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Understanding Genetics

Genetic Alliance 2009 The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

The Selfish Gene Richard Dawkins 1989 An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

The Gene Siddhartha Mukherjee 2016-05-17 The #1 NEW YORK TIMES Bestseller The basis for the PBS Ken Burns Documentary The Gene: An Intimate History Now includes an excerpt from Siddhartha Mukherjee’s new book Song of the Cell! From the Pulitzer Prize–winning author of The Emperor of All Maladies—a fascinating history of the gene and “a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick” (Elle). “Sid Mukherjee has the uncanny ability to bring together science, history, and the future in a way that is understandable and riveting, guiding us through both time and the mystery of life itself.” —Ken Burns “Dr. Siddhartha Mukherjee dazzled readers with his Pulitzer Prize-winning The Emperor of All Maladies in 2010. That achievement was evidently just a warm-up for his virtuoso performance in The Gene: An Intimate History, in which he braids science, history, and memoir into an epic with all the range and biblical thunder of Paradise Lost” (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives, personalities, identities, fates, and choices. “Mukherjee expresses abstract intellectual ideas through emotional stories…[and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry” (The Washington Post). Throughout, the story of Mukherjee’s own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world. In riveting and dramatic prose, he describes the centuries of research and experimentation—from Aristotle and Pythagoras to Mendel and Darwin, from Boveri and Morgan to Crick, Watson and Franklin, all the way through the revolutionary twenty-first century innovators who mapped the human genome. “A fascinating and often sobering history of how humans came to understand the roles of genes in making us who we are—and what our manipulation of those genes might mean for our future” (Milwaukee Journal-Sentinel), The Gene is the revelatory and magisterial history of a scientific idea coming to life, the most crucial science of our time, intimately explained by a master. “The Gene is a book we all should read” (USA TODAY).

Genetics of the Fowl F. B. Hutt 2003-05 This has been the indispensable companion of chicken breeders since its introduction in 1949. Chapters include the genetics of plumage, egg production, body size, disease resistance, and much more. (Animals/Pets)

She Has Her Mother’s Laugh Carl Zimmer 2018-05-29 2019 PEN/E.O. Wilson Literary Science Writing Award Finalist “Science book of the year”—The Guardian One of New York Times 100 Notable Books for 2018 One of Publishers Weekly’s Top Ten Books of 2018 One of Kirkus’s Best Books of 2018 One of Mental Floss’s Best Books of 2018 One of Science Friday’s Best Science Books of 2018 “Extraordinary”—New York Times Book Review “Magisterial”—The Atlantic “Engrossing”—Wired “Leading contender as the most outstanding nonfiction work of the year”—Minneapolis Star-Tribune Celebrated New York Times columnist and science writer Carl Zimmer presents a profoundly original perspective on what we pass along from generation to generation. Charles Darwin played a crucial part in turning heredity into a scientific question, and yet he failed spectacularly to answer it. The birth of genetics in the early 1900s seemed to do precisely that. Gradually, people translated their old notions about heredity into a language of genes. As the technology for studying genes became cheaper, millions of people ordered genetic tests to link themselves to missing parents, to distant ancestors, to ethnic identities... But, Zimmer writes, “Each of us carries an amalgam of fragments of DNA, stitched together from some of our many ancestors. Each piece has its own ancestry, traveling a different path back through human history. A particular fragment may sometimes be cause for worry, but most of our DNA influences who we are—our appearance, our height, our penchants—in inconceivably subtle ways.” Heredity isn’t just about genes that pass from parent to child. Heredity continues within our own bodies, as a single cell gives rise to trillions of cells that make up our bodies. We say we inherit genes from our ancestors—using a word that once referred to kingdoms and estates—but we inherit other things that matter as much or more to our lives, from microbes to technologies we use to make life more comfortable. We need a new definition of what heredity is and, through Carl Zimmer’s lucid exposition and storytelling, this resounding tour de force delivers it. Weaving historical and current scientific research, his own experience with his two daughters, and the kind of original reporting expected of one of the world’s best science journalists, Zimmer ultimately unpacks urgent bioethical quandaries arising from new biomedical technologies, but also long-standing presumptions about who we really are and what we can pass on to future generations.

With and Without Galton: Vasilii Florinskii and the Fate of Eugenics in Russia Nikolai Kremontsov

Your Mouth, Your Health Milan Somborac 2010-11-24 Tooth decay could be a precursor to obesity. Don't believe it? Ask your dentist. Milan Somborac, DDS, sees the same patients again and again, suffering from plaque, cavities, and infection. He provides expensive treatments for preventable conditions, and he blames it all on refined carbohydrates. The human genome represents the entirety of our hereditary information, and it is not aligned with the nutritional qualities of our food or our modern activity levels. Because of this, our overall health is in decline, and tooth decay acts as an early warning for the onset of diseases later in life. In Your Mouth, Your Health Somborac makes the connection between overall health and dental health. He tells us how to prevent decline, through easy to apply examples that will save your teeth and your life. For example, instead of telling us to avoid hot dogs, he tells us how to make them healthy. Instead of removing potatoes, he compares their nutritional value to apples. This guide does not tell you what you can't do; instead, it tells you how to do things better. There are serious benefits to eating from Mother Nature's pantry, and you can do it in your neighborhood grocery store. By following the guidelines of Your Mouth, Your Health, you will maximize your genetic potential and live a long, healthy life.

