

Forever Young Science And The Search For Immortality

Heavens on Earth Michael Shermer 2018-01-09 "In his most ambitious work yet, Shermer sets out to discover what drives humans' belief in life after death, focusing on recent scientific attempts to achieve immortality by radical life extentionists, extropians, transhumanists, cryonicists, and mind-uploaders, along with utopians who have attempted to create heaven on earth. For millennia, religions have concocted numerous manifestations of heaven and the afterlife, the place where souls go after the death of the physical body. Religious leaders have toiled to make sense of this place that a surprising 74% of Americans believe exists, but from which no one has ever returned to report what it is really like. *Heavens on Earth* concludes with an uplifting paean to purpose and progress and what we can do in the here-and-now, whether or not there is a hereafter" --

The Scientific Conquest of Death Immortality Institute 2004 Nineteen scientists, doctors and philosophers share their perspective on what is arguably the most significant scientific development that humanity has ever faced - the eradication of aging and mortality. This anthology is both a gentle introduction to the multitude of cutting-edge scientific developments, and a thoughtful, multidisciplinary discussion of the ethics, politics and philosophy behind the scientific conquest of aging.

The History of Living Forever Jake Wolff 2019-06-11 A chemistry student falls for his teacher and uncovers a centuries-old quest for the elixir of life The morning after the death of his first love, Conrad Aybinder receives a bequest. Sammy Tampari was Conrad's lover. He was his teacher. And, it turns out, he was not just a chemist, but an alchemist, searching for a mythic elixir of life. Sammy's death was sudden, yet he somehow managed to leave twenty years' worth of his notebooks and a storage locker full of expensive, sometimes baffling equipment in the hands of his star student. The notebooks contain

cryptic "recipes," but no instructions; they tell his life story, but only hint at what might have caused his death. And Sammy's research is littered with his favorite teaching question: What's missing? As Conrad pieces together the solution, he finds he is not the only one to suspect that Sammy succeeded in his quest. And if he wants to save his father from a mysterious illness, Conrad will have to make some very difficult choices. A globe-trotting, century-spanning adventure story, Jake Wolff's *The History of Living Forever* takes us from Maine to Romania to Easter Island and introduces a cast of unforgettable characters—drug kingpins, Big Pharma flunkies, centenarians, boy geniuses, and even a group of immortalists masquerading as coin collectors. It takes us deep into the mysteries of life—from first love to first heartbreak, from the long pall of grief to the irreconcilable loneliness of depression to the possibility of medical miracles, from coming of age to coming out. Hilarious, haunting, heart-busting, life-affirming, it asks each of us one of life's essential questions: How far would you go for someone you love?

Forever Young Jim Schnabel 1999-06-01 The story of research that might one day enable the engineering of immortality, which examines three key arenas in the battle against ageing; the fight against age related diseases; the sciences of transplant immunology and nerve regeneration; and the deep factors that cause ageing. Originally published in 1998.

The Long and the Short of It Jonathan Silvertown 2013-11-01 Everything that lives will die. That's the fundamental fact of life. But not everyone dies at the same age: people vary wildly in their patterns of aging and their life spans—and that variation is nothing compared to what's found in other animal and plant species. A giant fungus found in Michigan has been alive since the Ice Age, while a dragonfly lives but four months, a mayfly half an hour. What accounts for these variations—and what can we learn from them that might help us

understand, or better manage, our own aging? With *The Long and the Short of It*, biologist and writer Jonathan Silvertown offers readers a witty and fascinating tour through the scientific study of longevity and aging. Dividing his daunting subject by theme—death, life span, aging, heredity, evolution, and more—Silvertown draws on the latest scientific developments to paint a picture of what we know about how life span, senescence, and death vary within and across species. At every turn, he addresses fascinating questions that have far-reaching implications: What causes aging, and what determines the length of an individual life? What changes have caused the average human life span to increase so dramatically—fifteen minutes per hour—in the past two centuries? If evolution favors those who leave the most descendants, why haven't we evolved to be immortal? The answers to these puzzles and more emerge from close examination of the whole natural history of life span and aging, from fruit flies, nematodes, redwoods, and much more. *The Long and the Short of It* pairs a perpetually fascinating topic with a wholly engaging writer, and the result is a supremely accessible book that will reward curious readers of all ages.

Extending the Human Lifespan Tamara Thompson 2013 These books provide a range of opinions on a social issue; each volume focuses on a specific issue and offers a variety of perspectives, e.g., eyewitness accounts, governmental views, scientific analysis, newspaper accounts, to illuminate the issue.; This title explores the social, ethical, scientific, and philosophical implications of extending the human lifespan, including discussions of whether a radical extension of the human lifespan is possible, safe, or desirable.; Greenhaven Press's At Issue series provides a wide range of opinions on individual social issues. Enhancing critical thinking skills, each At Issue volume is an excellent research tool to help readers understand current social issues and prepare reports.

