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The Body as Object and Instrument of Knowledge

Communication Matters: Because great communicators are made, not born. Through Communication Matters' highly interactive program, students learn that our instincts aren't as good as we think they are and develop the skills needed to become effective communicators. The program prompts students to question their assumptions, helps them to move beyond their personal daily communication experiences, and challenges them to think critically about why and how they communicate in the ways they do. Connect for Communication Matters, Second Edition, reflects our increasingly diverse, interactive, and digital world by using hands-on features. Through an interactive eBook, a suite of student videos for public speaking, and dynamic online activities, students are urged to consider which choices are likely to be effective and which less so. LearnSmart, McGraw-Hill's adaptive learning system, assesses students' knowledge of course content and maps out personalized study plans for success. The result: Students are able to internalize core communication principles, adapt their communication behavior more effectively, and actively apply those strategies to all aspects of their lives.

Aurora

For seventeen-year-old Lena, living in the trailer park with the rest of town's throwaways isn't exactly paradise. Dealing with a drunken father who can't keep his fists to himself doesn't help matters either. The only good thing in her life, other than track, is the mysterious man who visits her dreams, promising to find her. When a

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chair burns her arms, Lena chalks it up to stress-induced crazy. Yet as bizarre incidents escalate, even being crazy can't explain it all away until one day dream guy does find her. Tarek lost Lena seventeen years ago after she was accused of treason and marked Tainted. He finally discovers her reborn on Earth into a life of suffering as punishment for her crime. However, someone else has already found her and wants her dead. Willing to sacrifice everything, he fights to keep her safe so she can live the only life she's ever known-even if that life doesn't include him.

A Comparison of AASHTO Bridge Load Rating Methods

Deicing Planning Guidelines and Practices for Stormwater Management Systems

The Future of Nursing explores how nurses' roles, responsibilities, and education should change significantly to meet the increased demand for care that will be created by health care reform and to advance improvements in America's increasingly complex health system. At more than 3 million in number, nurses make up the single largest segment of the health care work force. They also spend the greatest amount of time in delivering patient care as a profession. Nurses therefore have valuable insights and unique abilities to contribute as partners with other health care professionals in improving the quality and safety of care as envisioned in the Affordable Care Act (ACA) enacted this year. Nurses should be fully engaged with other health professionals and assume leadership roles in redesigning care in the United States. To ensure its members are well-prepared, the profession should institute residency training for nurses, increase the percentage of nurses who attain a bachelor's degree to 80 percent by 2020, and double the number who pursue doctorates. Furthermore, regulatory and institutional obstacles -- including limits on nurses' scope of practice -- should be removed so that the health system can reap the full benefit of nurses' training, skills, and knowledge in patient care. In this book, the Institute of Medicine makes recommendations for an action-oriented blueprint for the future of nursing.

Imaginary Cartographies

In the United States, broad study in an array of different disciplines -- arts, humanities, science, mathematics, engineering -- as well as an in-depth study within a special area of interest, have been defining characteristics of a higher education. But over time, in-depth study in a major discipline has come to dominate the curricula at many institutions. This evolution of the curriculum has been driven, in part, by increasing specialization in the academic disciplines. There is little doubt that disciplinary specialization has helped produce many of the achievements of the past century. Researchers in all academic disciplines have been able to delve more deeply into their areas of expertise, grappling with ever more specialized and fundamental problems. Yet today, many leaders, scholars, parents, and students are asking whether higher education has moved too far from its integrative tradition towards an approach heavily rooted in disciplinary "silos". These "silos" represent what many see as an artificial separation of academic disciplines. This study reflects a growing concern that the approach to higher education that favors disciplinary specialization is

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poorly calibrated to the challenges and opportunities of our time. The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education examines the evidence behind the assertion that educational programs that mutually integrate learning experiences in the humanities and arts with science, technology, engineering, mathematics, and medicine (STEMM) lead to improved educational and career outcomes for undergraduate and graduate students. It explores evidence regarding the value of integrating more STEMM curricula and labs into the academic programs of students majoring in the humanities and arts and evidence regarding the value of integrating curricula and experiences in the arts and humanities into college and university STEMM education programs.

