to some important discoveries as scientists attempted to “invent around” ethical roadblocks. Some ethical concerns were highly legible; but others were hard to raise in the dominant procurial framing that allowed government funding for the practice of stem cell research to proceed despite controversy. Thompson broadens the debate to include such related topics as animal and human research subjecthood and altruism. Looking at fifteen years of stem cell debate and discoveries, Thompson argues that good science and good ethics are mutually reinforcing, rather than antithetical, in contemporary biomedicine.

Cloning: A Reference Handbook David E. Newton
2015-08-11 This book provides a detailed introduction to the cloning of both plants and animals and discusses the important social, ethical, political, technical, and other issues related to the practice. • Offers an informed perspective on cloning and its potential applications in everyday life and elsewhere • Includes profiles of key individuals and organizations related to the field of cloning, a Perspectives chapter, a chronology of important events in the history of cloning, and a glossary of key terms that strengthen the reader's understanding of the topic • Supplies the necessary historical background and context for readers to understand why cloning of both plants and

animals is of great importance—and why cloning technology is even more critical when it involves human beings
A History of Organ Transplantation David Hamilton 2012 "The first book of its kind, *A History of Organ Transplantation* examines the evolution of surgical tissue replacement from classical times to the medieval period to the present day. This volume will be useful to undergraduates, graduate students, scholars, surgeons, and the general public. Both Western and non-Western experiences as well as folk practices are included."--Project Muse.

Embryogenesis Explained Natalie K Gordon *retired*
2016-09-15 The greatest mystery of life is how a single fertilized egg develops into a fully functioning, sometimes

conscious multicellular organism. Embryogenesis Explained offers a new theory of how embryos build themselves, and combines simple physics with the most recent biochemical and genetic breakthroughs, based on the authors' prediction and then discovery of differentiation waves. They explain their ideas in a form accessible to the lay person and a broad spectrum of scientists and engineers. The diverse subjects of development, genetics and evolution, and their physics, are brought together to explain this major, previously unanswered scientific question of our time. As a follow up on The Hierarchical Genome, this book is a shorter but conceptually expanded work for the reader who is interested in science. It is useful as a starting point for the curious layman or

the scientist or professional encountering the problem of embryogenesis without the formal biology background. There is also material useful for the seasoned biologist caught up in the new rush of information about the role of mechanics in developmental biology and cellular level mechanics in medicine.

To Clone Or Not to Clone
2007

Biotechnology and Society Hallam Stevens
2016-10-06 With
Biotechnology and Society, Hallam Stevens offers an up-to-date primer to help us understand the interactions of biotechnology and society and the debates, controversies, fears, and hopes that have shaped how we think about bodies, organisms, and life in the twenty-first century. Stevens

addresses such topics as genetically modified foods, cloning, and stem cells; genetic testing and the potential for discrimination; fears of (and, in some cases, hopes for) designer babies; personal genomics; biosecurity; and biotech art. Taken as a whole, the book presents a clear, authoritative picture of the relationship between biotechnology and society today, and how our conceptions (and misconceptions) of it could shape future developments. It is an essential volume for students and scholars working with biotechnology, while still being accessible to the general reader interested in the truth behind breathless media accounts about biotech's promise and perils.

Junk Science Dan Agin, Ph.D. 2007-11-27 An overdue indictment of

government, industry, and faith groups that twist science for their own gain. During the next thirty years, the American public will suffer from a rampage against reason by special interests in government, commerce, and the faith industry, and the rampage has already begun. In *Junk Science*, Dan Agin offers a response—a stinging condemnation of the egregious and constant warping of science for ideological gain. In this provocative, wide-ranging, and hard-hitting book, Agin argues from the center that we will pay a heavy price for the follies of people who consciously twist the public's understanding of the real world. In an entertaining but frank tone, Agin separates fact from conveniently "scientific" fiction and exposes the data faking,

reality ignoring, fear mongering, and outright lying that contribute to intentionally manufactured public ignorance. Many factions twist scientific data to maintain riches and power, and Agin outs them all in sections like these: --"Buyer Beware" (genetically modified foods, aging, and tobacco companies) - -"Medical Follies" (chiropractics, health care, talk therapy) -- "Poison and Bombs in the Greenhouse" (pollution, warfare, global warming) --"Religion, Embryos, and Cloning" --"Genes, Behavior, and Race" We already pay a heavy price for many groups' conscious manipulation of the public's understanding of science, and Junk Science arms us with understanding, cutting through the fabric of lies and setting the record straight.