Immortality Stephen Cave 2013-02 An engaging, character-driven look at man's search for immortality throughout history and its role in driving civilization, which argues that at the heart of every human endeavor, from science and medicine to religion and art, is a powerful desire to beat death.

How to Live Forever or Die Trying Bryan Appleyard 2008-10-14 A dazzling, funny, alarming, entertaining and thought-provoking look at immortality and how some believe it will soon be within our reach. 'I want to live forever' sang the kids from FAME — and they are not alone. The search for immortality has been a constant human refrain throughout history. But medical science has improved at an exponential rate in recent decades and there are those who believe that the ability to cheat death will soon be within our reach: the first person to live to be 1,000 years old has, they say, already been born. What has happened to get people so excited about the prospect of eternal life? And if they are right, what would it mean for us as human beings? If death became negotiable, would we still fall in love or have children? Would we still, in fact, be human? *How to Live Forever or Die Trying* tackles these and myriad other questions with impressive skill. Funny, thought-provoking and often profound, it manages to grapple with the big issues of existence without blinding the reader with science, and sheds new light on why we are the way we are.

The Price of Immortality Peter Ward 2022-04-19 In the tradition of Jon Ronson and Tim Wu, an absorbing and revelatory journey into the American Way of Defying Death . . . As longevity medicine revolutionizes the lives of many older people, the quest to take the next step—to live as long as we choose—has spurred a scientific arms race in search of the elixir of life, funded by Big Tech and Silicon Valley. Once the stuff of Mesopotamian mythology and episodes of *Star Trek*, the effort to make humans immortal is becoming increasingly credible as the pace of technological progress quickens. It has also empowered a wild-eyed fringe of pseudo-scientists, tech visionaries, scam-artists, and religious fanatics who have given their lives over to the pursuit of immortality. Starting off at the Church of Perpetual Life in Florida and exploring the feuding subcultures around the cryonics industry, Peter Ward immerses himself into an eccentric world of startups, scam artists, scientific institutions, and tech billionaires to deliver this deeply reported, nuanced, and sometimes very funny exploration of the race for immortality — and the potentially devastating consequences should

humanity realize its ultimate dream.

Chasing Life Sanjay Gupta 2007-04-09 For centuries, adventurers and scientists have believed that not only could we delay death but that "practical immortality" was within our reach. Today, many well-respected researchers would be inclined to agree. In a book that is not about anti-aging, but about functional aging--extending your healthy, active life--Dr. Sanjay Gupta blends together compelling stories of the most up-to-date scientific breakthroughs from around the world, with cutting-edge research and advice on achieving practical immortality in this lifetime. Gupta's advice is often counterintuitive: longevity is not about eating well, but about eating less; nutritional supplements are a waste of your money; eating chocolate and drinking coffee can make you healthier. *Chasing Life* tells the stories behind the breakthroughs while also revealing the practical steps readers can take to help extend youth and life far longer than ever thought possible.

Immortality, Inc. Chip Walter 2020-01-07 This gripping narrative explores today's scientific pursuit of immortality, with exclusive visits inside Silicon Valley labs and interviews with the visionaries who believe we will soon crack into the aging process and cure death. We live in an age when billionaires are betting their fortunes on laboratory advances to prove aging unnecessary and death a disease that can be cured. Researchers are delving into the mysteries of stem cells and the human genome, discovering what it means to grow old and how to keep those processes from happening. This isn't science fiction; it's real, it's serious, and it's on track to revolutionize our definitions of life and mortality. In *Immortality, Inc.*, veteran science journalist Chip Walter gains exclusive access to the champions of this radical cause, delivering a book that brings together for the first time the visions of molecular biologist and Apple chairman Arthur Levinson, genomics entrepreneur Craig Venter, futurist Ray Kurzweil, rejuvenation trailblazer Aubrey de Grey, and stem cell expert Robert Hariri. Along the way, Walter weaves in fascinating conversations about life, death, aging, and the future of the human race.

The Price of Immortality Peter Ward 2022-04-19 In the tradition of Jon Ronson and Tim Wu, an absorbing and revelatory journey into the

American Way of Defying Death . . . As longevity medicine revolutionizes the lives of many older people, the quest to take the next step—to live as long as we choose—has spurred a scientific arms race in search of the elixir of life, funded by Big Tech and Silicon Valley. Once the stuff of Mesopotamian mythology and episodes of *Star Trek*, the effort to make humans immortal is becoming increasingly credible as the pace of technological progress quickens. It has also empowered a wild-eyed fringe of pseudo-scientists, tech visionaries, scam-artists, and religious fanatics who have given their lives over to the pursuit of immortality. Starting off at the Church of Perpetual Life in Florida and exploring the feuding subcultures around the cryonics industry, Peter Ward immerses himself into an eccentric world of startups, scam artists, scientific institutions, and tech billionaires to deliver this deeply reported, nuanced, and sometimes very funny exploration of the race for immortality — and the potentially devastating consequences should humanity realize its ultimate dream.