No Deal Breakers

A depressed would-be groom and a runaway with a dark past collide and make a split second decision to marry. Marriage seems the only answer to both of their problems. Brian just wants a wife and a family. Aria needs safety, home, and as far away from her past as she can get. At first Aria's only logical solution is to marry the first man that proposes, but once she gets to know him she realizes what a mistake that was. Too bad they've already said "I do" After much convincing from Brian, Aria decides to head home to Iowa with him and attempt to make it work. Will Iowa be far enough away from Las Vegas and her dark past, or will it all catch up to her and prove to be too much for them to handle together? This is a story of faith, love, forgiveness, redemption and God's unfailing mercy and love for us, no matter who we've been in the past. No Deal Breakers is a stand alone in the Hanesworth Series. While all of the books take place in the same small town and feature some familiar faces, they can be read alone.

Parenting Matters

The contributors to this volume show how the practices of health in Southeast Asia over the past two centuries were mediated by local medical traditions, colonial interests, range of health agents and intermediaries.

Dead Aid

This volume, developed by the Observatory together with OECD, provides an overall conceptual framework for understanding and applying strategies aimed at improving quality of care. Crucially, it summarizes available evidence on different quality strategies and provides recommendations for their implementation. This book is intended to help policy-makers to understand concepts of quality and to support them to evaluate single strategies and combinations of strategies.

Tainted Energy

How, in the years before the advent of urban maps, did city residents conceptualize and navigate their communities? In his strikingly original book, Daniel Lord Smail develops a new method and a new vocabulary for understanding how urban men and women thought about their personal geography. His thorough research of property records of late medieval Marseille leads him to conclude that its inhabitants charted

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their city, its social structure, and their own identities within that structure through a set of cartographic grammars which powerfully shaped their lives. Prior to the fourteenth century, different interest groups—notaries, royal officials, church officials, artisans—developed their own cartographies in accordance with their own social, political, or administrative agendas. These competing templates were created around units ranging from streets and islands to vicinities and landmarks. Smail shows how the notarial template, which privileged the street as the most basic marker of address, gradually emerged as the cartographic norm. This transformation, he argues, led to the rise of modern urban maps and helped to inaugurate the process whereby street addresses were attached to citizen identities, a crucial development in the larger enterprise of nation building. *Imaginary Cartographies* opens up powerful new means for exploring late medieval and Renaissance urban society while advancing understanding of the role of social perceptions in history.

Strengthening Forensic Science in the United States

This book provides a ground-breaking assessment of the economic and social impacts of electronic commerce and its effects on jobs by drawing on existing qualitative and quantitative evidence.

The Economic and Social Impact of Electronic Commerce Preliminary Findings and Research Agenda

The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. *The Future of the Public's Health in the 21st Century* reaffirms the vision of *Healthy People 2010*, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health advocates, educators and journalists.

Global Movements, Local Concerns

Presents a controversial history of violence which argues that today's world is the most peaceful time in human existence, drawing on psychological insights into intrinsic values that are causing people to condemn violence as an acceptable measure.

Collecting Experiments

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Out of the diverse traditions of medical humanism, classical philology, and natural philosophy, Renaissance naturalists created a new science devoted to discovering and describing plants and animals. Drawing on published natural histories, manuscript correspondence, garden plans, travelogues, watercolors, and drawings, *The Science of Describing* reconstructs the evolution of this discipline of description through four generations of naturalists. In the late fifteenth and early sixteenth centuries, naturalists focused on understanding ancient and medieval descriptions of the natural world, but by the mid-sixteenth century naturalists turned toward distinguishing and cataloguing new plant and animal species. To do so, they developed new techniques of observing and recording, created botanical gardens and herbaria, and exchanged correspondence and specimens within an international community. By the early seventeenth century, naturalists began the daunting task of sorting through the wealth of information they had accumulated, putting a new emphasis on taxonomy and classification. Illustrated with woodcuts, engravings, and photographs, *The Science of Describing* is the first broad interpretation of Renaissance natural history in more than a generation and will appeal widely to an interdisciplinary audience.

The Embarrassment of Riches

The Aurora family is back in action. This time we find Adam, a 25 year old Italian man, who wants to be a Police Officer like his pop, Jack. Adam's application keeps getting rejected by the local Police Academy outside of Brooklyn, NY. To make matters worse, a serial killer is running loose with no one to stop him because several Police Precincts are on strike due to budget cuts. Fed up with the situation, Adam and Jack decided to take matters into their own hands by enlisting some of Jack's fellow colleagues. Can Adam and Jack stop this serial killer or will he get away with murder?

