The Drug Book - Michael C. Gerald 2013
Covering everything from ancient herbs to cutting-edge chemicals, examines the most important moments in the development of pharmaceuticals and includes discussions of vaccines, homeopathic cures, and controversial treatments.

A is for Arsenic - Kathryn Harkup 2015-09-10
Shortlisted for the BMA Book Awards and Macavity Awards 2016 Fourteen novels. Fourteen poisons. Just because it’s fiction doesn’t mean it’s all made-up ... Agatha Christie revelled in the use of poison to kill off unfortunate victims in her books; indeed, she employed it more than any other murder method, with the poison itself often being a central part of the novel. Her choice of deadly substances was far from random – the characteristics of each often provide vital clues to the discovery of the murderer. With gunshots or stabbings the cause of death is obvious, but this is not the case with poisons. How is it that some compounds prove so deadly, and in such tiny amounts? Christie’s extensive chemical knowledge provides the backdrop for A is for Arsenic, in which Kathryn Harkup investigates the poisons used by the murderer in fourteen classic Agatha Christie mysteries. It looks at why certain chemicals kill, how they interact with the body, the cases that may have inspired Christie, and the feasibility of obtaining, administering and detecting these poisons, both at the time the novel was written and today. A is for Arsenic is a celebration of the use of science by the undisputed Queen of Crime.

Handbook of Arsenic Toxicology - Swaran Jeet Singh Flora 2014-12-26
Throughout history, arsenic has been used as an effective and lethal poison. Today, arsenic continues to present a real threat to human health all over the world, as it contaminates groundwater and food supplies. Handbook of Arsenic Toxicology presents the latest findings on arsenic, its chemistry, its sources and its acute and chronic effects on the environment and human health. The book takes readings systematically through the target organs, before detailing current preventative and counter measures. This reference enables readers to effectively assess the risks related to arsenic, and provide a comprehensive look at arsenic exposure, toxicity and toxicity prevention. Brings together current findings on the effects of arsenic on the environment and human health Includes state-of-the-art techniques in arsenic toxicokinetics, speciation and molecular mechanisms Provides all the information needed for effective risk assessment, prevention and countermeasure.

Arsenic and Adobo - Mia P. Manansala 2021 One of BuzzFeed's Highly Anticipated Mystery Novels of 2021! The first book in a new culinary cozy series full of sharp humor and delectable dishes—one that might just be killer.... When Lila Macapagal moves back home to recover from a horrible breakup, her life seems to be following all the typical rom-com tropes. She's tasked with...
saving her Tita Rosie's failing restaurant, and she has to deal with a group of matchmaking aunties who shower her with love and judgment. But when a notoriously nasty food critic (who happens to be her ex-boyfriend) drops dead moments after a confrontation with Lila, her life quickly swerves from a Nora Ephron romp to an Agatha Christie case. With the cops treating her like she's the one and only suspect, and the shady landlord looking to finally kick the Macapagal family out and resell the storefront, Lila's left with no choice but to conduct her own investigation. Armed with the nosy auntie network, her barista best bud, and her trusted Dachshund, Longanisa, Lila takes on this tasty, twisted case and soon finds her own neck on the chopping block...

Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc-Institute of Medicine 2002-07-19 This volume is the newest release in the authoritative series issued by the National Academy of Sciences on dietary reference intakes (DRIs). This series provides recommended intakes, such as Recommended Dietary Allowances (RDAs), for use in planning nutritionally adequate diets for individuals based on age and gender. In addition, a new reference intake, the Tolerable Upper Intake Level (UL), has also been established to assist an individual in knowing how much is “too much” of a nutrient. Based on the Institute of Medicine's review of the scientific literature regarding dietary micronutrients, recommendations have been formulated regarding vitamins A and K, iron, iodine, chromium, copper, manganese, molybdenum, zinc, and other potentially beneficial trace elements such as boron to determine the roles, if any, they play in health. The book also: Reviews selected components of food that may influence the bioavailability of these compounds. Develops estimates of dietary intake of these compounds that are compatible with good nutrition throughout the life span and that may decrease risk of chronic disease where data indicate they play a role. Determines Tolerable Upper Intake levels for each nutrient reviewed where adequate scientific data are available in specific population subgroups. Identifies research needed to improve knowledge of the role of these micronutrients in human health. This book will be important to professionals in nutrition research and education.