Last Animals at the Zoo
Colin Tudge 1992

Discusses the current breeding programs and research that has been done in genetics to save animals from extinction, and discusses why this research is necessary

Modern Genetics Lisa Yount 2006-01-01

Profiles geneticists and highlights discoveries they have made; includes Gregor Mendel and the laws of inheritance, James Watson and the structure of DNA, and Stanley Cohen and genetic engineering.

Culturing Life Hannah Landecker 2010-03-30 How did cells make the journey, one we take so much for granted, from their origin in living bodies to something that can be grown and manipulated on artificial media in the laboratory, a substantial biomass living outside a human body, plant, or animal?

This is the question at the heart of Hannah Landecker's book. She shows how cell culture changed the way we think about such central questions of the human condition as individuality, hybridity, and even immortality and asks what it means that we can remove cells from the spatial and temporal constraints of the body and "harness them to human intention." Rather than focus on single discrete biotechnologies and their stories-- embryonic stem cells, transgenic animals-- Landecker documents and explores the wider genre of technique behind artificial forms of cellular life. She traces the lab culture common to all those stories, asking where it came from and what it means to our understanding of life, technology, and the

increasingly blurry boundary between them. The technical culture of cells has transformed the meaning of the term "biological," as life becomes disembodied, distributed widely in space and time. Once we have a more specific grasp on how altering biology changes what it is to be biological, Landecker argues, we may be more prepared to answer the social questions that biotechnology is raising.

Biotechnology Nico Stehr
2017-09-08 "While other books have addressed isolated aspects of recent developments in the biomedical sciences, *Biotechnology: Between Commerce and Civil Society* is the first book to engage with the full range of biotechnology's implications for social science and for society at large." -Professor

Volker Meja New scientific knowledge is no longer merely the key to unlocking the secrets of nature and society. It now represents the "becoming" of a new world. Scientific developments affect the ways in which we conduct our affairs, as well as how we comprehend the changes underway as the result of novel technical artefacts and scientific knowledge. The practical fruits of biotechnology are a case in point; they have grasped our imaginations, and generated worldwide debate and concern. Debates on biotechnology shift between images of utopia and dystopia. The social sciences deserve a voice in the debate, and can do so through sober examination of the economic, social, and cultural implications of biotechnology. Some economists even predict

that the importance of biotechnology as the technology of the future will far exceed that of the information technologies, in particular the Internet. The contributors to this volume are drawn from a broad spectrum of the social sciences, and include Nico Stehr, Gene Rosa, Steve Fuller, Steve Best and Douglas Kellner, Nikolas Rose, Fred Buttel, Javier Lezaun, Anne Kerr, Susanna Hornig Priest and Toby Ten Eyck, Martin Schulte, Alexander Somek, Steven P. Vallas, Daniel Lee Kleinman, Abby Kinchy and Raul Necochea, Herbert Gottweis, J. Rogers Hollingsworth, Gysli Pblsson, Elizabeth Ettore, Richard Hindmarch and Reiner Grundmann. The impact of science on society is destined to be a fundamental concern in the new century. This

volume illustrates the contributions anthropology, law, political science, and sociology can make to the ongoing discussions about the role of biotechnology in modern societies. Nico Stehr is senior research associate, Institut für Technikfolgenabschätzung, Forschungszentrum Karlsruhe and Institut für Kostenforschung, GKSS, Germany. He also is a fellow in the Center for Advanced Cultural Studies in Essen, Germany, editor of the Canadian Journal of Sociology, and a fellow of the Royal Society of Canada. Among his recent books are Werner Sombart: Economic Life in the Modern Age (with Reiner Grundmann, published by Transaction); The Fragility of Modern Societies: Knowledge and Risk in the Information Age; Knowledge and