Liberation Biology Ronald Bailey 2013-08 The 21st century will undoubtedly witness unprecedented advances in understanding the mechanisms of the human body and in developing biotechnology. With the mapping of the human genome, the pace of discovery is now on the fast track. By the middle of the century we can expect that the rapid progress in biology and biotechnology will utterly transform human life. What was once the stuff of science fiction may now be within reach in the not-too-distant future: 20-to-40-year leaps in average life spans, enhanced human bodies, drugs and therapies to boost memory and speed up mental processing, and a genetic science that allows parents to ensure that their children will have stronger immune systems, more athletic bodies, and cleverer brains. Even the prospect of human immortality beckons. Such scenarios excite many people and frighten or appall many others. Already biotechnology opponents are organizing political movements aimed at restricting scientific research, banning the development and commercialization of various products and technologies, and limiting citizens' access to the fruits of the biotech revolution. In this forward-looking book Ronald Bailey, science writer for

Reason magazine, argues that the coming biotechnology revolution, far from endangering human dignity, will liberate human beings to achieve their full potentials by enabling more of us to live flourishing lives free of disease, disability, and the threat of early death. Bailey covers the full range of the coming biotechnology breakthroughs, from stem-cell research to third-world farming, from brain-enhancing neuropharmaceuticals to designer babies. Against critics of these trends, who forecast the nightmare society of Huxley's *Brave New World*, Bailey persuasively shows in lucid and well-argued prose that the health, safety, and ethical concerns raised by worried citizens and policymakers are misplaced. *Liberation Biology* makes a positive, optimistic, and convincing case that the biotechnology revolution will improve our lives and the future of our children, while preserving and enhancing the natural environment.

Forever Young Jim Schnabel 1998 A look at the scientists around the world who are researching immortality. Their work falls into three categories: the fight against age-related diseases like Alzheimer's; the sciences of transplant immunology and nerve regeneration; and investigating the biological processes that cause ageing.

Immortality Stephen Cave 2012-04-17 There is a cloud-capped peak where gods and immortals while away their infinite days, and since the dawn of humanity everyone - whether they know it or not - has been trying to climb that mountain. But there are only four paths up its treacherous slope. Throughout history, people have wagered everything on their choice and fought wars against those who've decided differently. Each of these four paths - simply staying alive indefinitely, through magic or medicine; being resurrected; persisting as a soul; or living on through one's legacy - is revealed to us by a historical figure who serves as our guide. It is through these diverse individuals - such as the Egyptian queen Nefertiti; vitamin-obsessed Nobel Laureate Linus Pauling; author Mary Shelley; and Alexander the Great - that we come to understand how many of civilisation's greatest achievements have been born of our need to see our essence endure. As optimistic about the human condition as it is insightful, *Immortality* takes the reader on an eye-opening journey

from the beginnings of civilisation to the present day. Bringing together history and philosophy, this fascinating book both enlightens and entertains, investigating whether it just might be possible to live forever, and whether that's something we should actually aspire to. But its most powerful and arresting argument is this - that it is our very preoccupation with defying mortality that has made our civilisation what it is.

Immortality, Inc Chip Walter 2020 "Veteran journalist Chip Walter takes us deep inside Silicon Valley's boardrooms and the world's most advanced biomedical labs to reveal the incredible new science of extending human lifespan. Here are the bold business moves funded by Google and made by Apple chairman and Calico CEO Arthur Levinson; the pioneering stem cell techniques developed by scientist Robert Hariri; the transformative enterprises established by genomics genius Craig Venter; and the mind-bending future envisioned by thought leader Ray Kurzweil--all pointing toward a time not too long from now when we will live without disease or diminished faculties far beyond the age of 100. It's an audacious cast of characters, and through their stories you will come to understand how groundbreaking discoveries in gene therapy, molecular biology, and artificial intelligence are cracking the aging process--and could even lead to immortality. As Walter reveals, the quest to cheat death isn't science fiction anymore. It's real, it's serious, and it will change absolutely everything--including our definition of what it means to be alive."--Dust jacket.

Forever Young Claude Nougat 2014-05-20 Wonder about the world of our great-great-grandchildren? Who will survive? This is the fourth episode of FOREVER YOUNG, a climate fiction/hard science fiction novel in 4 episodes set 200 years from now. Life on earth is headed for extinction and society is divided between the ultra-rich and the rest who suffer the full onslaught of climate change and pollution. Part One explores the costly Age Prevention Programme (APP) and what it means to belong to it...or remain outside - for Alice, a lovely Swiss nurse, for ambitious Lizzie, a talented golf player, the descendant of the mythical Tiger Woods, and for adventurous Jamie, a brilliant reporter for the