Malarial Subjects

This volume addresses the interface of two major national problems: the epidemic of HIV-AIDS and the widespread use of illegal injection drugs. Should communities have the option of giving drug users sterile needles or bleach for cleaning needs in order to reduce the spread of HIV? Does needle distribution worsen the drug problem, as opponents of such programs argue? Do they reduce the spread of other serious diseases, such as hepatitis? Do they result in more used needles being carelessly discarded in the community? The panel takes a critical look at the available data on needle exchange and bleach distribution programs, reaches conclusions about their efficacy, and offers concrete recommendations for public policy to reduce the spread of HIV/AIDS. The book includes current knowledge about the epidemiologies of HIV/AIDS and injection drug use; characteristics of needle exchange and bleach distribution programs and views on those programs from diverse community groups; and a discussion of laws designed to control possession of needles, their impact on needle sharing among injection drug users, and their implications for needle exchange programs.

Improving Healthcare Quality in Europe Characteristics, Effectiveness and Implementation of Different Strategies

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This interdisciplinary work, the first of two volumes, presents essays on various aspects of disease, medicine, and healing in different locations in and around the Indian Ocean from the ninth century to the early modern period. Themes include theoretical explanations for disease, concepts of fertility, material culture, healing in relation to diplomacy and colonialism, public health, and the health of slaves and migrant workers. Overall, the books argue that, throughout the period of study, the Indian Ocean has been the site of multiple interconnected medical interactions that may be viewed in the context of the environmental factors connecting the region. The two volumes are the first to use the Indian Ocean World as a geographical and conceptual framework for the study of disease. It will appeal to academics and graduate students working in the fields of medical and scientific history, as well as in the growing fields of Indian Ocean studies and global history.

A Framework for Assessing Effects of the Food System

TRB's Airport Cooperative Research Program (ACRP) Research Report 184: Executive Summary for the Guidebook on Understanding FAA Grant Assurance Obligations is the executive summary of the Guidebook on Understanding FAA Grant Assurance Obligations (published as ACRP Web-Only Document 44, Volume 1) and explains each of the 39 grant assurances. This summary includes a matrix that outlines major aspects of the program such as duration and applicability, and it provides a list of related assurances. The matrix is included in ACRP Web-Only Document 44, Volume 1, where it includes links to specific sections of the Guidebook that discuss each grant assurance in more detail. The detailed discussions, which include lists of required practices, prohibited practices, permitted practices, and exceptions, are available in additional volumes of ACRP Web-Only Document 44.

Health Data in the Information Age

This book examines how and why British imperial rule shaped scientific knowledge about malaria and its cures in nineteenth-century India. This title is also available as Open Access.

Bitter Roots

This book covers interesting research topics and the use of natural resources for medical treatments in some severe diseases. The most important message is to have native foods which contain high amount of active compounds that can be used as a medicinal plant. Most pharmaceutical drugs were discovered from plants, and still ongoing research will have to predict such new active compounds as anti-diseases. I do believe this book will add significant knowledge to medical societies as well as can be used for postgraduate students.

My First Kill

Ryan Matters Series, Volume 1: You ever wonder what it would feel like to seek vengeance on those that destroyed the vision of life as you knew it? To feel a steel blade slice through the flesh of another, gliding throughout their muscles and vessels, feeling the warmth of their blood ooze through your fingers. What if you can live that

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life without recourse of the law? Well now you can, with detailed, graphic, heart pounding visions that forces you to be a part of the storyline; whether you want to be or not. Once you open this book, you'll become Ryan, do what Ryan does, and be captivated by the life of crime.

Communication Matters

Disease Control Priorities, Third Edition (Volume 7)

How we produce and consume food has a bigger impact on Americans' well-being than any other human activity. The food industry is the largest sector of our economy; food touches everything from our health to the environment, climate change, economic inequality, and the federal budget. From the earliest developments of agriculture, a major goal has been to attain sufficient foods that provide the energy and the nutrients needed for a healthy, active life. Over time, food production, processing, marketing, and consumption have evolved and become highly complex. The challenges of improving the food system in the 21st century will require systemic approaches that take full account of social, economic, ecological, and evolutionary factors. Policy or business interventions involving a segment of the food system often have consequences beyond the original issue the intervention was meant to address. A Framework for Assessing Effects of the Food System develops an analytical framework for assessing effects associated with the ways in which food is grown, processed, distributed, marketed, retailed, and consumed in the United States. The framework will allow users to recognize effects across the full food system, consider all domains and dimensions of effects, account for systems dynamics and complexities, and choose appropriate methods for analysis. This report provides example applications of the framework based on complex questions that are currently under debate: consumption of a healthy and safe diet, food security, animal welfare, and preserving the environment and its resources. A Framework for Assessing Effects of the Food System describes the U.S. food system and provides a brief history of its evolution into the current system. This report identifies some of the real and potential implications of the current system in terms of its health, environmental, and socioeconomic effects along with a sense for the complexities of the system, potential metrics, and some of the data needs that are required to assess the effects. The overview of the food system and the framework described in this report will be an essential resource for decision makers, researchers, and others to examine the possible impacts of alternative policies or agricultural or food processing practices.