Economic Conduct: The Social Foundations of the Modern Economy; and Wissenspolitik: Die Überwachung des Wissens. The Ethics of Genetic Engineering Roberta M. Berry 2013-05-13 Human genetic engineering may soon be possible. The gathering debate about this prospect already threatens to become mired in irresolvable disagreement. After surveying the scientific and technological developments that have brought us to this pass, The Ethics of Genetic Engineering focuses on the ethical and policy debate, noting the deep divide that separates proponents and opponents. The book locates the source of this divide in differing framing assumptions: reductionist pluralist on one side, holist communitarian on the other. The book argues that we must bridge this

divide, drawing on the resources from both encampments, if we are to understand and cope with the distinctive problems posed by genetic engineering. These problems, termed "fractious problems," are novel, complex, ethically fraught, unavoidably of public concern, and unavoidably divisive. Berry examines three prominent ethical and political theories – utilitarianism, Kantianism, and virtue ethics – to consider their competency in bridging the divide and addressing these fractious problems. The book concludes that virtue ethics can best guide parental decision making and that a new policymaking approach sketched here, a "navigational approach," can best guide policymaking. These approaches enable us to gain a rich

understanding of the problems posed and to craft resolutions adequate to their challenges.

Bioethics, Politics and Business 2008

The Oxford Encyclopedia of Food and Drink in

America Andrew Smith

2013-01-31 The second edition of the Oxford Encyclopedia of Food and Drink in America, originally published in September 2004, covers the significant events, inventions, and social movements that have shaped the way Americans view, prepare, and consume food and drink. Entries range across historical periods and the trends that characterize them. The thoroughly updated new edition captures the shifting American perspective on food and is the most authoritative and the most current reference work on American

cuisine.
Cloning Kara Rogers
Senior Editor,
Biomedical Sciences
2015-07-15 Since the
early 20th century, when
Hans Spemann first
twinned salamander
embryos, scientists have
made astounding progress
in the science and
technology of cloning.
They have now developed
the means to apply
cloning in research,
agriculture, and
medicine. With
advancements in cloning
techniques for stem cell
research, scientists
have been able to
explore human diseases
at a cellular level,
attempting to better
understand the cellular
mechanisms involved in
disease. Readers explore
the history, science,
applications, and
ethical issues of
cloning. Sidebars
profile pioneers in the
field, including John
Bertrand Gurdon, Ian

Wilmut, Shinya Yamanaka,
and James Thomson.
Biokapital Josef Barla
2022-06-22 Durch die
Nutzung von Gen- und
Reproduktionstechnologie
n und den systematischen
Einsatz
biowissenschaftlichen
Wissens sind in den
vergangenen Jahrzehnten
neue Formen menschlicher
und nicht-menschlicher
Arbeit entstanden.
Gleichzeitig wird Natur
zunehmend als
Dienstleisterin oder
»Kapital« begriffen.
Diese Verbindung
biologischer Prozesse
und kapitalistischer
Inwertsetzung wirft
zahlreiche drängende
gesellschaftliche,
politische und ethische
Fragen auf. »Biokapital«
versammelt erstmals
zentrale Beiträge zu
diesem Themenkomplex in
deutscher Sprache,
stellt die wichtigsten
Positionen und
Problemfelder vor und
liefert einen breiten

Überblick über die internationale Debatte zum Verhältnis von Leben und Ökonomie sowie Biopolitik und Kapitalismus.

Darwin and International Relations

Bradley A. Thayer 2021-03-17 Pathbreaking and controversial, Darwin and International Relations offers the first comprehensive analysis of international affairs of state through the lens of evolutionary theory. Bradley A. Thayer provides a new method for investigating and explaining human and state behavior while generating insights into the origins of human and animal warfare, ethnic conflict, and the influence of disease on international relations. Using ethnological and statistical studies of warfare among tribal societies, Thayer argues that humans wage war for

reasons predicted by evolutionary theory—to gain and protect vital resources but also for the physically and emotionally stimulating effects of combat.

