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Chemistry at Home

How can a plant as beautiful as the foxglove be so deadly and yet for more than a century be used to treat heart disease? The same is true of other naturally occurring molecules as will be revealed in this current book by award-winning author and chemist, John Emsley. More Molecules of Murder follows on from his highly-acclaimed earlier book Molecules of Murder, and again it deals with 14 potential poisons; seven of which are man-made and seven of which are natural. It investigates the crimes committed with them, not from the point of view of the murderers, their victims, or the detectives, but from the poison used. In so doing it throws new light on how these crimes were carried out and ultimately how the

perpetrators were uncovered and brought to justice. Each chapter starts by looking at the target molecule itself, its discovery, its chemistry, its often-surprising use in medicine, its effects on the human body, and its toxicology. The rest of the chapter is devoted to murders and attempted murders in which it has been used. But, be reassured that murder by poison is not the threat it once was, thanks to laws which restrict access to such materials and to the skills of analytical chemists in detecting their presence in incredibly tiny amounts.

Beating the Devil's Game

The incredible "glowing" history of the "Devil's element" phosphorus Discovered by alchemists, prescribed by apothecaries, exploited by ninth-century industrialists, and abused by twentieth-century combatants, the chemical element phosphorus has fascinated us for more than three centuries. It may even be the cause of will-o'-the-wisps and spontaneous human combustion! Now John Emsley has written an enthralling account of this eerily luminescent element. Shining with wonderful nuggets-from murders-by-phosphorus to a match factory strike; from the firebombing of Hamburg to the deadly compounds derived from phosphorus today-The 13th Element weaves together a rich tableau of brilliant and oddball characters, social upheavals, and bizarre events.

Mendeleyev's Dream

“A blistering plot and crisp writing make *The Night Swim* an unputdownable read.” –Sarah Pekkanen, bestselling author of *The Wife Between Us* In *The Night Swim*, a new thriller from Megan Goldin, author of the “gripping and unforgettable” (Harlan Coben) *The Escape Room*, a true crime podcast host covering a controversial trial finds herself drawn deep into a small town’s dark

past and a brutal crime that took place there years before. Ever since her true-crime podcast became an overnight sensation and set an innocent man free, Rachel Krall has become a household name—and the last hope for people seeking justice. But she’s used to being recognized for her voice, not her face. Which makes it all the more unsettling when she finds a note on her car windshield, addressed to her, begging for help. The new season of Rachel's podcast has brought her to a small town being torn apart by a devastating rape trial. A local golden boy, a swimmer destined for Olympic greatness, has been accused of raping the beloved granddaughter of the police chief. Under pressure to make Season 3 a success, Rachel throws herself into her investigation—but the mysterious letters keep coming. Someone is following her, and she won't stop until Rachel finds out what happened to her sister twenty-five years ago. Officially, Jenny Stills tragically drowned, but the letters insist she was murdered—and when Rachel starts asking questions, nobody in town wants to answer. The past and present start to collide as Rachel uncovers startling connections between the two cases—and a revelation that will change the course of the trial and the lives of everyone involved. Electrifying and propulsive, *The Night Swim* asks: What is the price of a reputation? Can a small town ever right the wrongs of its past? And what really happened to Jenny?

Once We Were Sisters

This book describes the essential aspects of enantioselective catalysis in a clear, logical fashion, with chapters organized by concept rather than by reaction type. Each concept in *Fundamentals of Asymmetric Catalysis* is supported by carefully selected examples of a wide range of catalysts, reactions and reaction mechanisms.

More Molecules of Murder

Molecules of Murder is about infamous murderers and famous victims; about people like Harold Shipman, Alexander Litvinenko, Adelaide Bartlett, and Georgi Markov. Few books on poisons analyse these crimes from the viewpoint of the poison itself, doing so throws a new light on how the murders or attempted murders were carried out and ultimately how the perpetrators were uncovered and brought to justice. Part I includes molecules which occur naturally and were originally used by doctors before becoming notorious as murder weapons. Part II deals with unnatural molecules, mainly man-made, and they too have been dangerously misused in famous crimes. The book ends with the most famous poisoning case in recent years, that of Alexander Litvinenko and his death from polonium chloride. The first half of each chapter starts by looking at the target molecule itself, its discovery, its history, its chemistry, its use in medicine, its toxicology, and its effects on the human body. The second half then investigates a famous murder case and reveals the modus operandi of the poisoner and how some were caught, some are still at large, and some literally got away with murder. Molecules of Murder will explain how forensic chemists have developed cunning ways to detect minute traces of dangerous substances, and explain why some of these poisons, which appear so life-threatening, are now being researched as possible life-savers. Award winning science writer John Emsley has assembled another group of true crime and chemistry stories to rival those of his highly acclaimed Elements of Murder.

