

A History of Life-Extensionism In The Twentieth Century



ILIA STAMBLER, PHD

A History Of Life Extensionism In The Twentieth Century

Oliver Krüger



A History Of Life Extensionism In The Twentieth Century:

A History of Life-extensionism in the Twentieth Century Ilia Stambler, 2014-08-29 This work explores the history of life extensionism in the 20th century The term life extensionism is meant to describe an ideological system professing that radical life extension far beyond the present life expectancy is desirable on ethical grounds and is possible to achieve through conscious scientific efforts This work examines major lines of life extensionist thought in chronological order over the course of the 20th century while focusing on central seminal works representative of each trend and period by such authors as Elie Metchnikoff Bernard Shaw Alexis Carrel Alexander Bogomolets and others Their works are considered in their social and intellectual context as parts of a larger contemporary social and ideological discourse associated with major political upheavals and social and economic patterns The following national contexts are considered France Chapter One Germany Austria Romania and Switzerland Chapter Two Russia Chapter Three the US and UK Chapter Four This work pursues three major aims The first is to attempt to identify and trace throughout the century several generic biomedical methods whose development or applications were associated with radical hopes for life extension Beyond mere hopefulness this work argues the desire to radically prolong human life often constituted a formidable though hardly ever acknowledged motivation for biomedical research and discovery It will be shown that novel fields of biomedical science often had their origin in far reaching pursuits of radical life extension The dynamic dichotomy between reductionist and holistic methods will be emphasized The second goal is to investigate the ideological and socio economic backgrounds of the proponents of radical life extension in order to determine how ideology and economic conditions motivated the life extensionists and how it affected the science they pursued For that purpose the biographies and key writings of several prominent longevity advocates are studied Their specific ideological premises attitudes toward religion and progress pessimism or optimism regarding human perfectibility and ethical imperatives as well as their socioeconomic conditions the ability to conduct and disseminate research in a specific social or economic milieu are examined in an attempt to find out what conditions have encouraged or discouraged life extensionist thought This research argues for the inherent adjustability of life extensionism as a particular form of scientific enterprise to particular prevalent state ideologies The third more general aim is to collect a broad register of life extensionist works and based on that register to establish common traits and goals definitive of life extensionism such as valuation of life and constancy despite all the diversity of methods and ideologies professed This work will contribute to the understanding of extreme expectations associated with biomedical progress that have been scarcely investigated by biomedical history

The Death of Death José Cordeiro, David Wood, 2023-06-29 Is death inevitable Until now the history of mankind has been marked by this fatal fact Religions borders and progress are born from an ancient fear of death comfort from this fear man often found only in religious paradigms But according to Jos Luis Cordeiro and David Wood the incontrovertible fact of death is no longer an absolute certainty science and technology are preparing to tear down

the final frontier that of immortality This accessible book provides insight into recent exponential advances in artificial intelligence tissue regeneration stem cell treatment organ printing cryopreservation and genetic therapies that for the first time in human history offer a realistic chance to solve the problem of the aging of the human body In this book Cordeiro and Wood not only present all the major developments initiatives and ideas for eternal life they also show why there are a number of good arguments for seeing death for what it is the last undefeated disease Enter any drugstore or bookstore and we confronted with a mountain of nonsense concerning the aging process Society seems obsessed with aging That is why *The Death of Death* is such a refreshing delight able to cut through the hype and reveal a balanced authoritative and lucid discussion of this controversial topic It summarizes the astonishing breakthroughs made recently in revealing how science may one day conquer the aging process Michio Kaku theoretical physicist and author of *The God Equation* *The Quest for a Theory of Everything* We are entering a *Fantastic Voyage* into life extension crossing different bridges that will take us to indefinite life spans *The Death of Death* explains clearly how we might soon reach longevity escape velocity and live long enough to live forever Ray Kurzweil co author of *Fantastic Voyage* *Live Long Enough to Live Forever* and co founder of Singularity University *The Death of Death* is a truly revolutionary book This is a visionary book that confronts us with the terrible reality of aging and its authors are friends and connoisseurs of the subject I believe that the authoritative and exhaustive description of this crusade that Jos and David make in this excellent book will accelerate this process Forward Aubrey de Grey founder of LEV Longevity Escape Velocity Foundation and co author of *Ending Aging* *Life and Evolution* Lorenzo Baravalle, Luciana Zaterka, 2020-04-10 This book offers to the international reader a collection of original articles of some of the most skillful historians and philosophers of biology currently working in Latin American universities During the last decades increasing attention has been paid in Latin America to the history and philosophy of biology but since many local authors prefer to write in Spanish or in Portuguese their ideas have barely crossed the boundaries of the continent This volume aims to remedy this state of things providing a good sample of this production to the English speaking readers bringing together contributions from researchers working in Brazilian Argentinean Chilean Colombian and Mexican universities The stress on the regional provenance of the authors is not intended to suggest the existence of something like a Latin American history and philosophy of biology supposedly endowed with distinctive features On the contrary the editors firmly believe that advances in this field can be achieved only by stimulating the integration in the international debate Based on this assumption the book focuses on two topics life and evolution and presents a selection of contributions addressing issues such as the history of the concept of life the philosophical reflection on life manipulation and life extension the structure and development of evolutionary theory as well as human evolution *Life and Evolution Latin American Essays on the History and Philosophy of Biology* will provide the international reader with a rather complete picture of the ongoing research in the history and philosophy of biology in Latin America offering a snapshot of this dynamic community It will also