Thayer demonstrates that an evolutionary understanding of disease will become a more important part of the study of international relations as new strains of diseases emerge and advances in genetics make biological warfare a more effective weapon for states and terrorists. He also explains the deep causes of ethnic conflict by illuminating how xenophobia and ethnocentrism evolved in humans. He notes that these behaviors once contributed to our ancestors' success in radically different environments, but they remain a part of us. Darwin and International Relations makes a major

contribution to our understanding of human history and the future of international relations.

An Introduction to Genetic Engineering, Life Sciences and the Law George Wei 2002 The moral, social, economic and legal issues raised by work in the life sciences are immense. These include the legal issues that concern the use and abuse of genetic information. This book is an introductory survey of the relations between the life sciences and the law.

Second Creation Ian Wilmut 2001-07-01 "Fathers" of the famous cloned sheep explain their work at Edinburgh University-affiliated Roslin Institute and its controversial scientific and ethical ramifications.

Cloning Aaron D. Levine 2012-12-01 Would you drink milk from a cloned

cow? Should we clone extinct or endangered species? Are we justified in using stem cells to develop cures? When will we clone the first human? Ever since Dolly the sheep, such questions have rarely been far from the public consciousness. Aaron Levine explains the science of cloning and guides readers around the thorny political and ethical issues that have developed.

Individualität im 21. Jahrhundert Christoph P.E. Zollikofer 2011 "Wieso sind Tiere keine Personen? Verändert sich die Persönlichkeit eines Menschen nach einer Herztransplantation? Kann man bei virtuellen Konstrukten im Internet von Personen reden? Wieso hat das individuelle Genom keinen Personenstatus? Diese und weitere Fragen stehen im Zentrum der Publikation.

Vertreterinnen und
Vertreter aus
verschiedenen
geisteswissenschaftliche
n und
naturwissenschaftlichen
Disziplinen sowie
Schriftsteller und
Künstler kommen zu Wort.
Der Titel "'Klon statt
Person? Individualität
im 21. Jahrhundert'"
verweist in leicht
provokanter Weise auf
eine Herausforderung,
der sich die Menschen zu
Beginn des 21.
Jahrhunderts zu stellen
haben. Die Möglichkeit,
Individuen zu klonen,
stellt die Begriffe
"'Person'" und
"'Individualität'"
grundsätzlich in Frage
und bringt somit das
abendländische
Grundverständnis des
Menschen ins Wanken."
The Second Creation 2000
The Second Creation Ian
Wilmut 2001 "Fathers" of
the famous cloned sheep
explain their work at
Edinburgh University-

affiliated Roslin
Institute and its
controversial scientific
and ethical
ramifications.

**Science in the
Contemporary World** Eric
Gottfrid Swedin 2005
This work is a unique
introductory A-Z
resource detailing the
scientific achievements
of the contemporary
world and analyzing the
key scientific trends,
discoveries, and
personalities of the
modern age. * Over 200
A-Z entries covering
topics ranging from
plate tectonics to the
first Moon landings *
More than 40 stunning
photographs providing a
unique pictorial
chronicle of the
achievements of modern
science

**The Oxford Companion to
the History of Modern
Science** John L. Heilbron
2003-02-14 Containing
609 encyclopedic
articles written by more

than 200 prominent scholars, The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology, ideas, discoveries, and learned institutions that have shaped our world over the past five centuries. Focusing on the period from the Renaissance to the early twenty-first century, the articles cover all disciplines (Biology, Alchemy, Behaviorism), historical periods (the Scientific Revolution, World War II, the Cold War), concepts (Hypothesis, Space and Time, Ether), and methodologies and philosophies (Observation and Experiment, Darwinism). Coverage is international, tracing the spread of science from its traditional centers and explaining