Pointing from the Grave

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.

Molecules at an Exhibition

Winner of the PEN/Hemingway Award A Washington Post Notable Book One of the Best Books of the Year: NPR, Entertainment Weekly, Ann Patchett on PBS NewsHour, Minnesota Public Radio, PopSugar, Maris Kreizman, The Morning News Winner of Ploughshares' John C. Zacharis Award Winner of a Whiting Award A Belletrist Amuse Book At first glance, the quirky, overworked narrator of Weike Wang's debut novel seems to be on the cusp of a perfect life: she is studying for a prestigious PhD in chemistry that will make her Chinese parents proud (or at least satisfied), and her successful, supportive boyfriend has just proposed to her. But instead of feeling hopeful, she is wracked with ambivalence: the long, demanding hours at the lab have created an exquisite pressure cooker, and she doesn't know how to answer the marriage question. When it all becomes too much and her life plan veers off course, she finds herself on a new path of discoveries about everything she thought she knew. Smart, moving, and always funny, this unique coming-of-age story is certain to evoke a winning reaction.

Nature's Building Blocks

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 Billion-Dollar Molecule

Ever wondered what a superhero eats for breakfast? Do they need a special diet to feed their superpowers? The odd metabolisms of superheroes must mean they have strange dietary needs, from the high calorie diets to fuel flaming bodies and super speeds, to not so obvious requirements for vitamins and minerals. The Secret Science of Superheroes looks at the underpinning chemistry, physics and biology needed for their superpowers. Individual chapters look at synthesising elements on demand, genetic evolution and what superhero suits could be made of. By exploring these topics, the book introduces a wide range of scientific concepts, from protein chemistry to particle physics for a general scientifically interested audience. With contributions from leading science communicators the book hopes to answer some of these important questions rather than debunk or pick holes in the science of superheroes.

Encyclopedia of Forensic and Legal Medicine

How can a plant as beautiful as the foxglove be so deadly and yet for more than a century be used to treat heart disease? The same is

true of other naturally occurring molecules as will be revealed in these three books which examine poisons, both natural and man-made, and the crimes committed with them, not from the point of view of the murderers, their victims, or the detectives, but from the poison used. *Molecules of Murder: Criminal Molecules and Classic Cases*, *More Molecules of Murder* and *Poisons and Poisonings: Death by Stealth* throw new light on how these crimes were carried out, how the perpetrators were uncovered and brought to justice and information about how forensic analysis is conducted. Appealing to scientists and non-scientists alike, these enthralling books will entertain and educate and bring the reader up to date with how important chemical analysis is in crime detection.

Vilnius Poker

How can a chemical we need on a daily basis to keep us healthy be fatal at a different dose? Why should elements that are intrinsically dangerous be used in medicine? How did poisoners use the chemical properties of chemicals to cover their tracks? Emsley gives detailed histories of five of the most toxic elements - arsenic, antimony, lead, mercury, and thallium, highlighting some of the most famous murders and how the murderers used the chemical properties of elements to hide what they were doing. He shows how the elements have been behind many modern day environmental catastrophes including accidental mass poisonings from lead and arsenic, and the Minamata Bay Disaster in Japan. The array of fascinating stories shows how chemicals have impacted the lives of people ranging from the Greeks and Romans to Newton, Napoleon, Lucrezia Borgia, Mozart, Nelson Mandela, and Saddam Hussein. Emsley also touches on subjects close to home: cot deaths, laxatives, venereal disease, alleged cures for acne, hangovers, and insanity.