King of Poisons-John Parascandola 2012-10-31 For centuries, arsenic's image as a poison has been inextricably tied to images of foul play. In King of Poisons, John Parascandola examines the surprising history of this deadly element. From Gustave Flaubert to Dorothy Sayers, arsenic has long held a place in the literary realm as an instrument of murder and suicide. It was delightfully used as a source of comedy in the famous play Arsenic and Old Lace. But as Parascandola shows, arsenic has had a number of surprising real-world applications. It was frequently found in such common items as wallpaper, paint, cosmetics, and even candy, and its use in medical treatments was widespread. American ambassador Clare Boothe Luce suffered from exposure to arsenical paint in her study, and Napoleon's death has long been speculated to be the result of accidental or intentional poisoning. But arsenic poisoning is still a public menace. In the neighborhood surrounding American University in Washington, D.C., the army has undertaken a massive cleanup of artillery shells and bottles containing chemical warfare agents such as arsenical lewisite after a number of workmen and residents became ill. Arsenic contamination of the water supply in Bangladesh and in West Bengal, India, is a major public health problem today as well. From murder to crime fiction, from industrial toxin to chemical warfare, arsenic remains a powerful force in modern life.

Davis's Drug Guide for Rehabilitation Professionals-Charles D Ciccone 2013-03-21 A one-of-a-kind guide specifically for rehabilitation specialists! A leader in pharmacology and rehabilitation, Charles Ciccone, PT, PhD offers a concise, easy-to-access resource that delivers the drug information rehabilitation specialists need to know. Organized alphabetically by generic name, over 800 drug monographs offer the most up-to-date information on drug indications, therapeutic effects, potential adverse reactions, and much more! A list of implications for physical therapy at the end of each monograph helps you provide the best possible care for your patients. It’s the perfect companion to Pharmacology in Rehabilitation, 4th Edition!

Is Arsenic an Aphrodisiac?-William R Cullen
The book from arsenic to xanax: 250 milestones in the history of drugs

The high concentration of arsenic in kelp products is this harmful? "What about the 237,000 tonnes of arsenic trioxide stored in a mine in Canada? "How toxic is arsenic anyway, and how do you assess the risks of exposure? "How did Napoleon die? These and many other topics are addressed at a level that will result in understanding without delving into too much technical detail or requiring a degree in chemistry. Essential reading for everyone with a general interest in science, this illuminating text covers a broad range of topics.

The Biology Book-Michael C. Gerald

2015-01-06 Fresh, wholesome juices are perfect when you're fasting: they're low calorie, rich in vitamins and minerals, and energy boosting. These 100 recipes are specially designed for either a full or intermittent fast. Each tasty juice comes with a calorie count and nutritional information, and will fill you up so you don't feel deprived. Whether you're looking to detox or spur a sluggish metabolism, these juices will help you drink your way to health!

The Arsenic Century-James C. Whorton

2010-01-28 Arsenic is rightly infamous as the poison of choice for Victorian murderers. Yet the great majority of fatalities from arsenic in the nineteenth century came not from intentional poisoning, but from accident. Kept in many homes for the purpose of poisoning rats, the white powder was easily mistaken for sugar or flour and often incorporated into the family dinner. It was also widely present in green dyes, used to tint everything from candles and candies to curtains, wallpaper, and clothing (it was arsenic in old lace that was the danger). Whether at home amidst arsenical curtains and wallpapers, at work manufacturing these products, or at play swirling about the papered, curtained ballroom in arsenical gowns and gloves, no one was beyond the poison's reach. Whether you're looking to detox or spur a sluggish metabolism, these juices will help you drink your way to health!