World and US Post. Part Two, "The Immortality Trip" is the name given to the project to transport a contingent of One Percenters to the nearest liveable exoplanet and settle it. Will Jamie, Lizzie and Alice be able to board that trip? Part Three, "The Hibernation party" introduces the other option opened to One Percenters to survive extinction: take refuge on Antarctica, the last virgin continent. Jamie discovers the dangers of this option when Gary Trude, the head of the Hibernation Party, a despot with Hitler's dangerous ambitions, threatens him and his friends. Can they escape from Gary Trude? Part Four, "The Longevity Gene" introduces yet another twist in this tormented future world: can a gene make a difference for survival of the human race and why is Gary Trude focused on it? Meanwhile our friends are set to fly to the 'Forever Planet', but will they all make it? The novel - classified as both a "hard" science fiction and a climate fiction novel - interweaves several plot lines. The first chronicles the love triangle between Alice, Lizzie, and Jamie. The second covers the only two options left to save humanity, both reserved to One Percenters: one, escape to another pristine planet, a thousand light years away; the other, retreat to Antarctica, the last virgin continent. A ruthless rivalry develops between those who aim to stay on Earth and those bent on escaping to another world. The third follows the murderous attempts of one determined 99 Percenter, Ernie, a retired Blue Beret who is hell-bent on carving a place for himself in the Age Prevention Program. NOTE TO THE READER: This book follows the model of serialized novels, like Hugh Howey's best-selling WOOL, and is published in four separate parts, each self-standing. It is however preferable to read them in order as follows: Part One: Gateway to Forever Part Two: The Immortality Trip Part Three: The Hibernation Party Part Four: The Longevity Gene The omnibus edition, containing all four parts, is also available.

Chasing Methuselah Todd T. W. Daly 2021-02-04 The quest to live much longer has moved from legend to the laboratory. Recent breakthroughs in genetics and pharmacology have put humanity on the precipice of slowing down human aging to extend the healthy life span. The promise of longer, healthier life is enormously attractive, and poses

several challenging questions for Christians. Who wouldn't want to live 120 years or more before dying quickly? How do we make sense of human aging in light of Jesus' invitation to daily take up our crosses with the promise of the resurrection to come? Is there anything wrong with manipulating our bodies technologically to live longer? If so, how long is too long? Should aging itself be treated as a disease? In *Chasing Methuselah*, Todd Daly examines the modern biomedical anti-aging project from a Christian perspective, drawing on the ancient wisdom of the Desert Fathers, who believed that the incarnation opened a way for human life to regain the longevity of Adam and the biblical patriarchs through prayer and fasting. Daly balances these insights with the christological anthropology of Karl Barth, discussing the implications for human finitude, fear of death, and the use of anti-aging technology, weaving a path between outright condemnation and uncritical enthusiasm.

Ageless Andrew Steele 2021-03-23 "A fascinating look at how scientists are working to help doctors treat the aging process itself, helping us all to lead longer, healthier lives." —Sanjay Gupta, MD Aging—not cancer, not heart disease—is the underlying cause of most human death and suffering. The same cascade of biological changes that renders us wrinkled and gray also opens the door to dementia and disease. We work furiously to conquer each individual disease, but we never think to ask: Is aging itself necessary? Nature tells us it is not: there are tortoises and salamanders who are spry into old age and whose risk of dying is the same no matter how old they are, a phenomenon known as "biological immortality." In *Ageless*, Andrew Steele charts the astounding progress science has made in recent years to secure the same for humans: to help us become old without getting frail, to live longer without ill health or disease.

The Man Who Lived Forever Walt F J Goodridge 2014-09-13 Scientists tell us that the human body is genetically coded for perfect health, youthfulness and immortality. In other words, since the body's 7 trillion cells renew themselves every seven years, there's actually no reason for us to age, get sick or even die. If that's true, then what are we doing

wrong? Why are people getting sick younger and aging faster? How did we lose our connection to immortality? And how do we get it back? What if there were a way you could re-activate your body's dormant code and stay young forever..or at least a lot longer? Imagine living in perfect health for all your life and never getting sick. Imagine if you never caught a cold, didn't get cavities, and kept your skin smooth, your mind sharp, and your body vital and energetic for as long as you chose to live--without pills and drugs! Are there people living now who know those secrets? Might there actually be immortals living among us who keep their existence hidden for obvious reasons? What if you could find one of these ageless adepts, what could you learn? What if you could spend a week with one such person? What ageless secrets could an earth-bound immortal share with you about health and living? One determined seeker finds out in this "based on truth" quest and documents the ensuing 7 conversations that answer life's most elusive question, and changes his life forever!

Long for This World Jonathan Weiner 2010-06-22 "[A] searching and surprisingly witty look at the scientific odds against tomorrow."
—Timothy Ferris Jonathan Weiner—winner of the Pulitzer Prize, the National Book Critics Circle Award, and the Los Angeles Times Book Prize, and one of the most distinguished popular science writers in America—examines "the strange science of immortality" in *Long for This World*. A fast-paced, sure-to-astonish scientific adventure from "one of our finest science journalists" (Jonah Lehrer), Weiner's *Long for This World* addresses the ageless question, "Is there a secret to eternal youth?" And has it, at long last, been found?