Strange Chemistry

A thorough understanding of cellular and molecular mechanisms involved in the individual expression of toxic effects provides an important tool for assessment of human health risk. New aspects, major advances, and new areas in molecular and cellular biology and toxicology demand updated sources of information to elucidate the functional mechanics of human toxicology. Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition retains the accessible format of the original to present the general principles that link xenobiotic-induced toxicity with the molecular pathways that underlie these toxic effects. Extensively illustrated, this book forms a conceptual bridge between multiple events at the molecular level and the determinants of toxicity at the physiological and cellular level. Specific examples of drugs, environmental pollutants, and other chemicals are carefully chosen to illustrate and highlight the fundamental mechanisms of toxicity at different toxicokinetic and toxicodynamic levels. The book includes references and review articles at the end of each chapter, as well as boxed text for relevant review information on biological, biochemical, molecular, and toxicological background. Linking molecular pathways to more general biomedical contexts, the author ensures that the reader is not lost in the details and instead receives a broad understanding of the processes underlying xenobiotic toxicity. New in the Second Edition Updated chapters Types of toxic responses Disruption of signal transduction by xenobiotics Disruption of mitochondrial function Novel mechanisms derived from systems toxicology

The Story of CO₂

In 1869 Russian scientist Dmitri Mendeleev was puzzling over a way to bring order to the fledgling science of chemistry. Wearied by

the effort, he fell asleep at his desk. What he dreamed would fundamentally change the way we see the world. Framing this history is the life story of the nineteenth-century Russian scientist Dmitri Mendeleev, who fell asleep at his desk and awoke after conceiving the periodic table in a dream—the template upon which modern chemistry is founded and the formulation of which marked chemistry's coming of age as a science. From ancient philosophy through medieval alchemy to the splitting of the atom, this is the true story of the birth of chemistry and the role of one man's dream. In this elegant, erudite, and entertaining book, Paul Strathern unravels the quixotic history of chemistry through the quest for the elements.

Eyes Wide Open

Jason Reynolds's Newbery Honor, Printz Honor, and Coretta Scott King Honor-winning, #1 New York Times bestselling novel *Long Way Down* is now a gripping, galvanizing graphic novel, with haunting artwork by Danica Novgorodoff. Will's older brother, Shawn, has been shot. Dead. Will feels a sadness so great, he can't explain it. But in his neighborhood, there are THE RULES: No. 1: Crying. Don't. No matter what. No. 2: Snitching Don't. No matter what. No. 3: Revenge Do. No matter what. But bullets miss. You can get the wrong guy. And there's always someone else who knows to follow the rules...

Fundamentals of Asymmetric Catalysis

Poisons, due to their lethal nature, invoke a sense of fear in humans. Yet, they have also impacted other aspects of human life. Poisons have been used by nomadic hunters to kill their prey, by scientists to explore complex biochemical mechanisms of the body, by physicians to lower cholesterol and to kill cancer cells, by farmers

and the general public to destroy pests, by the evil minded for homicide, and by tyrants as weapons of war. The Art and Science of Poisons presents two facets of poisons: the science behind them and their place in history and art. The science of poisons describes their biochemistry and how they kill. The science story voyages into the sub-microscopic world of atoms, molecules, and cells. Only there can we see the true miracles and mysteries of life and death. Chapters in the book explore poisons from snakes, spiders, scorpions, sea creatures, as well as poisons made by humans in the laboratory, and those which are derived from beautiful plants. The art of poisons, on the other hand, encompasses everything else about these agents that conjures up the image of the skull and crossbones. This side of the story explores the legends and tales of intrigue and surreptitious deaths of well-known personalities such as Socrates, Cleopatra, Hitler, and many more. General readers with a curiosity about science and an interest in history and human nature will enjoy both facets presented in this brief, yet varied exploration into the world of poisons.

Secret Science of Superheroes

From cooking to medicine, from engineering to art, chemistry—the science of molecules—is everywhere. A celebration of the molecules of chemistry, *Every Molecule Tells a Story* celebrates the molecules responsible for the experiences of everyday life: the air we breathe; the water we drink; the chemicals that fuel our living; the steroids that give us sex; the colours of the seasons; the drugs that heal us; and the scented molecules that enrich our diet and our encounters with each other. You can't see them, but you know that they are there. Unveiling the structures of poisonous "natural" substances and beneficial man-made molecules, this book brushes away any preconceived notions about chemistry to demonstrate why and how molecules matter.