Mercury; a History of Quicksilver

Regional health care databases are being established around the country with the goal of providing timely and useful information to policymakers, physicians, and patients. But their emergence is raising important and sometimes controversial questions about the collection, quality, and appropriate use of health care data. Based on experience with databases now in operation and in development, Health Data in the Information Age provides a clear set of guidelines and principles for exploiting the potential benefits of aggregated health data--without jeopardizing confidentiality. A

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panel of experts identifies characteristics of emerging health database organizations (HDOs). The committee explores how HDOs can maintain the quality of their data, what policies and practices they should adopt, how they can prepare for linkages with computer-based patient records, and how diverse groups from researchers to health care administrators might use aggregated data. *Health Data in the Information Age* offers frank analysis and guidelines that will be invaluable to anyone interested in the operation of health care databases.

The Science of Describing

A Commerce of Knowledge tells the story of three generations of Church of England chaplains who served the English Levant Company in Syria during the seventeenth and eighteenth centuries. Reconstructing the careers of its protagonists in the cosmopolitan city of Ottoman Aleppo, Simon Mills investigates the links between English commercial and diplomatic expansion, and English scholarly and missionary interests: the study of Middle-Eastern languages; the exploration of biblical and Greco-Roman antiquities; and the early dissemination of Protestant literature in Arabic. Early modern Orientalism is usually conceived as an episode in the history of scholarship. By shifting the focus to Aleppo, *A Commerce of Knowledge* brings to light the connections between the seemingly separate worlds, tracing the emergence of new kinds of philological and archaeological enquiry in England back to a series of real-world encounters between the chaplains and the scribes, booksellers, priests, rabbis, and sheikhs they encountered in the Ottoman Empire. Setting the careers of its protagonists against a background of broader developments across Protestant and Catholic Europe, Mills shows how the institutionalization of English scholarship, and the later English attempt to influence the Eastern Christian churches, were bound up with the international struggle to establish a commercial foothold in the Levant. He argues that these connections would endure until the shift of British commercial and imperial interests to the Indian subcontinent in the second half of the eighteenth century fostered new currents of intellectual life at home.

Civic Medicine

Describes the cultural and social milieu of seventeenth-century Holland, where, despite great material wealth and general prosperity, an "anxiety of superabundance" permeated all aspects of the culture

Science, the Endless Frontier

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science

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disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Young Descartes

Describes the state of postwar development policy in Africa that has channeled billions of dollars in aid but failed to either reduce poverty or increase growth, offering a hopeful vision of how to address the problem.

The Future of the Public's Health in the 21st Century

In this provocative book, Richard Sennett looks at the ways today's global, ever-mutable form of capitalism is affecting our lives. He analyzes how changes in work ethic, in our attitudes toward merit and talent, and in public and private institutions have all contributed to what he terms 'the spectre of uselessness', and he concludes with suggestions to counter this disturbing new culture.

Executive Summary for the Guidebook on Understanding FAA Grant Assurance Obligations

This influential report described science as "a largely unexplored hinterland" that would provide the "essential key" to the economic prosperity of the post World War II years.

Safeguarding the Bioeconomy

Databases have revolutionized nearly every aspect of our lives. Information of all sorts is being collected on a massive scale, from Google to Facebook and well beyond. But as the amount of information in databases explodes, we are forced to reassess our ideas about what knowledge is, how it is produced, to whom it belongs, and who can be credited for producing it. Every scientist working today draws on databases to produce scientific knowledge. Databases have become more common than microscopes, voltmeters, and test tubes, and the increasing amount of data has led to major changes in research practices and profound reflections on the proper professional roles of data producers, collectors, curators, and analysts. Collecting Experiments traces the development and use of data collections, especially in the experimental life sciences, from the early twentieth century to the present. It shows that the current revolution is best understood as the coming together of two older ways of knowing—collecting and experimenting, the museum and the laboratory. Ultimately, Bruno J. Strasser argues that by serving as knowledge repositories, as well as indispensable tools for producing new knowledge, these databases function as digital museums for the twenty-first century.