The Quest for Immortality: Science at the Frontiers of Aging Bruce A. Carnes 2002-07-17 "This is by far the best book I've read on the science of aging."—Andrew Weil, M.D. "Life-span Truth Will Set You Free from Age-old Worries," announced the Chicago Tribune upon the first publication of this book. The New England Journal of Medicine confirmed, "For readers interested in aging and longevity, this small book clearly explains the major concepts...extremely enjoyable to read." From NBC Nightly News with Tom Brokaw to Scientific American to the

New York Times, S. Jay Olshansky and Bruce A. Carnes have stirred up controversy and brought clarity to an issue often muddled by exaggeration and pseudoscience. Medical science has uncovered a host of answers to the problems of aging, but many of the most exciting discoveries are buried in scientific journals or overshadowed by popular quick-fix treatments. *The Quest for Immortality* explains the real science of aging and shows which treatments offered by today's multi-billion-dollar anti-aging industries offer real hope, and which are a waste of money and time.

The Future of Immortality Anya Bernstein 2019-06-25 A gripping account of the Russian visionaries who are pursuing human immortality As long as we have known death, we have dreamed of life without end. In *The Future of Immortality*, Anya Bernstein explores the contemporary Russian communities of visionaries and utopians who are pressing at the very limits of the human. *The Future of Immortality* profiles a diverse cast of characters, from the owners of a small cryonics outfit to scientists inaugurating the field of biogerontology, from grassroots neurotech enthusiasts to believers in the Cosmist ideas of the Russian Orthodox thinker Nikolai Fedorov. Bernstein puts their debates and polemics in the context of a long history of immortalist thought in Russia, with global implications that reach to Silicon Valley and beyond. If aging is a curable disease, do we have a moral obligation to end the suffering it causes? Could immortality be the foundation of a truly liberated utopian society extending beyond the confines of the earth—something that Russians, historically, have pondered more than most? If life without end requires radical genetic modification or separating consciousness from our biological selves, how does that affect what it means to be human? As vividly written as any novel, *The Future of Immortality* is a fascinating account of techno-scientific and religious futurism—and the ways in which it hopes to transform our very being.

The Book of Immortality Adam Gollner 2014-09-30 An exploration of one of the most universal human obsessions charts the rise of longevity science from its alchemical beginnings to modern-day genetic interventions and enters the world of those whose lives are shaped by a

belief in immortality.

Turning the Future Into Revenue Glen Hiemstra 2006-07-21 DISCOVER THE FUTURE OF BUSINESS In *Turning the Future into Revenue*, Glen Hiemstra, founder of Futurist.com and noted expert on emerging business opportunities, explores how our changing world will transform private enterprise and public policy. From shifting demographics to global warming to new energy policies, change is coming. *Turning the Future into Revenue* shows how these new realities can be turned into profitable new ventures. Some of the topics Hiemstra discusses include: Five long-term trends you should be prepared for Global warming and the urgent need for green business Profiting from technology and energy trends Predicting the future of your business or career Hedging your bets on future business Ten key practices of the future-oriented enterprise Future planning exercises, tools, and activities Tactics for forecasting the future Shaping your career for future success

The Fight Over the Future Sage Crossroads 2004 Throughout our history, humans have been fascinated by the possibility of improving the length and quality of life. In the past, this was the purview of poets and philosophers but increasingly this is becoming the hard targets for science and medicine. But what are the social, ethical and economic ramifications of extending life? This book highlights debates between the country's top scientists, political experts, journalists and ethicists as they come face to face to share their futuristic, and often radical, predictions and views. At a time when our country's older population is increasing at an unprecedented rate, these experts cautiously contemplate the public policy consequences of advances in the science of aging. These transcripts are the products of monthly debates and interviews hosted on SAGECrossroads.net, a unique web portal committed to shining a bright and often controversial spotlight on emerging issues surrounding aging research. SAGE Crossroads is an initiative of the American Association for the Advancement of Science, SAGE KE, and the Alliance for Aging Research.