Murder and Mendelssohn

A summary of today's environmental challenges also counsels teens on how to decode conflicting information, explaining the role of vested interests while identifying the sources behind different opinions and sharing suggested online resources to help teens make informed consumer choices. Simultaneous.

The Rhubarb Connection and Other Revelations

From the bestselling, Booker Prize-winning author of *The White Tiger* and *Amnesty*, a “ferociously brilliant” (Slate) novel about two brothers coming of age in a Mumbai slum, raised by their crazy, obsessive father to be cricket champions. *A NETFLIX ORIGINAL SERIES * AN NPR BEST BOOK OF THE YEAR * A NEW YORK TIMES and WASHINGTON POST NOTABLE BOOK Manjunath Kumar is fourteen and living in a slum in Mumbai. He knows he is good at cricket—if not as good as his older brother, Radha. He knows that he fears and resents his domineering and cricket-obsessed father, admires his brilliantly talented sibling, and is fascinated by curious scientific facts and the world of CSI. But there are many things, about himself and about the world, that he doesn’t know. Sometimes it even seems as though everyone has a clear idea of who Manju should be, except Manju himself. When Manju meets Radha’s great rival, a mysterious Muslim boy privileged and confident in all the ways Manju is not, everything in Manju’s world begins to change, and he is faced by decisions that will challenge his sense of self and of the world around him. Filled with unforgettable characters from across India’s social strata—the old scout everyone calls Tommy Sir; Anand Mehta, the big-dreaming investor; Sofia, a wealthy, beautiful girl and the boys’ biggest fan—*Selection Day* “brings a family, a city, and an entire country to scabrous and antic life” (Chicago Tribune).

Molecules of Murder Set

This book opens the audience's eyes to the extraordinary scientific secrets hiding in everyday objects. Helping readers increase chemistry knowledge in a fun and entertaining way, the book is perfect as a supplementary textbook or gift to curious professionals and novices. • Appeals to a modern audience of science lovers by discussing multiple examples of chemistry in everyday life • Addresses compounds that affect everyone in one way or another: poisons, pharmaceuticals, foods, and illicit drugs; thereby evoking a powerful emotional response which increases interest in the topic at hand • Focuses on edgy types of stories that chemists generally tend to avoid so as not to paint chemistry in a bad light; however, these are the stories that people find interesting • Provides detailed and sophisticated stories that increase the reader's fundamental scientific knowledge • Discusses complex topics in an engaging and accessible manner, providing the "how" and "why" that takes readers deeper into the stories

The Night Swim

Discusses interesting chemicals, such as the smelliest, most lethal, and most versatile, in a non-technical style that covers each chemical's importance without using formulas, equations, or diagrams

Stiff: The Curious Lives of Human Cadavers

Today, the basic precepts of criminal investigation—fingerprints, DNA, blood evidence—are known among professionals and lay people alike. But behind each of these familiar concepts is a fascinating story of the evolution of science and law, spearheaded by innovative thinkers, many of whom risked their careers for more

perfect justice. Dr. Katherine Ramsland, renowned expert in criminology, traces that development from thirteenth-century Chinese studies of decomposition through the Renaissance and the era of Newtonian physics to the marvels of the present day and beyond. Along the way, she introduces us to forensic pioneers and visionaries who galvanized the field, raised investigative standards, and whose efforts have kept us just steps ahead of increasingly sophisticated criminals.