how the prevailing knowledge of non-Western societies has modified or contributed to the dominant global science as it is currently understood. Revealing the interplay between science and the wider culture, the Companion includes entries on topics such as minority groups, art, religion, and science's practical applications. One hundred biographies of the most iconic historic figures, chosen for their contributions to science and the interest of their lives, are also included. Above all The Oxford Companion to the History of Modern Science is a companion to world history: modern in coverage, generous in breadth, and cosmopolitan in scope. The volume's utility is enhanced by a thematic outline of the entire contents, a thorough system of cross-

referencing, and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points. Each essay has numerous suggestions for further reading, all of which favor literature that is accessible to the general reader, and a bibliographical essay provides a general overview of the scholarship in the field. Lastly, as a contribution to the visual appeal of the Companion, over 100 black-and-white illustrations and an eight-page color section capture the eye and spark the imagination.

Beyond Cloning Ronald Cole-Turner 2001-02-01
This book examines the ways that Christians from a variety of different confessions can respond to the issue of genetic engineering.

Human Cloning in the Media

Joan Haran
2007-10-15
This book provides an intensive exploration of recent popular representations of human cloning, genetics and the concerns which they generate and mobilise. It is a timely contribution to current debates about the public communication of science and about the cultural and political stakes in those debates. Taking the UK as its main case study, with cross-cultural comparisons with the USA and South Korea, the book explores the proposition that genomics is 'the publicly mediated science par excellence', through detailed reference to the rhetoric and images around human reproductive and therapeutic cloning which have proliferated in the wake of the

'completion' of the Human Genome Project (2000). The book offers a set of distinctive analyses of media and cultural texts – including press and television news, Hollywood and independent film drama, documentaries, art exhibits and websites – and in dialogue with the producers and consumers of these texts. From these investigations, key issues are foregrounded: the image of the scientist, scientific expertise and institutions; the governance of science; the representation of women's bodies as the subjects and objects of biotechnology; and the constitution of publics, both as objects of media debate, and as their intended audience. This examination demonstrates the importance of mediation, media institutions, and media

texts in the production of scientific knowledge. Countering models that see 'the media' as simply a channel through which scientific knowledge passes, this book will emphasise the importance of communications technologies in the production of modern scientific knowledge and their particular significance in contemporary genomics. It will argue that human genomic science – and cloning as its current iconic manifestation – has to be understood as a complex cultural production.

Accelerate! James Brooke-Smith 2022-09-29
The 1990s was the decade in which Google was launched, Nelson Mandela was released from prison and scientists in Edinburgh cloned a sheep from a single cell. It was also a time in which the President of the

United States discussed
fellatio on network
television and the
worlds most photographed
woman died in a car
crash in Paris. The
radical pop band the KLF
burned a million quid on
a Scottish island and
the most-watched
programme on TV was
Baywatch. For those who
lived through it, the
1990s glow in the memory
with a beguiling mixture
of proximity and
distance, familiarity
and strangeness. It is
the decade about which
we know too much, yet
understand too little.
Ranging far and wide
across social history
and popular culture,
James Brookes-Smith
takes us on a
refreshingly eclectic
journey through its
themes and
contradictions,
exploring the central
question of whether the
decade should be
regarded as a lost

golden age of liberal
tolerance or as a
seedbed for the
discontents we face
today.

A to Z of Biologists

Lisa Yount 2009-01-01
Profiles more than 150
scientists from around
the world who made
important contributions
to the field of biology,
including Claude
Bernard, Alexander
Fleming, Mary-Claire
King, Ronald Ross, and
Tetsuko Takabe.

Genetic Engineering Mark
Y. Herring 2006 Presents
an overview of genetic
engineering, detailing
its history, its
techniques, and its
controversial
application in the
cloning of animals,
modification of foods,
genome mapping, DNA
profiling, and treatment
of disease.

**Reproductive Issues in
America** Janna C. Merrick
2003 Provides an
introductory essay;

biographies of activists, legislators, and advocates; a chronology of events, legislation, and movements; a directory of organizations; and a listing of print and nonprint resources.