contribute to contextualize and develop the debate concerning life and evolution and the relation between the two phenomena *Time, Life & Memory* Laurens Landeweerd, 2020-12-03 This book revitalizes the relevance of the ideas of Henri Bergson 1859 1941 for current developments in exact sciences It explores the relevance of Bergson's thought for contemporary philosophical reflections on three of the most important scientific research areas of today namely physics the life sciences and the neurosciences It does so on the basis of the three interrelated topics of time life and memory Henri Bergson 1859 1941 was one of the most widely read philosophers of his era The European public was seeking for answers to questions of the soul and the nature of life and fitting within a historical niche between intellectual rationalism and intuitive spiritualism his writings drew much attention This work focuses on the relevance of his philosophy for developments in exact sciences today The discussion of physics in relation to the abstract and the concrete the life sciences in relation to concepts of life in relation to new and emerging biotechnology and the neurosciences in relation to the dual nature of human identity focuses on one main topic time Time isolated from experience as the measure of the events in the universe in modern physics time as the measure of emergent systems in evolution as the backdrop of the theory of evolution in biology time in relation to memory and imagination in neuropsychological accounts of memory The author thus discusses the ideas of Henri Bergson as a basis to unveil time as a living process rather than as an instrument for the measure of events This view forms the basis of a novel approach to the philosophy of technology An exciting book for academics interested in the interplay between hard sciences and philosophy **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

Transhumanism - Engineering the Human Condition Roberto Manzocco, 2019-03-11 This book is designed to offer a comprehensive high level introduction to transhumanism an international political and cultural movement that aims to produce a paradigm shift in our ethical and political understanding of human evolution Transhumanist thinkers want the

human species to take the course of evolution into its own hands using advanced technologies currently under development such as robotics artificial intelligence biotechnology cognitive neurosciences and nanotechnology to overcome our present physical and mental limitations improve our intelligence beyond the current maximum achievable level acquire skills that are currently the preserve of other species abolish involuntary aging and death and ultimately achieve a post human level of existence The book covers transhumanism from a historical philosophical and scientific viewpoint tracing its cultural roots discussing the main philosophical epistemological and ethical issues and reviewing the state of the art in scientific research on the topics of most interest to transhumanists The writing style is clear and accessible for the general reader but the book will also appeal to graduate and undergraduate students *Explaining Health Across the Sciences* Jonathan Sholl, Suresh I.S. Rattan, 2020-08-28 This edited volume aims to better understand the multifaceted phenomenon we call health Going beyond simple views of health as the absence of disease or as complete well being this book unites scientists and philosophers The contributions clarify the links between health and adaptation robustness resilience or dynamic homeostasis and discuss how to achieve health and healthy aging through practices such as hormesis The book is divided into three parts and a conclusion the first part explains health from within specific disciplines the second part explores health from the perspective of a bodily part system function or even the environment in which organisms live and the final part looks at more clinical or practical perspectives It thereby gathers across 30 chapters diverse perspectives from the broad fields of evolutionary and systems biology immunology and biogerontology more specific areas such as odontology cardiology neurology and public health as well as philosophical reflections on mental health sexuality authenticity and medical theories The overarching aim is to inform inspire and encourage intellectuals from various disciplines to assess whether explanations in these disparate fields and across biological levels can be sufficiently systematized and unified to clarify the complexity of health It will be particularly useful for medical graduates philosophy graduates and research professionals in the life sciences and general medicine as well as for upper level graduate philosophy of science students **The Transhumanism**