Accounting for Murder

A true scientific and legal thriller with a perfect twist. In April 1984, a young British DNA scientist was sexually assaulted in her San Francisco cottage. A year later, and hundreds of miles away, she was brutally murdered. The alleged rapist, an American financial analyst, was the only suspect. Police and forensic experts, however, failed to link him to the crime; the case was filed unsolved. Fifteen years later, a detective reopens the case, and using the newest DNA techniques, she finds a vital clue

The Art and Science of Poisons

The evil in East Salem is no longer content to hide in the shadows. The stakes—and the darkness—are rising. Dani Harris thought there wasn't much left that could surprise her after serving as a forensic psychiatrist in East Salem. And Tommy Gunderson has faced few challenges in his life that he couldn't overcome by either physical strength or his celebrity status. But as they race to uncover what's really happening behind the high walls of St. Adrian's Academy, it becomes clear that supernatural forces have been at work here for generations. And now their focus is on making sure Dani and Tommy don't interfere. When the unseen becomes seen, faith is the only weapon strong enough to fight in a battle involving not just

murder and betrayal—but angels and demons. “Wiehl’s latest is a truly creepy story with supernatural undertones that seem eerily real.” -Romantic Times review of *Waking Hours*

Selection Day

Encyclopedia of Forensic and Legal Medicine, Volumes 1-4, Second Edition is a pioneering four volume encyclopedia compiled by an international team of forensic specialists who explore the relationship between law, medicine, and science in the study of forensics. This important work includes over three hundred state-of-the-art chapters, with articles covering crime-solving techniques such as autopsies, ballistics, fingerprinting, hair and fiber analysis, and the sophisticated procedures associated with terrorism investigations, forensic chemistry, DNA, and immunoassays. Available online, and in four printed volumes, the encyclopedia is an essential reference for any practitioner in a forensic, medical, healthcare, legal, judicial, or investigative field looking for easily accessible and authoritative overviews on a wide range of topics. Chapters have been arranged in alphabetical order, and are written in a clear-and-concise manner, with definitions provided in the case of obscure terms and information supplemented with pictures, tables, and diagrams. Each topic includes cross-referencing to related articles and case studies where further explanation is required, along with references to external sources for further reading. Brings together all appropriate aspects of forensic medicine and legal medicine Contains color figures, sample forms, and other materials that the reader can adapt for their own practice Also available in an on-line version which provides numerous additional reference and research tools, additional multimedia, and powerful search functions Each topic includes cross-referencing to related articles and case studies where further explanation is required, along with references to external sources for further reading

Molecules of Murder

In its pure form, carbon appears as the soft graphite of a pencil or as the sparkling diamond in a woman's engagement ring. Underneath the surface, carbon is also the basic building block of the cells in our bodies and of all known life on earth. And at a molecular level, carbon bonds with oxygen to create carbon dioxide—a gas as vital to our life on this planet as it is detrimental at high levels in our atmosphere. As we face the climate change crisis, it's now more important than ever to understand carbon and its life cycle. *The Many Lives of Carbon* is the story of this all-important chemical element, labeled C on our periodic tables. It's the story of balance—between photosynthesis and cell respiration, between building and burning, between life and death. Dag Olav Hessen is our guide as we discover carbon in minerals, rocks, wood, and rain forests. He explains how carbon is studied by scientists, as well as its role in the greenhouse effect, and, not least, the impact of manmade emissions. Hessen isn't afraid to ask the difficult questions as he confronts us with the literally burning issue of climate change. How will ecosystems respond to global change, and how will this feed back into our climate systems? How bad could climate change be, and will our ecosystems recover? What are our moral obligations in the face of excess carbon production? Neither alarmist nor moralistic, Hessen takes readers on a journey from atom to planet in informative, compelling prose.

The Poisoner's Handbook

Miss Fisher's Murder Mysteries, now streaming on Netflix, starring Essie Davis as the honourable Phryne Fisher "Like her heroine, Greenwood has never been more confident and confronting" —Sydney Morning Herald To the accompaniment of heavenly choirs singing, the fearless Miss Phryne Fisher returns in her 20th

adventure with musical score in hand. An orchestral conductor has been found dead and Detective Inspector Jack Robinson needs the delightfully incisive and sophisticated Miss Fisher's assistance to enter a world in which he is truly lost. Hugh Tregennis, not much liked by anyone, has been murdered in a most flamboyant mode by a killer with a point to prove. But how many killers is Phryne really stalking? At the same time, the dark curls, disdainful air and the lavender eyes of mathematician and code-breaker Rupert Sheffield are taking Melbourne by storm. They've certainly taken the heart of Phryne's old friend from the trenches of WWI, John Wilson. Phryne recognizes Sheffield as a man who attracts danger and is determined to protect John from harm. Even with the faithful Dot, Mr. and Mrs. Butler, and all in her household ready to pull their weight, Phryne's task is complex. While Mendelssohn's Elijah, memories of the Great War, and the science of deduction ring in her head, Phryne's past must also play its part as MI6 become involved in the tangled web of murders.