Forever Young Claude Nougat 2014-05-06 What it takes to save the world from extinction. 200 years from now, the world, in the grip of

global warming, is eerily like ours, only much worse. The ultra-rich, a.k.a. the One Percenters, live in protected areas while the rest of humanity faces pollution, plagues and early death. The One Percenters are the only ones who can afford all the advances of technology, in particular the exclusive Age Prevention Program (APP) that lets them live their whole life span looking "forever young" till the day they drop dead. Three friends struggling for survival, Lizzie, a young California golf champion, Jamie, an investigative journalist for the World and US Post and Alice, a lovely Swiss nurse, try to enter the APP. Meanwhile Lizzie's uncle, a determined and ruthless 99 Percenter retired from the military, lurks around, hell-bent on carving a place for himself in the APP. Only two options are open to escape extinction: one, fly to another planet a thousand light years away, pristine and green much like Earth before industrialization - but the so-called "Immortality Trip" is reserved to One Percenters; the other, retreat to Antarctica, the last virgin continent - but it is in the hands of Gary Trude XIII, a Hitlerian-style autocrat. Can Lizzie, Jamie and Alice escape from Gary Trude and join the Immortality Trip? NOTE TO THE READER: This book follows the model of serialized novels and is digitally published in four separate parts, each self-standing. It is however preferable to read them in order and the present book is an omnibus edition that includes all four parts. PART ONE, "Gateway to Forever", explores the costly APP and what it means to belong to it...or remain outside. PART TWO, "The Immortality Trip" is the name given to the project to transport a contingent of One Percenters to the nearest liveable exoplanet and settle it. Will Jamie, Lizzie and Alice be able to board that trip?

Heavens on Earth Michael Shermer 2018-01-09 A scientific exploration into humanity's obsession with the afterlife and quest for immortality from the bestselling author and skeptic Michael Shermer In his most ambitious work yet, Shermer sets out to discover what drives humans' belief in life after death, focusing on recent scientific attempts to achieve immortality along with utopian attempts to create heaven on earth. For millennia, religions have concocted numerous manifestations of heaven and the afterlife, and though no one has ever returned from such a place

to report what it is really like—or that it even exists—today science and technology are being used to try to make it happen in our lifetime. From radical life extension to cryonic suspension to mind uploading, Shermer considers how realistic these attempts are from a proper skeptical perspective. *Heavens on Earth* concludes with an uplifting paean to purpose and progress and how we can live well in the here-and-now, whether or not there is a hereafter.

The Immortal Life of Henrietta Lacks Rebecca Skloot 2010-02-02 #1 NEW YORK TIMES BESTSELLER • “The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta’s family did not learn of her “immortality” until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had

launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta’s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn’t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

Immortality Stephen Cave 2012-04-03 If you could live forever, would you want to? Both a fascinating look at the history of our strive for immortality and an investigation into whether living forever is really all it’s cracked up to be. A fascinating work of popular philosophy and history that both enlightens and entertains, Stephen Cave investigates whether it just might be possible to live forever and whether we should want to. He also makes a powerful argument that it’s our very preoccupation with defying mortality that drives civilization. Central to this book is the metaphor of a mountaintop where one can find the Immortals. Since the dawn of humanity, everyone – whether they know it or not—has been trying to climb that mountain. But there are only four paths up its treacherous slope, and there have only ever been four paths. Throughout history, people have wagered everything on their choice of the correct path, and fought wars against those who’ve chosen differently. In drawing back the curtain on what compels humans to “keep on keeping on,” Cave engages the reader in a number of mind-bending thought experiments. He teases out the implications of each immortality gambit, asking, for example, how long a person would live if they did manage to acquire a perfectly disease-free body. Or what would happen if a super-being tried to round up the atomic constituents of all

who've died in order to resurrect them. Or what our loved ones would really be doing in heaven if it does exist. We're confronted with a series of brain-rattling questions: What would happen if tomorrow humanity discovered that there is no life but this one? Would people continue to please their boss, vie for the title of Year's Best Salesman? Would three-hundred-year projects still get started? If the four paths up the Mount of the Immortals lead nowhere—if there is no getting up to the summit—is there still reason to live? And can civilization survive? *Immortality* is a deeply satisfying book, as optimistic about the human condition as it is insightful about the true arc of history.

The Immortalization Commission John Gray 2011-03-29 A Globe and Mail Best Books of the Year 2011 Title At the heart of human experience lies an obsession with the nature of death. Religion, for most of history, has provided an explanation for human life and a vision of what comes after it. But in the late nineteenth and early twentieth centuries, such beliefs came under relentless pressure as new ideas—from psychiatry to evolution to communism—seemed to suggest that our fate was now in our own hands: humans could cease to be animals, defeat death, and become immortal. In *The Immortalization Commission*, the acclaimed political philosopher and critic John Gray takes a brilliant and frightening look at humankind's dangerous striving toward a scientific version of immortality. Probing the parallel faiths of Bolshevik "God-builders," who sought to reshape the planet and psychical researchers, who believed they had evidence of a nonreligious form of life after death, Gray raises fascinating questions about how such beliefs threaten the very nature of what it means to be human. He looks to philosophers, journalists, politicians, charlatans, and mass murderers who all felt driven by a specifically scientific and modern worldview and whose revolt against death resulted in a series of experiments that ravaged whole countries. An urgent examination of Darwin's post-religious legacy, *The Immortalization Commission* is an important work from "one of Britain's leading public intellectuals" (The Wall Street Journal).