2008-04-22 Sex, drugs, rocks, gold, murder, war, mass poisonings, the deaths of Napoleon, Tchaikovsky, Mozart, and others are all linked by one element - arsenic! Arsenic has been around since the beginning of time and the word has become a metaphor for poison with associated shock value. The general public are fearful of any possible exposure to it and yet it holds a certain dark and eerie fascination! The average person has only one idea about arsenic - it is poison - and this reputation has a sound base. Some arsenic compounds are very toxic and have been used with criminal intent from the time of the ancient Romans to the present day. Up until now, there has been no book that covers arsenic with such breadth. This book is a general appreciation of how much the element, arsenic, has become part of our lives in an entertaining style covering the years 1000 BC to the present day. The coverage of the chemistry, toxicology, and medicinal aspects is deliberately kept at a level for the general reader to understand. It covers the way in which this ubiquitous element and its compounds have influenced the lives of the people of the world. The author's objective in writing this book was not to elaborate on the vast chemistry of the element, but to try to reveal to the general reader how the element and its compounds have become embedded in our social fabric, for good and for ill. No other element comes close in this regard and he uses the word sociochemistry to describe this interface between society and chemistry. The book covers a broad range of topics including the use of arsenic in human medicine in many cultures from Chinese medicine to the beginning of chemotherapy. This peaked in the western world in the early 20th century, with Ehrlich's discovery of salvarsan, an arsenic-based cure for syphilis that gave rise to the field of chemotherapy. Salvarsan and related compounds were eventually displaced by antibiotics such as penicillin. Arsenic trioxide has staged a comeback, however, and is being used as a successful treatment for a form of leukemia. Other chapters cover arsenic compounds which were widely used in agriculture and wood preservation during the 20th century and their associated myths as well as arsenic compounds as chemical warfare agents and the resulting stockpile. The topic of arsenic in the environment is discussed in depth - arsenic is all around us - in our soil, our water, and our food, and our bodies have adapted to its presence and it does not usually pose a problem. However, the natural presence of high concentrations of arsenic in drinking water currently threatens the lives of millions of people in India, Bangladesh, Mexico and elsewhere. It also covers mining and pesticide manufacturing which can lead to high local arsenic concentrations in soils, slag heaps and mine tailings which, when located close to human activities, can produce human health risks. Other chapters cover a variety of topics including: "A proposed connection between arsenic and Cot Death (SIDS) which caused panic
during the literature of the time, The Arsenic Century paints
a vivid picture of its wide-ranging and insidious presence in Victorian daily life, weaving together the history of its emergence as a nearly inescapable household hazard with the sordid story of its frequent employment as a tool of murder and suicide. And ultimately, as the final chapter suggests, arsenic in Victorian Britain was very much the pilot episode for a series of environmental poisoning dramas that grew ever more common during the twentieth century and still has no end in sight.

**The Poison Eaters**-Gail Jarrow 2020-05-19
Formaldehyde, borax, salicylic acid. Today, these chemicals are used in embalming fluids, cleaning supplies, and acne medications. But in 1900, they were routinely added to food that Americans ate from cans and jars. In 1900, products often weren't safe because unregulated, unethical companies added these and other chemicals to trick consumers into buying spoiled food or harmful medicines. Chemist Harvey Washington Wiley recognized these dangers and began a relentless thirty-year campaign to ensure that consumers could purchase safe food and drugs, eventually leading to the creation of the U.S. Food and Drug Administration, or FDA, a US governmental organization that now has a key role in addressing the COVID-19/Coronavirus pandemic gripping the world today. Acclaimed nonfiction and Sibert Honor winning author Gail Jarrow uncovers this intriguing history in her trademark style that makes the past enthrallingly relevant for today's young readers. Six starred reviews -- ★Booklist ★BCCB ★Kirkus Reviews ★Publishers Weekly ★School Library Connection ★Shelf Awareness An ALSC Notable Children's Book * A Washington Post Best Children's Book ★ "Revolting and riveting in turns, Jarrow's masterfully crafted narrative will fundamentally alter how readers view their food. Though laced with toxins, this is anything but toxic." -- Kirkus Reviews, starred review

**Illegal Drugs**-Paul M. Gahlinger 2004 Furnishes an overview of the 178 drugs that are currently illegal in the United States, including information on their histories, chemical properties and effects, medical uses, recreational abuses, and associated health problems.

**The Poisoner's Handbook**-Deborah Blum 2011-01-25 Equal parts true crime, twentieth-century history, and science thriller, The Poisoner's Handbook is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie"—The New York Observer A fascinating Jazz Age tale of chemistry and detection, poison and murder, The Poisoner's Handbook is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's AMERICAN EXPERIENCE released a film based on The Poisoner's Handbook.