The Lazarus Files

ONE OF PEOPLE MAGAZINE'S BEST NEW BOOKS "A searing and intimate memoir about love turned deadly." —The BBC "An intimate illumination of sisterhood and loss." —People When Sheila Kohler was thirty-seven, she received the heart-stopping news that her sister Maxine, only two years older, was killed when her husband drove them off a deserted road in Johannesburg. Stunned by the news, she immediately flew back to the country where she was born, determined to find answers and forced to reckon with his history of violence and the lingering effects of their most unusual childhood—one marked by death and the misguided love of their mother. In her signature spare and incisive prose, Sheila Kohler recounts the lives she and her sister led. Flashing back to their storybook childhood at the family estate, Crossways,

Kohler tells of the death of her father when she and Maxine were girls, which led to the family abandoning their house and the girls being raised by their mother, at turns distant and suffocating. We follow them to the cloistered Anglican boarding school where they first learn of separation and later their studies in Rome and Paris where they plan grand lives for themselves—lives that are interrupted when both marry young and discover they have made poor choices. Kohler evokes the bond between sisters and shows how that bond changes but never breaks, even after death. “A beautiful and disturbing memoir of a beloved sister who died at the age of thirty-nine in circumstances that strongly suggest murder. . . . Highly recommended.” —Joyce Carol Oates

The 13th Element

A deeply-reported, riveting account of a cold case murder in Los Angeles, unsolved until DNA evidence implicated a shocking suspect – a female detective within the LAPD’s own ranks. On February 24, 1986, 29-year-old newlywed Sherri Rasmussen was murdered in the home she shared with her husband, John. The crime scene suggested a ferocious struggle, and police initially assumed it was a burglary gone awry. Before her death, Sherri had confided to her parents that an ex-girlfriend of John’s, a Los Angeles police officer, had threatened her. The Rasmussens urged the LAPD to investigate the ex-girlfriend, but the original detectives only pursued burglary suspects, and the case went cold. DNA analysis did not exist when Sherri was murdered. Decades later, a swab from a bite mark on Sherri’s arm revealed her killer was in fact female, not male. A DNA match led to the arrest and conviction of veteran LAPD Detective Stephanie Lazarus, John’s onetime girlfriend. The Lazarus Files delivers the visceral experience of being inside a real-life murder mystery. McGough reconstructs the lives of Sherri, John and Stephanie; the love triangle that led to Sherri’s murder; and the

homicide investigation that followed. Was Stephanie protected by her fellow officers? What did the LAPD know, and when did they know it? Are there other LAPD cold cases with a police connection that remain unsolved?

Darkness Rising

How can a plant as beautiful as the foxglove be so deadly and yet for more than a century be used to treat heart disease? The same is true of other naturally occurring molecules as will be revealed in these two books from award-winning author and chemist, John Emsley. *Molecules of Murder* and *More Molecules of Murder* deal with potential poisons from man-made and natural sources. Both books investigate the crimes committed with them, not from the point of view of the murderers, their victims, or the detectives, but from the poison used. In so doing the books throw new light on how these crimes were carried out and ultimately how the perpetrators were uncovered and brought to justice. The crimes include those committed by infamous murderers and also famous victims like Harold Shipman, Alexander Litvinenko and Georgi Markov. Each chapter starts by looking at the target molecule itself, its discovery, its chemistry, its often-surprising use in medicine, its effects on the human body, and its toxicology. The rest of the chapter is devoted to murders and attempted murders in which it has been used. But, be reassured that murder by poison is not the threat it once was, thanks to laws which restrict access to such materials and to the skills of analytical chemists in detecting their presence in incredibly tiny amounts.

Molecules That Changed the World

Presents chemical, physical, nuclear, electron, crystal, biological, and geological data on all the chemical elements.