The Passage to Europe

The substantial burden of death and disability that results from interpersonal violence, road traffic injuries, unintentional injuries, occupational health risks, air pollution, climate change, and inadequate water and sanitation falls disproportionately on low- and middle-income countries. Injury Prevention and Environmental Health addresses the risk factors and presents updated data on the burden, as well as economic analyses of platforms and packages for delivering cost-effective and feasible interventions in these settings. The volume's contributors demonstrate that implementation of a range of prevention strategies-presented in an essential package of interventions and policies-could achieve a convergence in death and disability rates that would avert more than 7.5 million deaths a year.

The Better Angels of Our Nature

TRB ' s National Cooperative Highway Research Program (NCHRP) Report 700: A Comparison of AASHTO Bridge Load Rating Methods documents an analysis of 1,500 bridges that represent various material types and configurations using AASHTOWare™ Virtis® to compare the load factor rating to load and resistance factor rating for both moment and shear induced by design vehicles, American Association of State Highway and Transportation Officials (AASHTO) legal loads, and eight additional permit/legal vehicles.

A Commerce of Knowledge

As financial turmoil in Europe preoccupies political leaders and global markets, it becomes more important than ever to understand the forces that underpin the European Union, hold it together and drive it forward. This timely book provides a gripping account of the realities of power politics among European states and between their leaders. Drawing on long experience working behind the scenes, Luuk van Middelaar captures the dynamics and tensions shaping the European Union from its origins until today. It is a story of unexpected events and twists of fate, bold vision and sheer necessity, told from the perspective of the keyplayers – from de Gaulle to Havel, Thatcher to Merkel. Van Middelaar cuts through the institutional complexity by exploring the unforeseen outcomes of decisive moments and focusing on the quest for public legitimacy. As a first-hand witness to the day-to-day actions and decisions of Europe ' s leaders, the author provides a vivid narrative of the crises and compromises that united a continent. By revisiting the past, he sheds fresh light on the present state of European unification and offers insights into what the future may hold.

Matters of Exchange

"[This book is] the most authoritative assessment of the advantages and disadvantages of recent trends toward the commercialization of health care," says Robert Pear of The New York Times. This major study by the Institute of Medicine examines virtually all aspects of for-profit health care in the United States, including the quality and availability of health care, the cost of medical care, access to financial capital, implications for education and research, and the fiduciary role of the

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physician. In addition to the report, the book contains 15 papers by experts in the field of for-profit health care covering a broad range of topics--from trends in the growth of major investor-owned hospital companies to the ethical issues in for-profit health care. "The report makes a lasting contribution to the health policy literature."--Journal of Health Politics, Policy and Law.

Histories of Medicine and Healing in the Indian Ocean World, Volume One

Communities great and small across Europe for eight centuries have contracted with doctors. Physicians provided citizen care, helped govern, and often led in public life. Civic Medicine stakes out this timely subject by focusing on its golden age, when cities rivaled territorial states in local and global Europe and when civic doctors were central to the rise of shared, organized written information about the human and natural world. This opens the prospect of a long history of knowledge and action shaped more by community and responsibility than market or state, exchange or power.

The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education

Decades of research have demonstrated that the parent-child dyad and the environment of the family "which includes all primary caregivers" are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

For-Profit Enterprise in Health Care

For over a century, plant specialists worldwide have sought to transform healing plants in African countries into pharmaceuticals. And for equally as long, conflicts over these medicinal plants have endured, from stolen recipes and toxic tonics to unfulfilled promises of laboratory equipment and usurped personal patents. In *Bitter Roots*, Abena Dove Osseo-Asare draws on publicly available records and extensive interviews with scientists and healers in Ghana, Madagascar, and South Africa to interpret how African scientists and healers, rural communities, and drug companies—including Pfizer, Bristol-Myers Squibb, and Unilever—have sought since the 1880s to develop drugs from Africa's medicinal plants. Osseo-Asare recalls the efforts to transform six plants into pharmaceuticals: rosy periwinkle, Asiatic pennywort, grains of paradise, *Strophanthus*, *Cryptolepis*, and *Hoodia*. Through the stories of each plant, she shows that herbal medicine and pharmaceutical chemistry have simultaneous and overlapping histories that cross geographic boundaries. At the same time, Osseo-Asare sheds new light on how various interests have tried to manage the rights to these healing plants and probes the challenges associated with assigning ownership to plants and their biochemical components. A fascinating examination of the history of medicine in colonial and postcolonial Africa, *Bitter Roots* will be indispensable for scholars of Africa; historians interested in medicine, biochemistry, and society; and policy makers concerned with drug access and patent rights.