**The Age of Intoxication**-Benjamin Breen 2019-11-22 Eating the flesh of an Egyptian mummy prevents the plague. Distilled poppies reduce melancholy. A Turkish drink called coffee increases alertness. Tobacco cures cancer. Such beliefs circulated in the seventeenth and eighteenth centuries, an era when the term "drug" encompassed everything from herbs and spices—like nutmeg, cinnamon, and chamomile—to such deadly poisons as lead, mercury, and arsenic. In The Age of Intoxication, Benjamin Breen offers a window into a time when drugs were not yet separated into categories—illicit and licit, recreational and medicinal, modern and traditional—and there was no barrier between the drug dealer and the pharmacist. Focusing on the Portuguese colonies in Brazil and Angola and on the imperial capital of Lisbon, Breen examines the process by which novel drugs were located, commodified, and consumed. He then turns his attention to the British Empire, arguing that it owed much of its success in this period to its usurpation of the Portuguese drug networks. From the sickly sweet tobacco that helped finance the Atlantic slave trade to the cannabis that an East Indies merchant sold to the natural philosopher Robert Hooke in one of the earliest European
coffeehouses, Breen shows how drugs have been entangled with science and empire from the very beginning. Featuring numerous illuminating anecdotes and a cast of characters that includes merchants, slaves, shamans, prophets, inquisitors, and alchemists, The Age of Intoxication rethinks a history of drugs and the early drug trade that has too often been framed as opposites—between medicinal and recreational, legal and illegal, good and evil. Breen argues that, in order to guide drug policy toward a fairer and more informed course, we first need to understand who and what set the global drug trade in motion.

Healing with Poisons-Assistant Professor of History Yan Liu 2021-06-27 Open access edition: DOI 10.6069/9780295749013 At first glance, medicine and poison might seem to be opposites. But in China’s formative era of pharmacy (200?800 CE), poisons were strategically employed as healing agents to cure everything from abdominal pain to epidemic disease. Healing with Poisons explores the ways physicians, religious figures, court officials, and laypersons used toxic substances to both relieve acute illnesses and enhance life. It illustrates how the Chinese concept of du—a word carrying a core meaning of ?potency??led practitioners to devise a variety of methods to transform dangerous poisons into effective medicines. Recounting scandals and controversies involving poisons from the Era of Division to the Tang, historian Yan Liu considers how the concept of du was central to how the people of medieval China perceived both their bodies and the body politic. He also examines the wide range of toxic minerals, plants, and animal products used in classical Chinese pharmacy, including everything from the herb aconite to the popular recreational drug Five-Stone Powder. By recovering alternative modes of understanding wellness and the body’s interaction with foreign substances, this study cautions against arbitrary classifications and exemplifies the importance of paying attention to the technical, political, and cultural conditions in which substances become truly meaningful. Healing with Poisons is freely available in an open access edition thanks to TOME (Toward an Open Monograph Ecosystem) and the generous support of the University of Buffalo.

Bitten by Witch Fever-Lucinda Hawksley

2016-09-20 'As to the arsenic scare a greater folly it is hardly possible to imagine: the doctors were bitten as people were bitten by the witch fever.’ -- William Morris on toxic wallpapers, 1885. Bitten by Witch Fever presents facsimile samples of 275 of the most sumptuous wallpaper designs ever created by designers and printers of the age, including Christopher Dresser and Morris & Co. For the first time in their history, every one of the samples shown has been laboratory tested and found to contain arsenic. Interleaved with the wallpaper sections, evocative commentary guides you through the incredible story of the manufacture, uses and effects of arsenic, and presents the heated public debate surrounding the use of deadly pigments in the sublime wallpapers of a newly industrialized world.

Arsenic-Margarita Stoytcheva 2018-07-25 Arsenic - Analytical and Toxicological Studies is a collection of original works focused on arsenic occurrence and chemistry, methods for arsenic determination and removal and arsenic toxicity and health risks. The most commonly used techniques for arsenic quantification and speciation, such as atomic absorption spectrometry, inductively coupled plasma-mass spectrometry, and inductively coupled plasma-emission spectrometry, among others, and the various procedures applied for arsenic separation and removal are exhaustively described. The mechanism of arsenic-induced toxicology, involving arsenic interaction with critical thiols in proteins and the health risks associated with exposure to arsenic, is also discussed.

Quackery-Lydia Kang 2017-10-17 What won’t we try in our quest for perfect health, beauty, and the fountain of youth? Well, just imagine a time when doctors prescribed morphine for crying infants. When liquefied gold was touted as immortality in a glass. And when strychnine—yes, that strychnine, the one used in rat poison—was dosed like Viagra. Looking back with fascination, horror, and not a little dash of dark, knowing humor, Quackery recounts the lively, at times unbelievable, history of medical misfires and malpractices. Ranging from the merely weird to the outright dangerous, here are dozens of outlandish, morbidly hilarious “treatments”—conceived by doctors and scientists, by spiritualists and snake oil salesmen (yes, they literally tried to sell snake oil)—that
were predicated on a range of cluelessness, trial and error, and straight-up scams. With vintage illustrations, photographs, and advertisements throughout, Quackery seamlessly combines macabre humor with science and storytelling to reveal an important and disturbing side of the ever-evolving field of medicine.