Every Molecule Tells a Story

Hand cream, detergent, shower gel, toothpaste, toilet cleaner, air freshener, lipstick, perfume, low-fat spread, painkiller, diet drink, insect repellent hundreds of everyday products that make our lives so much better than those of our forebears. And yet most of us know little about the ingredients they contain and why they deliver the benefits we enjoy. Some people find it worrying when they examine the list of ingredients on a packaging label, because all they read may be unintelligible names or E numbers. It appears to be just chemicals, chemicals, chemicals. The aim of this book is to examine the ingredients more closely and explain the reasons for their being used. Start reading and stop worrying. Chemistry at Home has been written by award-winning popular science writer and chemist, John Emsley, using non-technical language. The book has 12 chapters, each devoted to the kinds of products we are likely to find around the home, including in the garage and the garden shed. Chemistry at Home also includes a glossary which gives more technical information about the molecules mentioned in the book.

Poisons and Murder Set

The climate crisis requires that we drastically reduce carbon dioxide emissions across all sectors of society. The Story of CO₂ contributes to this vital conversation by highlighting the cutting-edge science and emerging technologies – a number of which are already commercially available – that can transform carbon dioxide into a myriad of products such as feedstock chemicals, polymers, pharmaceuticals, and fuels. This approach allows us to reconsider CO₂ as a resource, and to add "carbon capture and use" to our other tools in the fight against catastrophic climate change. The Story of CO₂ explores all aspects of carbon dioxide, from the atomic to the universal perspective, and takes the reader on an epic journey into

our physical world, starting from the moment of the Big Bang, all the way to the present world in which atmospheric CO₂ concentrations continue to grow. This story seeks to inspire readers with the latest carbon utilization technologies and explain how they fit within the broader context of carbon mitigation strategies in the shift towards a sustainable energy economy.

The Many Lives of Carbon

NEW YORK TIMES BESTSELLER • “A legal thriller that’s comparable to classics such as Scott Turow’s *Presumed Innocent* . . . tragic and shocking.”—Associated Press SOON TO BE AN ORIGINAL STREAMING SERIES • NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Entertainment Weekly • Boston Globe • Kansas City Star

Andy Barber has been an assistant district attorney for two decades. He is respected. Admired in the courtroom. Happy at home with the loves of his life: his wife, Laurie, and their teenage son, Jacob. Then Andy’s quiet suburb is stunned by a shocking crime: a young boy stabbed to death in a leafy park. And an even greater shock: The accused is Andy’s own son—shy, awkward, mysterious Jacob. Andy believes in Jacob’s innocence. Any parent would. But the pressure mounts. Damning evidence. Doubt. A faltering marriage. The neighbors’ contempt. A murder trial that threatens to obliterate Andy’s family. It is the ultimate test for any parent: How far would you go to protect your child? It is a test of devotion. A test of how well a parent can know a child. For Andy Barber, a man with an iron will and a dark secret, it is a test of guilt and innocence in the deepest sense. How far would you go? Praise for *Defending Jacob* “A novel like this comes along maybe once a decade . . . a tour de force, a full-blooded legal thriller about a murder trial and the way it shatters a family. With its relentless suspense, its mesmerizing prose, and a shocking twist at the end, it’s every bit as good as Scott Turow’s great *Presumed*

Innocent. But it's also something more: an indelible domestic drama that calls to mind *Ordinary People* and *We Need to Talk About Kevin*. A spellbinding and unforgettable literary crime novel."—Joseph Finder "Defending Jacob is smart, sophisticated, and suspenseful—capturing both the complexity and stunning fragility of family life."—Lee Child "Powerful . . . leaves you gasping breathlessly at each shocking revelation."—Lisa Gardner "Disturbing, complex, and gripping, *Defending Jacob* is impossible to put down. William Landay is a stunning talent."—Carla Neggers "Riveting, suspenseful, and emotionally searing."—Linwood Barclay

Chemistry

K.C. Nicolaou - Winner of the Nemitsas Prize 2014 in Chemistry Here, the best-selling author and renowned researcher, K. C. Nicolaou, presents around 40 natural products that all have an enormous impact on our everyday life. Printed in full color throughout with a host of pictures, this book is written in the author's very enjoyable and distinct style, such that each chapter is full of interesting and entertaining information on the facts, stories and people behind the scenes. Molecules covered span the healthy and useful, as well as the much-needed and extremely toxic, including Aspirin, urea, camphor, morphine, strychnine, penicillin, vitamin B12, Taxol, Brevetoxin and quinine. A veritable pleasure to read.