My Chimp Friday Hester Mundis 2011-10-04 Rachel can't imagine why Bucky Greene, a scientist friend of her father's who's developing genetically engineered bananas, would show up at their New York City apartment in the middle of the night to leave a baby chimpanzee with them for a week -- or why they absolutely, positively can't tell anyone about it. What could possibly be "top secret" about an adorable chimp like Friday? Rachel hasn't a clue, but when Friday turns out to be really, inexplicably intelligent (Rubik's Cube's a snap) -- and Bucky Greene turns up really, inexplicably dead (he slipped on his own banana peel) -- she suspects serious monkey business afoot. And when chimp-nappers step into the picture, getting to the bottom of Friday's "top secret" before it's too late becomes a delightfully madcap mystery -- with Rachel in a riotous, nonstop race for survival of the fittest. Written by four-time Emmy-nominated writer and acclaimed humorist Hester Mundis, who raised a chimp of her own in her Manhattan apartment, this is a wonderfully funny -- and heartfelt -- novel about endangered species, corporate espionage, and going bananas in more ways than one. **Sophie's World** Jostein Gaarder 2007-03-20 One day Sophie comes home from school to find two questions in her mail: "Who are you?" and "Where does the world come from?" Before she knows it she is enrolled in a correspondence course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is not only a mystery, but also a complete and entertaining history of philosophy.

The Mendelian Revolution Peter J. Bowler 1989 Aristotle taught that a human embryo grows from a spiritual essence provided by the father. In the eighteenth century, some thinkers imagined preformed miniatures - the entire human race, one inside the other like Russian dolls, placed by God within the womb of Eve. Even when Gregor Mendel's now-famous experiments with peas revealed the existence of what Mendel called "dominant" and "recessive" traits, other researchers ignored the findings. The history of genetics, argues Peter J. Bowler, is often a history of scientists' religious, political, and social preconceptions. In The Mendelian Revolution Bowler shows how our thinking about heredity and reproduction has changed over centuries. He describes how modern notions of heredity developed, explains what Gregor Mendel's work really meant, and challenges the myth of Mendelism's "rediscovery" in the twentieth century. From the example of genetics, he reveals the flaws in the traditional view of scientific progress as an objective search for empirical truth. And he reveals how understanding Mendelism and heredity can help us understand the increasingly complex role of genetics in the modern world. -- from dust jacket.

Safety of Genetically Engineered Foods National Research Council 2004-07-08 Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

The Double Helix James D. Watson 2011-08-16 The classic personal account of Watson and Crick’s groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of A Beautiful Mind. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science’s greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick’s desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life.

Never has a scientist been so truthful in capturing in words the flavor of his work.

How People Learn II National Academies of Sciences, Engineering, and Medicine 2018-10-27 There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, How People Learn: Brain, Mind, Experience, and School: Expanded Edition was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. How People Learn II: Learners, Contexts, and Cultures provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. How People Learn II will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

Parenting Matters National Academies of Sciences, Engineering, and Medicine 2016-11-21 Decades of research have demonstrated that the parent-child dyad and the environment of the familyâ€”which includes all primary caregiversâ€”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.

The Origins of Genome Architecture Michael Lynch 2007-06 The availability of genomic blueprints for hundreds of species has led to a transformation in biology, encouraging the proliferation of adaptive arguments for the evolution of genomic features. This text explains why the details matter and presents a framework for how the architectural diversity of eukaryotic genomes and genes came to arise.

Social Informatics Akiyo Nadamoto 2014-04-15 This book constitutes the refereed post-proceedings of two workshops held at the 5th International Conference on Social Informatics, SocInfo 2013, in Kyoto, Japan, in November 2013: the First Workshop on Quality, Motivation and Coordination of Open Collaboration, QMC 2013 and the First International Workshop on Histoinformatics, HISTOINFORMATICS 2013. The 11 revised papers presented at the workshops were carefully

reviewed and selected from numerous submissions. They cover specific areas of social informatics. The QMC 2013 workshop attracted papers on new algorithms and methods to improve the quality or to increase the motivation of open collaboration, to reduce the cost of financial motivation or to decrease the time needed to finish collaborative tasks. The papers presented at HISTOINFORMATICS 2013 aim at improving the interaction between computer science and *Histoinformatics* towards fostering a new research direction of computational history.