Science in Popular Culture A. Bowdoin Van Riper 2002 Spaceships travel through time at lightspeed, piloted by human clones and talking animals. Serious injuries are healed with the wave of a medical gizmo. The media make it all look so real. Can scientists hope to one day accomplish these feats? This book is a fun look at what can, and can't, be achieved with current technology.

Education and the Spirit of Time Olli-Pekka Moisio 2006 The aim of this book is to raise current social, political, and moral issues in social theory by taking a critical

stance towards historical, global, and educational themes in the context of culture, politics, and technology. All the contributors have written their texts in the spirit of critical Zeitgeist analysis, which, they believe, is a highly needed genre in social theory. Thus the focus of the book is critical Zeitgeist analysis, and its potential in addressing various social maladies of the present era. Methodologically, critical Zeitgeist analysis is argued to be of value in demonstrating how to both utilize and expand the possibilities of writing normative social theory. The key idea of critical Zeitgeist analysis is to reflect critically on the state of the present world. In this task it entwines analytical, political

and moral languages, as well as the languages of critique and hope. In critical Zeitgeist analysis it is not only possible but also necessary to ask who we are, and what states of affairs prevail in our tragic times. The themes of the book are global and it can be used as a course book in several fields of social science like cultural studies, education and political science, as well as in sociology.

Environmental Sociology
Matthias Groß 2010-06-17
Despite being a relatively young sub-discipline, European environmental sociology has changed considerably in the last decades towards more interdisciplinary collaborations and problem solving. Current trends such as global environmental modernization and processes of economic,

political and socio-cultural globalization, fuelled by developments of transport, environmental flows, scientific uncertainty, and information technologies, have fostered new conceptual approaches that move beyond classical sociological mind-sets toward broader attempts to connect to other disciplines.

The 100 Most Influential Inventors of All Time

Britannica Educational Publishing 2009-10-01
If necessity is indeed the mother of invention, then the individuals profiled in this volume should be considered the most laudable of all midwives. They each saw a need and met it. Readers will learn more about the lives and methodologies of well-known inventors such as Benjamin Franklin and Thomas Edison, and become familiar with

several more whose creations have sometimes outstripped their personal fame.

Biotechnology for Beginners Reinhard Renneberg 2016-11-25
Biotechnology for Beginners, Second Edition, presents the latest information and developments from the field of biotechnology—the applied science of using living organisms and their by-products for commercial development—which has grown and evolved to such an extent over the past few years that increasing numbers of professionals work in areas that are directly impacted by the science. For the first time, this book offers an exciting and colorful overview of biotechnology for professionals and students in a wide array of the life sciences, including genetics,

immunology, biochemistry, agronomy, and animal science. This book also appeals to the lay reader without a scientific background who is interested in an entertaining and informative introduction to the key aspects of biotechnology. Authors Renneberg and Demain discuss the opportunities and risks of individual technologies and provide historical data in easy-to-reference boxes, highlighting key topics. The book covers all major aspects of the field, from food biotechnology to enzymes, genetic engineering, viruses, antibodies, and vaccines, to environmental biotechnology, transgenic animals, analytical biotechnology, and the human genome. This stimulating book is the

most user-friendly source for a comprehensive overview of this complex field. Provides accessible content to the lay reader who does not have an extensive scientific background Includes all facets of biotechnology applications Covers articles from the most respected scientists, including Alan Guttmacher, Carl Djerassi, Frances S. Ligler, Jared Diamond, Susan Greenfield, and more Contains a summary, annotated references, links to useful web sites, and appealing review questions at the end of each chapter Presents more than 600 color figures and over 100 illustrations Written in an enthusiastic and engaging style unlike other existing theoretical and dry-style biotechnology books