**Metal-based Anticancer Agents** - Angela Casini
2019-04-23 Metal-based anticancer drugs are among the most successful therapeutic agents, as evidenced by the frequent prescription of selected platinum and arsenic compounds to patients. Metal-based Anticancer Agents covers the interdisciplinary world of inorganic drug discovery and development by introducing the most prominent compound classes based on different transition metals, discussing emerging concepts and enabling methods, as well as presenting key pre-clinical and clinical aspects. Recent progress on the unique features of next-generation targeted metal-based anticancer agents, including supramolecular coordination complexes used for both therapy and drug delivery, promise a bright future beyond the benefits of pure cytotoxic activity. With contributions from global leaders in the field, this book will serve as a useful reference to established researchers as well as a practical guide to those new to metallodrugs, and postgraduate students of medicinal chemistry and metallobiology.

**Arsenic in Drinking Water** - National Research Council
1999-06-14 The U.S. Environmental Protection Agency (EPA) has been considering a more stringent regulation of arsenic in water. A significant reduction in the maximum contaminant level (MCL) could increase compliance costs for water utilities. This book discusses the adequacy of the current EPA MCL for protecting human health in the context of stated EPA policy and provides an unbiased scientific basis for deriving the arsenic standard for drinking water and surface water. Arsenic in Drinking Water evaluates epidemiological data on the carcinogenic and noncarcinogenic health effects of arsenic exposure of Taiwanese populations and compares those effects with the effects of arsenic exposure demonstrated in other countries—including the United States. The book also reviews data on toxicokinetics, metabolism, and mechanism and mode of action of arsenic to ascertain how these data could assist in assessing human health risks from arsenic exposures. This volume recommends specific changes to improve the toxicity analyses and risk characterization. The implications of the changes for EPA’s current MCL for arsenic are also described.

**The Poisonous Pen of Agatha Christie** - Michael C. Gerald
2011-02-15 Poisoning occurs in over half of Agatha Christie’s many novels and stories. In fact, she used a larger number and broader selection of poisons and medicines, for a wider variety of purposes, with greater frequency, ingenuity, and scientific accuracy than any other detective fiction writer. Yet very little has been written on the use of drugs, poisons, and chemicals in Christie’s fiction. The Poisonous Pen of Agatha Christie entertainingly and authoritatively fills this gap. Michael Gerald explores the use of poisons and drugs in Christie’s fiction not only to commit murder and suicide but also to incapacitate a victim, alter behavior, treat disease, or support addiction. He also analyzes her views, as expressed in her fiction and autobiography, on drug addiction, the health professions, the value of medicines, and scientific discoveries. Especially valuable is Gerald’s exhaustive listing of all drugs, poisons, and chemicals mentioned in Christie’s novels and stories, with references to the work(s) in which each appears and the ways in which each is used. Other tables list all the novels and short stories and the chemicals that are used in each. Throughout, the properties of all drugs are clearly explained so that the reader needs no special scientific or medical knowledge. The Poisonous Pen of Agatha Christie illuminates the fictional uses Christie made of her real-life experiences as a hospital drug dispenser and as a provider of nursing care. It will be of interest to fans and scholars alike.

**The House of the Scorpion** - Nancy Farmer
2013-08-01 Matt is six years old when he discovers that he is different from other children and other people. To most, Matt isn’t considered a boy at all, but a beast, dirty and disgusting. But to El Patron, lord of a country called Opium, Matt is the guarantee of eternal life. El Patron loves Matt as he loves himself — for Matt is himself. They share the exact same DNA. As Matt struggles to understand his existence and what that existence truly means, he is threatened by a host of sinister and manipulating characters,
from El Patron’s power-hungry family to the brain-deadened eejits and mindless slaves that toil Opium’s poppy fields. Surrounded by a dangerous army of bodyguards, escape is the only chance Matt has to survive. But even escape is no guarantee of freedom... because Matt is marked by his difference in ways that he doesn’t even suspect.