The Science and Technology of Growing Young Sergey Young 2021-08-24 Wall Street Journal, USA Today, and Publishers Weekly

bestseller *The prospect of living to 200 years old isn't science fiction anymore.* A leader in the emerging field of longevity offers his perspective on what cutting-edge breakthroughs are on the horizon, as well as the practical steps we can take now to live healthily to 100 and beyond. In *The Science and Technology of Growing Young*, industry investor and insider Sergey Young demystifies the longevity landscape, cutting through the hype and showing readers what they can do now to live better for longer, and offering a look into the exciting possibilities that await us. By viewing aging as a condition that can be cured, we can dramatically revolutionize the field of longevity and make it accessible for everyone. Join Sergey as he gathers insights from world-leading health entrepreneurs, scientists, doctors, and inventors, providing a comprehensive look into the future of longevity in two horizons: • The Near Horizon of Longevity identifies the technological developments that will allow us to live to 150—some of which are already in use—from AI-based diagnostics to gene editing and organ regeneration. • The Far Horizon of Longevity offers a tour of the future of age reversal, and the exciting technologies that will allow us to live healthily to 200, from Internet of Bodies to digital avatars to AI-brain integration. In a bonus chapter, Sergey also showcases 10 longevity choices that we already know and can easily implement to live to 100, distilling the science behind diet, exercise, sleep, mental health, and our environments into attainable habits and lifestyle hacks that anyone can adopt to vastly improve their lives and workplaces. Combining practical advice with an incredible overview of the brave new world to come, *The Science and Technology of Growing Young* redefines what it means to be human and to grow young.

Ending Aging Aubrey de Grey 2007-09-04 MUST WE AGE? A long life in a healthy, vigorous, youthful body has always been one of humanity's greatest dreams. Recent progress in genetic manipulations and calorie-restricted diets in laboratory animals hold forth the promise that someday science will enable us to exert total control over our own biological aging. Nearly all scientists who study the biology of aging agree that we will someday be able to substantially slow down the aging

process, extending our productive, youthful lives. Dr. Aubrey de Grey is perhaps the most bullish of all such researchers. As has been reported in media outlets ranging from 60 Minutes to The New York Times, Dr. de Grey believes that the key biomedical technology required to eliminate aging-derived debilitation and death entirely—technology that would not only slow but periodically reverse age-related physiological decay, leaving us biologically young into an indefinite future—is now within reach. In *Ending Aging*, Dr. de Grey and his research assistant Michael Rae describe the details of this biotechnology. They explain that the aging of the human body, just like the aging of man-made machines, results from an accumulation of various types of damage. As with man-made machines, this damage can periodically be repaired, leading to indefinite extension of the machine's fully functional lifetime, just as is routinely done with classic cars. We already know what types of damage accumulate in the human body, and we are moving rapidly toward the comprehensive development of technologies to remove that damage. By demystifying aging and its postponement for the nonspecialist reader, de Grey and Rae systematically dismantle the fatalist presumption that aging will forever defeat the efforts of medical science.

A Brief History of Living Forever Jaroslav Kalfar 2023-03-28 In this “ingenious, funny, and chilling” novel (Publishers Weekly, starred review) from the author of *Spaceman of Bohemia*, two long-lost siblings risk everything to save their mother from oblivion in an authoritarian near-future America obsessed with digital consciousness and eternal life—a story that “packs a wallop punch” (Esquire). When Adéla discovers she has a terminal illness, she leaves behind her native Czech village for a chance at reuniting in America with Tereza, the daughter she gave up at birth, decades earlier. But the country Adéla experienced as a young woman, when she eloped with a filmmaker and starred in his cult sci-fi movie, has changed entirely. In 2030, America is ruled by an authoritarian government increasingly closed off to the rest of the world. Tereza, the star researcher for VITA, a biotech company hellbent on discovering the key to immortality, is overjoyed to meet her mother, with whom she forms an instant, profound connection. But when their time

together is cut short by shocking events, Tereza must uncover VITA’s alarming activity in the wastelands of what was once Florida, and persuade the Czech brother she’s never met to join her in this odds-defying adventure. Narrated from the beyond by Adéla’s restless spirit, *A Brief History of Living Forever* is a high-wire act of storytelling from a writer “booming with vitality and originality,” whose “voice is distinct enough to leave tread marks” (New York Times). By turns insightful, moving, and funny, the novel not only confirms Jaroslav Kalfar’s boundless powers of invention but also exults in the love between a mother and her daughter, which neither space nor time can sever. “Kalfar is a wise, rapturous, and original writer . . . Eloquent, heart-stunning, and rich in awe-inspiring prose.” —San Francisco Chronicle “Relentlessly inventive . . . His writing has the same hyperactivity and fidgety contempt for generic boundaries as that of the young Safran Foer.” —The Guardian