Handbook Newton Lee, 2019-07-03 Modern humanity with some 5 000 years of recorded history has been experiencing growing pains with no end in sight It is high time for humanity to grow up and to transcend itself by embracing transhumanism Transhumanism offers the most inclusive ideology for all ethnicities and races the religious and the atheists conservatives and liberals the young and the old regardless of socioeconomic status gender identity or any other individual qualities This book expounds on contemporary views and practical advice from more than 70 transhumanists Astronaut Neil Armstrong said on the Apollo 11 moon landing in 1969 One small step for a man one giant leap for mankind Transhumanism is the next logical step in the evolution of humankind and it is the existential solution to the long term survival of the human race **The Biopolitics of Human Enhancement** James J. Hughes, Steven Umbrello, Cristiano Calì, 2025-02-17 The study of the social implications of human enhancement is an interdisciplinary work that draws from the fields of political science

sociology philosophy and bioethics among others It is also a complex and rapidly evolving subject that raises important questions about the potential benefits and risks of these technologies as well as how society should govern and regulate their development and use An in depth exploration of current and future human enhancement technologies this book delves into the specifics of current and emerging human enhancement technologies such as cognitive enhancers brain computer interfaces and genetic engineering discussing the state of the art the limitations and also the technological developments that one can expect in the future and how they can be regulated and used responsibly

Anti-aging Drugs Alexander M Vaiserman,2017-02-01 Aging is a natural phenomenon that is peculiar to all living things However accumulating findings indicate that senescence could be postponed or prevented by certain approaches Substantial evidence has emerged supporting the possibility of radical human health and lifespan extension in particular through pharmacological modulation of aging A number of natural dietary ingredients and synthetic drugs have been assumed to have geroprotective potential In the development of anti aging therapeutics several cell insect and animal models may provide useful starting points prior to human studies This book provides an overview of current research aimed to search for life extending medications and describes pharmacological aspects of anti aging medicine Readers are introduced to the fascinating historical background of geroprotection in the first chapter In depth information on models for investigating geroprotective drugs precedes a section covering anti aging properties of pharmaceutical compounds such as calorie restriction mimetics autophagy inducers senolytics and mitochondrial antioxidants Finally strategies to translate discoveries from aging research into drugs and healthcare policy perspectives on anti ageing medicine are provided to give a complete picture of the field A timely and carefully edited collection of chapters by leading researchers in the field this book will be a fascinating and useful resource for pharmacologists gerontologists and any scientifically interested person wishing to know more about the current status of research into anti aging remedies challenges and opportunities

Brain and Mental Health in Ageing Gurcharan Kaur,Suresh I. S. Rattan,2024-09-11 This volume in the book series Healthy Ageing and Longevity focuses on the interaction and co dependence of the brain and mental health during ageing A wide range of topics discussed here include conceptual and historical understanding descriptive analyses and evidence based interventions for the maintenance enhancement and recovery of the brain and mental health especially in old age The emphasis is on the effective biological and psycho social lifestyle factors and complementary medicine and traditional cultural practices that could be health beneficial Potential readership includes the early stage and experienced researchers in biogerontology and cognitive sciences and college university teachers medical practitioners health care personnel and public educationists