Metallotherapeutic Drugs and Metal-Based Diagnostic Agents - Marcel Gielen 2005-09-01
There are an astonishing number and variety of roles that metals play in contemporary medicine. This book contains information on the medicinal uses of inorganics, that is, of elements such as boron, lithium, selenium, to name a few, as well as metal-containing species. In keeping with the notion that healthy mammals rely on (bio-essential) metals for the normal functioning of approximately a third of their proteins and enzymes, a large number of drugs are metal-based and considerable effort is being devoted to developing both second- and third-generation drugs as well as generating novel metal-based drugs. While there is no doubt that there is an emphasis on ‘Metallotherapeutics’ throughout the volume, the use of metals in medicine is not restricted to metal-based drugs. The following are also covered: non-invasive radiopharmaceuticals Magnetic Resonance Imaging (MRI) mineral supplements From the foregoing and, more importantly, from the contents of the various Chapters, the reader will gain an appreciation of the very real role metal-based drugs play in modern medicine and of the considerable effort being devoted to the development of novel complexes with greater efficacy as therapeutic and diagnostic agents.

The Poison Squad - Deborah Blum 2019-09-24
Dr. Harvey Washington Wiley set out to ensure food safety. The tasters were recognized for their courage, and became known as the poison squad.

Poison Panic - Helen Barrell 2016-08-31
True crime that “will appeal to readers interested in gaining an insight into the lives of women accused of murder in the mid 19th century” (Essex Family Historian). For a few years in the 1840s, Essex was notorious in the minds of Victorians as a place where women stalked the winding country lanes looking for their next victim to poison with arsenic. Though that terrible image may not have much basis in truth, it was a symptom of an anxiety-filled time... The 1840s were also known as the “hungry ’40s,” when crop failures pushed up food prices and there was popular unrest across Europe. The decade culminated in a cholera epidemic in which tens of thousands of people in the British Isles died. It is perhaps no surprise that people living through that troubled decade were captivated by the stories of the “poisoners”: that death was down to “white powder” and the evil intentions of the human heart. Sarah Chesham, Mary May, and Hannah Southgate are the protagonists of this tale of how rural Essex, in a country saturated with arsenic, was touched by the tumultuous 1840s. “Barrell’s meticulous research and eye for detail recreate lurking threats, and these scandalous true stories are as compelling as any crime fiction.” —History of War “An intriguing read that brings a forgotten history to light and reveals past attitudes to women—and a national fear that gripped Victorian Britain.” —Family Tree Magazine “This book will fascinate not only historians of true crime and those with an interest in genealogy but any reader seeking a story that would make Agatha Christie proud.” —All About History

The Anarchist Cookbook - William Powell 2018-03-11
The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when “Turn on, Burn down, Blow up” are revolutionary slogans of the day. Says the author “This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don’t need this book. They already know everything that’s in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There is detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

Poisoning in the Modern World - Ozgur Karcigolu 2019-06-19
Over 400 years ago, Swiss alchemist and physician Paracelsus (1493-1541)
cited: "All substances are poisons; there is none that is not a poison. The right dose differentiates a poison from a remedy." This is often condensed to: "The dose makes the poison." So, why are we overtly anxious about intoxications? In fact, poisons became a global problem with the industrial revolution. Pesticides, asbestos, occupational chemicals, air pollution, and heavy metal toxicity maintain high priority worldwide, especially in developing countries. Children between 0 and 5 years old are the most vulnerable to both acute and chronic poisonings, while older adults suffer from the chronic effects of chemicals. This book aims to raise awareness about the challenges of poisons, to help clinicians understand current issues in toxicology.

Environmental Medicine-Institute of Medicine 1995-05-28 People are increasingly concerned about potential environmental health hazards and often ask their physicians questions such as: "Is the tap water safe to drink?" "Is it safe to live near power lines?" Unfortunately, physicians often lack the information and training related to environmental health risks needed to answer such questions. This book discusses six competency based learning objectives for all medical school students, discusses the relevance of environmental health to specific courses and clerkships, and demonstrates how to integrate environmental health into the curriculum through published case studies, some of which are included in one of the book’s three appendices. Also included is a guide on where to obtain additional information for treatment, referral, and follow-up for diseases with possible environmental and/or occupational origins.