Aromatic and Medicinal Plants

It was in 1660s England, according to the received view, in the Royal Society of London, that science acquired the form of empirical enquiry we recognize as our own: an open, collaborative experimental practice, mediated by specially-designed instruments, supported by civil discourse, stressing accuracy and replicability. Guided by the philosophy of Francis Bacon, by Protestant ideas of this worldly benevolence, by gentlemanly codes of decorum and by a dominant interest in mechanics and the mechanical structure of the universe, the members of the Royal Society created a novel experimental practice that superseded former modes of empirical inquiry, from Aristotelian observations to alchemical experimentation. This volume focuses on the development of empiricism as an interest in the body – as both the object of research and the subject of experience. Re-embodying empiricism shifts the focus of interest to the 'life sciences'; medicine, physiology, natural history. In fact, many of the active members of the Royal Society were physicians, and a significant number of those, disciples of William Harvey and through him, inheritors of the empirical anatomy practices developed in Padua during the 16th century. Indeed, the primary research interests of the early Royal Society were concentrated on the body, human and animal, and its functions much more than on mechanics. Similarly, the Académie des Sciences directly contradicted its self-imposed mandate to investigate Nature in mechanistic fashion, devoting a significant portion of its *Mémoires* to questions concerning life, reproduction and monsters, consulting empirical botanists, apothecaries and chemists, and keeping closer to experience than to the Cartesian standards of well-founded knowledge. These highlighted empirical studies of the body, were central in a workshop in the beginning of 2009 organized by the unit for History and Philosophy of Science in Sydney. The papers that were presented by some of the leading figures in this area are presented in this volume.

Preventing HIV Transmission

Research and innovation in the life sciences is driving rapid growth in agriculture, biomedical science, information science and computing, energy, and other sectors of the U.S. economy. This economic activity, conceptually referred to as the bioeconomy, presents many opportunities to create jobs, improve the quality of life, and continue to drive economic growth. While the United States has been a leader in advancements in the biological sciences, other countries are also actively investing in and expanding their capabilities in this area. Maintaining competitiveness in the bioeconomy is key to maintaining the economic health and security of the United States and other nations. Safeguarding the Bioeconomy evaluates preexisting and potential approaches for assessing the value of the bioeconomy and identifies intangible assets not sufficiently captured or that are missing from U.S. assessments. This study considers strategies for safeguarding and sustaining the economic activity driven by research and innovation in the life sciences. It also presents ideas for horizon scanning mechanisms to identify new technologies, markets, and data sources that have the potential to drive future development of the bioeconomy.

The Future of Nursing

René Descartes is best known as the man who coined the phrase “I think, therefore I am.” But though he is remembered most as a thinker, Descartes, the man, was no disembodied mind, theorizing at great remove from the worldly affairs and concerns of his time. Far from it. As a young nobleman, Descartes was a soldier and courtier who took part in some of the greatest events of his generation—a man who would not seem out of place in the pages of *The Three Musketeers*. In *The Young Descartes*, Harold J. Cook tells the story of a man who did not set out to become an author or philosopher—Descartes began publishing only after the age of forty. Rather, for years he traveled throughout Europe in diplomacy and at war. He was present at the opening events of the Thirty Years' War in Central Europe and Northern Italy, and was also later involved in struggles within France. Enduring exile, scandals, and courtly intrigue, on his journeys Descartes associated with many of the most innovative free thinkers and poets of his day, as well as great noblemen, noblewomen, and charismatic religious reformers. In his personal life, he expressed love for men as well as women and was accused of libertinism by his adversaries. These early years on the move, in touch with powerful people and great events, and his experiences with military engineering and philosophical materialism all shaped the thinker and philosopher Descartes became in exile, where he would begin to write and publish, with purpose. But though it is these writings that made ultimately made him famous, *The Young Descartes* shows that this story of his early life and the tumultuous times that molded him is sure to spark a reappraisal of his philosophy and legacy.

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