Ie-Psych Explor/Appl Dennis Coon 2002-08

Anne Wanjie 2013-07-15 Beginning with a short chapter introducing the concept of heredity and continues with a broader explanation of the principles of inheritance. Fascinating basic information covering cell division, molecular genetics, and genomes are all presented but does not go into excessive detail. The final chapter is a biography of Gregory Mendel.

Science Puzzlers/Paradoxes De Waard 1997-09-01 Educational resource for teachers, parents and kids!

The World Book Encyclopedia 2002 An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

John Dewey 1916 John Dewey’s Democracy and Education addresses the challenge of providing quality public education in a democratic society. In this classic work Dewey calls for the complete renewal of public education, arguing for the fusion of vocational and contemplative studies in education and for the necessity of universal education for the advancement of self and society. First published in 1916, Democracy and Education is regarded as the seminal work on public education by one of the most important scholars of the century.

The Public Domain Code Book Tony Laidig 2006-09-01 Imagine embarking on a fantastic journey-one of exploration and discovery-that will take you around the world to exotic locations and hidden portals. A journey that provides you with instant access to the secret wisdom of the ages...A journey that immerses you in incredible, breathtaking beauty...A journey that places you, the student of discovery, at the feet of the most brilliant minds from every imaginable field of expertise. Can you picture it? Now imagine being able to gain access to that limitless wisdom...boundless beauty...and inexhaustible knowledge...FOR FREE! And better still, what if you were given complete, undeniable permission to personally develop those treasures into any money-making opportunity you can imagine. No questions asked! No limitations! Talk about unlimited income potential! What would an opportunity of THAT magnitude be worth to you? Thousands of dollars? Tens of thousands? PRICELESS? Just think of it...right now: You have your pick from over 85 million books, many written by the greatest authors to have ever walked the earth. You have full rights to a private collection of art produced by the world's finest artists, illustrators and photographers. You have the keys to a movie vault containing thousands of classics you know and love-all at your fingertips-from vintage movies to cartoons and documentaries. You have unhindered access to the millions of reports, books, videos and images produced by our government every year at a cost of millions. All of it is waiting-hidden-like buried treasure...waiting to be discovered by someone with eyes to see the possibilities...the potential. This treasure is waiting for someone like YOU! Granted, you will need thecourage to believe that anything is possible. You will need a map that shows you where to look. And you will need an expert to train you how to see the hidden genes. Are you ready for X-ray vision? What I am describing is not some far-flung fantasy or pie-in-the-sky pipe dream. It is not a get-rich-quick back alley scam or even a high-level, complex secret reserved for geniuses and gurus. NO! What I am describing is the mostly undiscovered world of Public Domain. It is a world of hidden riches and forgotten secrets that would make the best tomb raiders and treasure hunters salivate with excitement. And your key to it all is "The Public Domain Code Book"! About the Author Tony Laidig is a researcher, a graphic artist, a photographer, a teacher, a publisher and a treasure hunter. He has worked in the Printing and Publishing industries for over 25 years-with the past 14 years spent working specifically as a graphic designer for the Publishing Industry. With over 500 book covers to his credit, Tony is now turning his design talents toward creating his own information products. The Public Domain Code Book is his first major project. Tony and his wife, Deborah, also serve as Directors of Healing the Land, a non-profit organization that addresses Native American issues through education, cultural presentations and publishing. Tony and Deborah's teenage daughters, Ashlea and Courtney, are also actively involved in all aspects of Healing the Land as well. The Laidig family resides in South-Central Pennsylvania. **The Genetics of Cancer** B.A. Ponder 2012-12-06 It has been recognized for almost 200 years that certain families seem to inherit cancer. It is only in the past decade, however, that molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have ~~been~~*been* proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in The Genetics of Cancer illustrate what has already been achieved and take a critical look at the future directions of this research and its potential clinical applications.

Molecular Biology of the Cell Cellular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Bruce Alberts 2004

Resources in Education 1990

Understanding Racial and Ethnic Differences in Health in Late Life National Research Council 2004-09-08 As the population of older Americans grows, it is becoming more racially and ethnically diverse. Differences in health by racial and ethnic status could be increasingly consequential for health policy and programs. Such differences are not simply a matter of education or ability to pay for health care. For instance, Asian Americans and Hispanics appear to be in better health, on a number of indicators, than White Americans, despite, on average, lower socioeconomic status. The reasons are complex, including possible roles for such factors as selective migration, risk behaviors, exposure to various stressors, patient attitudes, and geographic variation in health care. This volume, produced by a multidisciplinary panel, considers such possible explanations for racial and ethnic health differentials within an integrated framework. It provides a concise summary of available research and lays out a research agenda to address the many uncertainties in current knowledge. It recommends, for instance, looking at health differentials across the life course and deciphering the links between factors presumably producing differentials and biopsychosocial mechanisms that lead to impaired health.