Forensic Analysis

Pink warships that vanish at dusk, urinary maladies of an emperor, and a gold test for cocaine - behold the chemistry of metal ions as never before. In this book you will learn about the sarcophagus molecule, the Chen-Kao test, and how murderers can be caught blue-

handed with the wonders of glowing luminol. You will also meet the hidden chemistry of metal ions in everyday life, from the clever modern devices that measure blood-sugar levels, to the leather on your shoes and chewing gum stuck to their soles. Expect to encounter a fair share of heroes and villains, real and fictional, scientist and layperson. Such characters include an ex-MI5 employee running a hospital ward in London amid falling German V1 rockets, a notorious racing cyclist, a proud butler and the lady who first proposed nuclear fission (it's not who you think it is). With engaging, humorous and intelligent prose, the reader will discover the fascinating back-stories of chemical discoveries and inventions where metal ions have played a major role. Featuring a foreword by popular science communicator Dr Raychelle Burks of St. Edward's University, Texas.

Bright Magic

four different perspectives, and it captures the surreal horror of life under the Soviet yoke." --Book Jacket.

Defending Jacob

Join journalist Barry Werth as he pulls back the curtain on Vertex, a start-up pharmaceutical company, and witness firsthand the intense drama being played out in the pioneering and hugely profitable field of drug research. Founded by Joshua Boger, a dynamic Harvard- and Merck-trained scientific whiz kid, Vertex is dedicated to designing -- atom by atom -- both a new life-saving immunosuppressant drug, and a drug to combat the virus that causes AIDS. You will be hooked from start to finish, as you go from the labs, where obsessive, fiercely competitive scientists struggle for a breakthrough, to Wall Street, where the wheeling and dealing takes on a life of its own, as Boger courts investors and finally decides to

take Vertex public. Here is a fascinating no-holds-barred account of the business of science, which includes an updated epilogue about the most recent developments in the quest for a drug to cure AIDS.

The Elements of Murder

Alfred Döblin's many imposing novels, above all Berlin Alexanderplatz, have established him as one of the titans of modern German literature. This collection of his stories—astonishingly, the first ever to appear in English—shows him to have been a master of short fiction too. Bright Magic includes all of Döblin's first book, The Murder of a Buttercup, a work of savage brilliance and a landmark of literary expressionism, as well as two longer stories composed in the 1940s, when he lived in exile in Southern California. The early collection is full of mind-bending and sexually charged narratives, from the dizzying descent into madness that has made the title story one of the most anthologized of German stories to "She Who Helped," where mortality roams the streets of nineteenth-century Manhattan with a white borzoi and a quiet smile, and "The Ballerina and the Body," which describes a terrible duel to the death. Of the two later stories, "Materialism, A Fable," in which news of humanity's soulless doctrines reaches the animals, elements, and the molecules themselves, is especially delightful.

Long Way Down

"One of the funniest and most unusual books of the year. Gross, educational, and unexpectedly sidesplitting."—Entertainment Weekly Stiff is an oddly compelling, often hilarious exploration of the strange lives of our bodies postmortem. For two thousand years, cadavers—some willingly, some unwittingly—have been involved in science's boldest strides and weirdest undertakings. In this fascinating account, Mary Roach visits the good deeds of cadavers

over the centuries and tells the engrossing story of our bodies when we are no longer with them.

Mechanistic Toxicology

ePub eBook 1st Edition. Accounting for Murder. Simply Media. 3rd of 37 Emma Lathen Best Sellers. Features John Putnam Thatcher, SVP of the Sloan Guaranty Trust, who gets to the bottom of things by cutting through various business goings on, a famous accountant who swooped down on a company to examine the books, dissident shareholders, community groups, and others to examine the financial motives in order to nail the killer. A humorous romp for those who like humor and good writing in their mysteries. Called the American Agatha Christie and Nero Wolfe with Portfolio by the New York Times.

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