Arsenic-Charles O. Abernathy 2012-12-06 The Society of Environmental Geochemistry and Health (SEGH) Second International Conference on Arsenic Exposure and Health Effects was held June 12-14, 1995 in San Diego, California. The conference was attended by 152 people who heard 41 presentations on all aspects of arsenic research. The speakers represented 14 countries. Approximately 40 of the participants and speakers were from countries other than the US. The participants represented government, academia, industry and the interested public. The sponsorship of the conference was a good indication of the wide spread interest in the subject and the meeting. The sponsors, in addition to SEGH, were the US Environmental Protection Agency (US EPA), the Agency for Toxic Substances and Disease Registry (ATSDR), the Atlantic Richfield Company (ARCO), the Electric Power Research Institute (EPRI), the American Water Works Association Research Foundation (AWWARF), Kennecott Corporation, the American Smelting and Refining Company (ASARCO), and the International Council on Metals in the Environment (ICME). The funding was split approximately equally between industry (including industrial organizations such as EPRI) and government. In addition to the many fine presentations, the meeting provided a forum for scientists from different countries to compare experiences and share information. It also provided a forum for the discussion of both scientific and policy issues between representatives of various governmental bodies (at the local, state, and federal level) and representatives of various industrial organizations. These discussions occurred both in the formal meetings and informal settings during the meeting.

Blitzed-Norman Ohler 2017-03-07 New York Times Bestseller “[A] fascinating, engrossing, often dark history of drug use in the Third Reich.” — Washington Post The Nazi regime preached an ideology of physical, mental, and moral purity. Yet as Norman Ohler reveals in this gripping new history, the Third Reich was saturated with drugs: cocaine, opiates, and, most of all, methamphetamines, which were consumed by everyone from factory workers to housewives to German soldiers. In fact, troops were encouraged, and in some cases ordered, to take rations of a form of crystal meth—the elevated energy and feelings of invincibility associated with the high even helped to account for the breakneck invasion that sealed the fall of France in 1940, as well as other German military victories. Hitler himself became increasingly dependent on injections of a cocktail of drugs—ultimately including Eukodal, a cousin of heroin—administered by his personal doctor. Thoroughly researched and rivetingly readable, Blitzed throws light on a history that, until now, has remained in the shadows. “Delightfully nuts.” — The New Yorker NORMAN OHLER is an award-winning German novelist, screenwriter, and journalist. He is the author of the novels Die Quotenmaschine (the world’s first hypertext novel), Mitte, and Stadt des Goldes (translated into English as Ponte City). He was cowriter of the script for Wim Wenders’s film Palermo.
Shooting. He lives in Berlin.

The Chemistry Book - Derek B. Lowe 2016-01-05
From atoms and fluorescent pigments to sulfa drug synthesis and buckyballs, this lush and authoritative chronology presents 250 milestones in the world of chemistry. As the "central science" that bridges biology and physics, chemistry plays an important role in countless medical and technological advances. Covering entertaining stories and unexpected applications, chemist and journalist Derek B. Lowe traces the most important—and surprising—chemical discoveries.

Role of Nutraceuticals in Cancer Chemosensitization - 2017-10-18 Role of Nutraceuticals in Chemoresistance to Cancer, Volume Two, focuses on nutraceuticals, the compounds derived from natural sources, which are usually multi-targeted as a means to overcome chemoresistance. This book discusses the role of several compounds related to nutraceuticals and chemoresistance, such as curcumin, resveratrol, indole 3-carbinol, tocotrienols, ursolic acid, fisetin, celastrol, gambogic, butein, catechins and silymarin. It is a valuable resource for cancer researchers, oncologists and members of several areas of the biomedical field who are interested in understanding how to use nutraceuticals as a sensitizing agent for chemotherapy. Brings updated information on natural compounds used as specific inhibitors of cell signaling pathways as reviewed by experts in the field. Presents experts analysis and summary of reported and novel findings and potential translational application in cancer patients. Describes molecular mechanisms with new and helpful approaches for the readers to use in their own investigations.

The Medical Book - Clifford A. Pickover 2012
Chronologically documents two hundred and fifty medical milestones from 10,000 B.C. to modern times, including the history of separating conjoined twins, the discovery of viruses, and the Human Genome Project.

Forensic Analysis - B Suresh Shetty 2016-09-07
It is my pleasure to place before you the book "Forensic Analysis - From Death to Justice" which presents one of the major portions of the broad specialty of Forensic Science comprising mainly of Thanatology and Criminalistics. This book has been designed to incorporate a wide range of new ideas and unique works from all authors from topics like Forensic Engineering, Forensic Entomology and Crime Scene Investigation. I hope that it will be useful to practitioners of forensic medicine, experts, pathologists, law makers, investigating authorities, undergraduate and postgraduate medical school graduates of medicine.