Pm Science P5/6 Guided Wb Cycles

Bulletin of the Atomic Scientists 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's *idol**is* *the* *Doomsday Clock* stimulates solutions for a safer world.

Experiments in Plant-hybridisation Gregor Mendel 1925

Alfred Henry Sturtevant 2001 In the small @eFly Roomâ€ at Columbia University, T.H. Morgan and his students, A.H. Sturtevant, C.B. Bridges, and H.J. Muller, carried out the work that laid the foundations of modern, chromosomal genetics. The excitement of those times, when the whole field of genetics was being created, is captured in this book, written in 1965 by one of those present at the beginning. His account is one of the few authoritative, analytic works on the early history of genetics. This attractive reprint is accompanied by a website, http://www.esp.org/books/sturt/history/ offering full-text versions of the key papers discussed in the book, including the world's first *genetic Map**olic Diseases*

Medical Terminology for Health Professions (Book Only) Ann Ehrlich 2004-08-03

K. Tada 2013-03-14 Each disease-related chapter begins with a detailed description of the patient and the delineating symptoms used for establishing the diagnosis and differential diagnosis. The highly detailed figures illustrate the metabolic derangement in a uniform way, together with essential aspects of the genetics involved, thus affording clarification and better understanding of the treatment. Topics covered range from general aspects such as the clinical approach, emergency treatment, diagnostic procedures, and psychosocial care for the child and the family, to specific discussions of new modes of treatment, including liver, bone marrow transplantation and somatic gene therapy.

Bulletin of the Atomic Scientists 1958-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Hereditary Genius Francis Galton 1870

Resources in Education 1990

A Framework for K-12 Science Education National Research Council 2012-02-28 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Hyperparameter Tuning with Python Louis Owen 2022-07-29 Take your machine learning models to the next level by learning how to leverage hyperparameter tuning, allowing you to control the model's finest details Key Features Gain a deep understanding of how hyperparameter tuning works Explore exhaustive search, heuristic search, and Bayesian and multi-fidelity optimization methods Learn which method should be used to solve a specific situation or problem Book Description Hyperparameters are an important element in building useful machine learning models. This book curates numerous hyperparameter tuning methods for Python, one of the most popular coding languages for machine learning. Alongside in-depth explanations of how each method works, you will use a decision map that can help you identify the best tuning method for your requirements. You'll start with an introduction to hyperparameter tuning and understand why it's important. Next, you'll learn the best methods for hyperparameter tuning for a variety of use cases and specific algorithm types. This book will not only cover the usual grid or random search but also other powerful underdog methods. Individual chapters are also dedicated to the three main groups of hyperparameter tuning methods: exhaustive search, heuristic search, Bayesian optimization, and multi-fidelity optimization. Later, you will learn about top frameworks like Scikit, Hyperopt, Optuna, NNI, and DEAP to implement hyperparameter tuning. Finally, you will cover hyperparameters of popular algorithms and best practices that will help you efficiently tune your hyperparameter. By the end of this book, you will have the skills you need to take full control over your machine learning models and get the best models for the best results. What you will learn Discover hyperparameter space and types of hyperparameter distributions Explore manual, grid, and random search, and the pros and cons of each Understand powerful underdog methods along with best practices Explore the hyperparameters of popular algorithms Discover how to tune hyperparameters in different frameworks and libraries Deep dive into top frameworks such as Scikit, Hyperopt, Optuna, NNI, and DEAP Get to grips with best practices that you can apply to your machine learning models right away Who this book is for This book is for data scientists and ML engineers who are working with Python and want to further boost their ML model's performance by using the appropriate hyperparameter tuning method. Although a basic understanding of machine learning and how to code in Python is needed, no prior knowledge of hyperparameter tuning in Python is required.

Anna Čermáková 2020-12-07 Variation in Time and Space: Observing the World through Corpora is a collection of articles that address the theme of linguistic variation in English in its broadest sense. Current research in English language presented in the book explores a fascinating number of topics, whose unifying element is the corpus linguistic methodology. Part I of this volume, Meaning in Time and Space, introduces the two dimensions of variation – time and space – relating them to the negotiation of meaning in discourse and questions of intertextuality. Part II, Variation in Time, approaches the English language from a diachronic point of view; the time periods covered *are* *roughly*, ranging from 16th century up to present-day; so do the genres explored. Part III, Variation in Space, focuses on global varieties of English and includes a contrastive point of view. The range of topics is again broad – from specific lexico-grammatical structures to the variation in academic English, combining the regional and genre dimensions of variation. This is a timely volume that shows the breadth and depth in current corpus-based research of English.

Ray Bradbury 1951 A totalitarian regime has ordered all books to be destroyed, but one of the book burners suddenly realizes their merit.