Intimations of Immortality Gerald Leinwand 2010-10-01 My grandfather died when he was sixty-five, my father died at seventy. At eighty-eight, I am the eldest of three brothers all of us older than our father was at his death. Given a reasonable degree of vitality, however, I would like to live to forever. Wouldn't you? I would like to be at my grandchildren and great-grand children's weddings. Wouldn't you? I would like to see how it all comes out in the end of time, for my family, my country, for the world. Wouldn't you? Wouldn't it be great if the intellectual giants of centuries past could be with us yet. Many of them achieved their best work in literature, art, philosophy, science or mathematics at advanced ages. Wouldn't the world be a better place if the accumulated wisdom of these talented people could still be around to set us straight? The poet, William Wordsworth thought so when he eulogized John Milton: "Milton! thou shouldst be living at this hour: England hath need of thee: she is a fen /Of stagnant waters." With England traumatized by Napoleon, Wordsworth sought Milton's help. Surely, these greats of yesteryear could contribute to our own trauma of global terrorism. It is asserted by some that the search for immortality is pornographic. Yet, it will be remembered of the twenty-first century that a conscious effort was made

to confront and perhaps conquer death. Wasserman (helped conquer sexually transmitted diseases) Salk (the anti-polio vaccine.)
 Pornographers? Nonsense? "Death be not proud," wrote the poet, John Donne. He was right. While searching for immortality we are baffled by age. My first wife for forty-three years died of rampaging breast cancer, my second wife for six years died of virulent brain cancer. How does one make sense as to why we are attacked by Parkinson's and Alzheimers, by heart disease and cancer? Why the Holocaust? Why the terror of 9/11? Thus, the young may see things as they are and ask, "Why?" while the old may still dream of things that never were and ask, "Why not?"

Genes, Aging, and Immortality Charlotte Spencer 2006 This booklet answers questions about the mysteries of aging and the search for immortality. It describes some of the current progress in the scientific study of aging and explores social and ethical questions surrounding the real possibility of human lifespan extension.

How to Live Forever Stephen R. L. Clark 2015-05-07 Immortality has been a long-explored subject. How to Live Forever is a compelling study which introduces students and professional philosophers to the possibilities of using science fiction in their work.

Fantastic Voyage Ray Kurzweil 2005-09-27 A leading scientist and an expert on human longevity explain how new discoveries in the fields of genomics, biotechnology, and nanotechnology could radically extend the human life expectancy and enhance physical and mental abilities, and introduce a cutting-edge program designed to enhance the immune system and slow the aging process on a cellular level. Reprint.

Immortality: Ben Bova 1998-09-01 The first immortals are already living among us. You might be one of them. At first glance, that arresting statement sounds as if it might come from a science fiction story. But it is an astonishing, exciting fact--as explained clearly and cogently by Dr. Ben Bova. In his distinguished career, Dr. Bova has predicted the discovery of life on Mars, the space race of the 1960s, solar-powered satellites, the discovery of organic chemicals in interstellar space, virtual reality, the Strategic Defense Initiative, the advent of international peacekeeping forces, the discovery of ice on the Moon, and electronic

book publishing Now he explores the future effects of science and technology on the human life span--and discovers that one day, death will no longer be the inevitable end of life. Dr. Bova guides readers through worldwide research into the biochemical processes that cause aging and death, and shows what scientists are discovering about stopping, perhaps even reversing these processes According to Dr. Bova, if you have a normal life expectancy today, the medical and biological advances that will be achieved over the next ten to twenty years will probably allow you to live long past one hundred The longer you live, the more knowledge scientists will glean, and the further they will be able to extend your life span. With crystal-clear, utterly accessible prose Dr. Bova explains how science could maintain the youth and vigor of a fifty-year-old indefinitely, perhaps even reversing the effects of aging He also offers provocative thoughts on the tumultuous societal consequences of such biomedical breakthroughs, as greatly extended life spans and virtual immortality transform institutions like Medicare, Social Security, pension plans, life insurance, even the very foundations of work and retirement Here is a compelling, startling, understandable, and vitally important study of the greatest challenge--and the most tantalizing opportunity--ever faced by The first immortals are already living among us. You might be one of them. At first glance, that arresting statement sounds as if it might come from a science fiction story. But it is an astonishing, exciting fact--as explained clearly and cogently by Dr. Ben Bova. In his distinguished career, Dr. Bova has predicted the discovery of life on Mars, the space race of the 1960s, solar-powered satellites, the discovery of organic chemicals in interstellar space, virtual reality, the Strategic Defense Initiative, the advent of international peacekeeping forces, the discovery of ice on the Moon, and electronic book publishing Now he explores the future effects of science and technology on the human life span--and discovers that one day, death will no longer be the inevitable end of life. Dr. Bova guides readers through worldwide research into the biochemical processes that cause aging and death, and shows what scientists are discovering about stopping, perhaps even reversing these processes According to Dr. Bova, if you have a normal

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Forever Young Science And The Search For Immortality

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