Engineering, Social Sciences, and the Humanities Steen Hyldgaard Christensen,Anders Buch,Eddie Conlon,Christelle Didier,Carl Mitcham,Mike Murphy,2023-01-16 This book presents a critical examination of conversations between engineering social sciences and the humanities asking whether their conversations have come of age These conversations are important because ultimately their

outcome have real world consequences in engineering education and practice and for the social and material world we inhabit Taken together the 21 chapters provide scholarly argued responses to the following questions Why are these conversations important for engineering for social sciences and for the humanities Are there key places in practice in the curriculum and in institutions where these conversations can develop best What are the barriers to successful conversations What proposals can be made for deepening these conversations for the future How would we know that the conversations have come of age and who gets to decide The book appeals to scholarly audiences that come together through their work in engineering education and practice The chapters of the book probes and access the meetings and conversations and they explore new avenues for strengthening dialogues that transcend narrow disciplinary confines and divisions The volume offers a rich collection of descriptive resources and theoretical tools that will be useful for researchers of engineering practices and for those aiming to reshape the engineering lifeworld through new policies The book depicts the current state of the art of the most visible SSH contributions to shaping engineering practices as well as a map of research gaps and policy problems that still need to be explored Dr Ir Lavinia Marin TU Delft Electrical Engineering and Philosophy Age as Disease David-Jack Fletcher,2021-03-21 Age as Disease explores the foundations of gerontology as a discipline to examine the ways contemporary society constructs old age as a disease state Framed throughout as gerontological hygiene this book examines contemporary regimes strategies and treatment protocols deployed throughout Australia the United States and the United Kingdom The book deploys critical cultural theories such as biopolitics somatechnics ethics and governmentality to examine how anti aging technologies operate to problematise the aging body as always already diseased and how these come to constitute a movement of abolition named here as gerontological hygiene **Immunity** Alfred I. Tauber,2017 Machine generated contents note Preface Acknowledgements Introduction Chapter 1 A History of the Immune Self Chapter 2 Whither Immune Identity Chapter 3 Individuality Revised Chapter 4 Immune Cognition Chapter 5 Eco immunology Chapter 6 A New Biology Epilogue Endnotes References 650 *Technological Breakthroughs and Future Business Opportunities in Education, Health, and Outer Space* Hooke, Angus,2021-04-09 It is widely accepted that the key to rising incomes for workers for investors and indirectly for welfare recipients is innovation New ideas provide opportunities for investment in new products new processes and new markets Exploitation of these opportunities by intrapreneurs and entrepreneurs gives rise to increases in labor productivity which in turn lead to higher primary incomes for workers and investors and via government redistributive mechanisms larger transfers to welfare recipients Since technology is the driver of innovation and the key to the subsequent economic and distributional benefits of this innovation there is a need for researchers and businesspersons to have access to up to date information on emerging technologies and the business opportunities they provide Technological Breakthroughs and Future Business Opportunities in Education Health and Outer Space discusses the economic social and cultural benefits that new technologies can provide in multidisciplinary industries with a unique

emphasis on looking towards the impacts of these technologies across the next two decades Within this theme the book discusses the recent trends future developments and business opportunities surrounding new technologies including information technology and biotechnology Additionally the book investigates recent demands and disruptions in the health and education sectors as well as recent developments and forthcoming opportunities in the outer space sector and how newer technologies can enable and meet the growing demands of these industries While covering all these technologies and their applications this book is an ideal reference work for entrepreneurs and intrapreneurs teachers technologists analysts IT specialists engineers policymakers medical professionals government officials space agencies financial planners public officials and researchers and students working in areas that include but are not limited to technology education public health medicine business and management aeronautics and public policy

Microbial Vitamins and Carotenoids in Food Biotechnology Syed Amir Ashraf, Mohammed Kuddus, 2024-05-06 In recent years there has been a global surge in the production and application of vitamins and pigments in food and pharmaceuticals industries leading to draw the attention of scientific communities to develop novel strategies to cope with world demand Microbial vitamins and carotenoids in food biotechnology Novel source and potential applications allow the audience to understand the current status of the biotechnological approaches used for the production of vitamins and carotenoids from microorganisms The title provides important insights to understand the molecular mechanisms involved in microbial biosynthesis of vitamins and carotenoids The chapters all written by leading researchers from academia help to put forward all the latest advancement concerning the production and applications of microbial vitamins and carotenoids The book also provides the sustainable alternative to chemically synthesized compound and presents the wide coverage for the most promising sources of vitamins and carotenoids in food and pharmaceutical industries This is a complete and unique resource beneficial for the scientific communities as well as food science and nutrition research students Thoroughly explores biotechnological approaches surrounding the production and application of microbial vitamins and carotenoids in food processing and manufacturing industries Covers the major portion of novel source and various biotechnological approaches used for the production of various types of vitamins and carotenoids from microorganisms and their applications in food industry Contains up to date information required for the formulations of new products or protocols for enhancing production of specific compounds