Arsenic & Rice - Andrew A. Meharg 2012-03-01
Rice is the staple food for half of the world’s population. Consumption of rice is the major exposure route globally to the class one, non-threshold carcinogen inorganic arsenic. This book explains the sources of arsenic to paddy soils and the biogeochemical processes and plant physiological attributes of paddy soil-rice ecosystems that lead to high concentrations of arsenic in rice grain. It presents the global pattern of arsenic concentration and speciation in rice, discusses human exposures to inorganic arsenic from rice and the resulting health risks. It also highlights particular populations that have the highest rice consumptions, which include Southern and South East Asians, weaning babies, gluten intolerance sufferers and those consuming rice milk. The book also presents the information of arsenic concentration and speciation in other major crops and outlines approaches for lowering arsenic in rice grain and in the human diet through agronomic management.

Critical Aspects of EPA’s IRIS Assessment of Inorganic Arsenic - National Research Council 2013-11-20
The US Environmental Protection Agency (EPA) Integrated Risk Information System (IRIS) program develops toxicologic assessments of environmental contaminants. IRIS assessments provide hazard identification and dose-response assessment information. The information is then used in conjunction with exposure information to characterize risks to public health and may be used in risk-based decisionmaking, in regulatory actions, and for other risk-management purposes. Since the middle 1990s, EPA has been in the process of updating the IRIS assessment of inorganic arsenic. In response to a congressional mandate for an independent review of the IRIS assessment of inorganic arsenic, EPA requested that the
National Research Council convene a committee to conduct a two-phase study. Critical Aspects of EPA's IRIS Assessment of Inorganic Arsenic is the report of the first phase of that study. This report evaluates critical scientific issues in assessing cancer and noncancer effects of oral exposure to inorganic arsenic and offers recommendations on how the issues could be addressed in EPA's IRIS assessment.

Current Understanding of Apoptosis-Yusuf Tutar 2018-08-29 Apoptosis is an essential biochemical process in cell turnover, development, and chemical-induced cell death. Current knowledge and ongoing research of apoptosis highlight our understanding in designing the therapeutic approaches for several diseases. This book covers four main sections: "Apoptosis and Necrosis," "Apoptosis Inducers," "Proteasome and Signaling Pathways in Apoptosis," and "Radiation-Based Apoptosis." The first section implicitly describes the differences between apoptosis and necrosis processes. The following section elaborates the small molecule-induced apoptosis. Then, the third section deals with proteasome and signaling pathways and finally, resistance to chemotherapy and electromagnetic radiation is covered in the last section. Overall, the book deals with pathways for manipulating apoptosis and provides a unique perspective to the scientists.

The Arsenic Eaters-Rob van Hoesel 2018-07-24 This book investigates the widespread historical belief that the consumption of arsenic, generally known to be a deadly poison, is beneficial to one's health. Accordingly, many "poison eaters" were found among the Austrian rural population in the nineteenth century. What they were ingesting was white (arsenic trioxide) or yellow arsenic (arsenic trisulfide). It was produced by roasting arsenic-containing minerals. Arsenic eaters were robust persons, and usually of the lower class of society, wood cutters, charcoal burners, stablemen, foresters, etc. They ingested arsenic to be 'strong and healthy': to look rosy, to resist fatigue or to strengthen their physique: "See how strong and fresh I am, and what an advantage I have over you all! In times of epidemic fever or cholera, what a fright you are in, while I feel sure of never taking infection." Though being a popular custom among hard working people, arsenic eaters were very anxious to conceal the fact, particularly from medical men and priests. It was also believed that once a person became an arsenic eater, he can never stop the habit. To do so would bring rapid decline in health, leading inevitably to death.

Fish and Fishery Products-Barry Leonard 2011-08 This guidance will assist processors of fish and fishery products in the development of their Hazard Analysis Critical Control Point (HACCP) plans. Processors of fish and fishery products will find info. that will help them identify hazards that are associated with their products, and help them formulate control strategies. It will help consumers understand commercial seafood safety in terms of hazards and their controls. It does not specifically address safe handling practices by consumers or by retail estab., although the concepts contained in this guidance are applicable to both. This guidance will serve as a tool to be used by fed. and state regulatory officials in the evaluation of HACCP plans for fish and fishery products.