Sheep Philip Armstrong
2016-06-15 The ancient Egyptians worshipped them, the Romans dressed them in fitted coats, and the Christians associated them with their divine savior. In Sheep, Philip Armstrong traces the natural and cultural history of both wild and domestic species of ovis, from the Old World mouflon to the corkscrew-horned flocks of the Egyptians, from the Trojan sheep of Homer's *Odyssey* to the cannibal sheep of Thomas More's *Utopia*, from the vast migratory mobs of Spanish merinos all the way to Dolly—the first animal we have ever cloned—and Haruki Murakami's sheep-human hybrids. As Armstrong shows, humans have treated sheep with awe, cruelty or disdain for many thousands of years. Our exploitation of them for milk, meat, and wool—but also for

artistic and cultural purposes—has shaped both our history and theirs. Despite all that we owe them we have often dismissed sheep as the least witted and least interesting of mammals: to be accused of “sheepishness” or behaving “like a flock of sheep” is to be denigrated for lack of courage, individuality, or will. Yet, as this book demonstrates, sheep actually possess highly sophisticated social skills and emotional intelligence. Above all, Sheep demonstrates that sometimes the most mundane animals turn out to be the most surprising.

The Second Tree Elaine Dewar 2010-07-07 The Second Tree documents a biological revolution that will change the way you think about the material world, your own life and even the inevitability of your

own death Genetic scientists are busily pushing back the boundaries of the humanly possible, climbing the branches of a tree of life that has been grafted by man, not God. Elaine Dewar chronicles the lives, the discoveries, and the feuds among modern biologists, exploring how they have crafted the tools to alter human evolution. She travels the globe on the trail of Charles Darwin and his intellectual descendants, telling the story of James D. Watson and his partner Francis Crick, who first described DNA; of Frederick Sanger, who invented how to sequence genes and won two Nobel prizes; of the computer scientists who put the human genome on the World Wide Web. She visits companies that are trying to turn cloned sheep into

pharmacies on the hoof, to resurrect prize cows from the grave, to transplant human genes into mice – ultimately attempting to give us immortality in pieces while trying to keep investors happy. As these tales spill out, we find out how biologists learn by doing: tearing mice and worms and flies and human eggs apart, twinning disparate animal cells and genes together – creating clones and chimeras as outlandish as any sphinx. In public, research biologists often express their good intentions about curing the big diseases. In private, many of them are compelled by furious struggles to be rich, famous and first. Dewar lays bare the motives, conflicts and fears of the men and women whose job it is to trespass the boundaries of what

laypeople consider ethical and sacred. *Integrating Literature in the Disciplines* Sharon Kane 2020-04-30 The Second Edition of this practical and comprehensive resource offers a multitude of ways to incorporate literature into teaching and learning across a range of disciplines. Future and practicing teachers, librarians, instructional coaches, and school leaders can implement the ideas within this text to improve the literacy skills and knowledge of students, while also addressing standards and curricular goals of various content areas. The new edition recognizes a paradigm shift from content areas to disciplines, reflecting the specific ways reading and writing are used in different fields of study. Updated with current research

and practices, the volume recommends and evaluates books in different genres and categories, with chapters on informational books; fiction; biography and memoir; poetry; and hands-on and how-to books. For every category, Kane provides a rationale, instructional strategies, and author studies, as well as lists and descriptions of books related to curricular areas. With a wealth of activities and new BookTalks, this Second Edition is greatly revised and features expanded attention to technology, digital learning, diversity, and culture. Using this text will create opportunities for deep discussions and will stimulate students' interest and motivation to read and learn. Integrating Literature

in the Disciplines helps educators identify books that fit with any subject to enhance the creative and affective dimensions of school life; encourages interdisciplinary connections; and increases the depth and relevance of lessons. It is ideal for professional development and serves as a tool for Readers' Advisory to match books with readers throughout the school day and beyond. *Ethics in Biomedical Research* Matti Häyry 2007-01 This book deals with the international assessment and regulation of biomedical research. In its chapters, some of the leading figures in today's bioethics address questions centred on global development, scientific advances, and vulnerability. The series Values In Bioethics makes

available original
philosophical books in
all areas of bioethics,
including medical and

nursing ethics, health
care ethics, research
ethics, environmental
ethics, and global
bioethics.