Nutrition and Acne Vulgaris Esraa M. AlEdani, Howard I. Maibach, 2025-04-24 This book is an authoritative and comprehensive volume that is dedicated to the role of diet and the effect of nutrition on adolescent and adult acne This book provides up to date information and synopsis about the mechanism of diet and how it leads to acne formation and inflammation Chapters address the effectiveness of nutrition on acne vulgaris and the role of each diet component and its mechanism on acne exacerbation and inflammation For example how specific diet like dairy products increase acne formation while others like vegans and leafy greens mitigate acne formation The last chapter of this book discuss other minor

nutritional triggers that affect acne or other triggers like environmental bad habits bad hygiene etc Nutrition and Acne Vulgaris A Concise Guide to the Effects of Diet on Adolescent and Adult Acne is a valuable resource for dermatologists and allied healthcare individuals

Virtual Immortality - God, Evolution, and the Singularity in Post- and Transhumanism Oliver Krüger, 2021-10-01 In recent years ideas of post and transhumanism have been popularized by novels TV series and Hollywood movies According to this radical perspective humankind and all biological life have become obsolete Traditional forms of life are inefficient at processing information and inept at crossing the high frontier outer space While humankind can expect to be replaced by their own artificial progeny posthumanists assume that they will become an immortal part of a transcendent superintelligence Krüger's award winning study examines the historical and philosophical context of these futuristic promises by Ray Kurzweil Nick Bostrom Frank Tipler and other posthumanist thinkers

Encyclopedia of Biomedical Gerontology, 2019-11-20 Encyclopedia of Biomedical Gerontology Three Volume Set presents a wide range of topics ranging from what happens in the body during aging the reasons and mechanisms relating to those age related changes and their clinical psychological and social modulators and determinants The book covers the biological and medical aspects of gerontology within the general framework of the biological basis of assessing age biological mechanisms of aging age related changes in biological systems human age related diseases the biomedical practicality and impracticality of interventions and finally the ethics of intervention Provides a one stop resource to information written by world leading scholars in the field of biomedical gerontology Fills a critical gap of information in a field that has seen significant progress in the last 10 years

Nutrition, Food and Diet in Ageing and Longevity Suresh I. S. Rattan, Gurcharan Kaur, 2021-10-03 This edited volume is a compilation of 30 articles discussing what constitutes food for health and longevity The aim is to provide up to date information insights and future tendencies in the ongoing scientific research about nutritional components food habits and dietary patterns in different cultures The health sustaining and health promoting effects of food are certainly founded in its overall composition of macronutrients and micronutrients However the consumption of these nutrients is normally in the form of raw or prepared food from the animal and plant sources The book is divided into four parts and a conclusion and successfully convenes the well established information and knowledge along with the personal views of a diversified group of researchers and academicians on the multifaceted aspects of nutrition food and diet The first part reviews the scientific information about proteins carbohydrates fats and oils micronutrients pro and pre biotics and hormetins along with a discussion of the evolutionary principles and constraints about what is optimal food if any The second part discusses various kinds of foods and food supplements with respect to their claimed benefits for general health and prevention of some diseases The third part brings in the cultural aspects such as what are the principles of healthy eating according to the traditional Chinese and Indian systems what is the importance of meal times and daily rhythms and how different cultures have developed different folk wisdoms for eating for health longevity and immortality In

the part four various approaches which are either already in practice or are still in the testing and research phases are discussed and evaluated critically for example intermittent fasting and calorie restriction food based short peptides senolytics Ayurvedic compounds optimal food for old people and food for the prevention of obesity and other metabolic disorders The overreaching aim of this book is to inform inspire and encourage students researchers educators and medical health professionals thinking about food and food habits in a holistic context of our habits cultures and patterns Food cannot be reduced to a pill of nutritional components Eating food is a complex human behavior culturally evolved over thousands of years Perhaps the old adage we are what we eat needs to be modified to we eat what we are

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7 port torque injection engine producing 14 bhp at 7500 rpm and 12 nm at 6500 rpm it comes mated to a 5 speed gearbox and claims a top speed of 120 kmph the motorcycle weighs 115 kg and carries a 10.5 liters fuel tank

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