

## Ethics Of Performance Enhancement In Sport Drugs And Gene

*Edited by four leading members of the new generation of medical and healthcare ethicists working in the UK, respected worldwide for their work in medical ethics, Principles of Health Care Ethics, Second Edition is a standard resource for students, professionals, and academics wishing to understand current and future issues in healthcare ethics. With a distinguished international panel of contributors working at the leading edge of academia, this volume presents a comprehensive guide to the field, with state-of-the-art introductions to the wide range of topics in modern healthcare ethics, from consent to human rights, from utilitarianism to feminism, from the doctor-patient relationship to xenotransplantation. This volume is the Second Edition of the highly successful work edited by Professor Raanan Gillon, Emeritus Professor of Medical Ethics at Imperial College London and former editor of the Journal of Medical Ethics, the leading journal in this field. Developments from the First Edition include: The focus on 'Four Principles Method' is relaxed to cover more different methods in health care ethics. More material on new medical technologies is included, the coverage of issues on the doctor/patient relationship is expanded, and material on ethics and public health is brought together into a new section.*

*This book considers ethical arguments about performance enhancing drugs in sport in a global context. It examines: \* The forces that are bringing about the debate of ethical issues in performance enhancing drugs in sport \* The sources of ethical debates in different continents and countries \* The variation of ethical arguments in different cultural, political, ideological and sports systems. Whilst there has been a significant body of work that has looked at the importance of ethical issues in performance enhancing drugs in sport - there has been little, if any, consideration of the various ethical concepts in different countries and cultures involving sport. This is a major omission. This book fills the gap and provides a thorough review and analysis of the ethical literature on performance enhancing drugs in sport in the global society. It makes a major contribution to the worldwide anti-doping campaign in sport. This volume was previously published as a special issue of the journal Sport In Global Society.*

*The concept of soldier enhancement often invokes images of dystopian futures populated with dehumanized military personnel. These futures serve as warnings in science fiction works, and yet the enhancement of soldiers' combat capability is almost as old as war itself. Today, soldier enhancement is the purpose of military training and the application of innovative technologies, but when does it begin to challenge individuals' very humanity? Bringing together the work of a diverse group of practitioners and academics, Transhumanizing War examines performance enhancement in the military from a wide range of perspectives. The book builds on two key premises: that rapid advances in science and technology are outstripping governments' and military organizations' capacity to adapt, and that this has put pressure on the connection between the military and the public. The contributors to this collection grapple with the implications of continued technological advancement and the possibility that innovative solutions to performance enhancement will risk further alienating the soldier from society. Navigating the fine line between technological promise and ethics, this volume presents a guide to responsible implementation in Canada and abroad. Offering unique insights into a debate on the bleeding edge of public discourse, Transhumanizing War considers the best ways to improve combat effectiveness while still preserving soldiers' humanity.*

*Addressing both collegiate and professional sports, the updated edition of Fair Play: The Ethics of Sport explores the ethical presuppositions of competitive athletics and their connection both to ethical theory and to concrete moral dilemmas that arise in actual athletic competition. This fourth edition has been updated with new examples, including a discussion of Spygate by the New England Patriots and recent discoveries on the use of performance enhancing drugs by top athletes. Two additional authors, Cesar R. Torres and Peter F. Hager, bring to this edition a discussion of the moral issues involved in youth sports and the ethics of being a fan, as well as a fresh perspective on the theories of broad internalism and the quest for excellence. Furthermore, major criticisms of broad internalism by philosophers William J. Morgan and Scott Kretchmar add a new dimension to the discussion on the moral foundations of winning.*

*The Oxford Handbook of Bioethics*

*Athletic Enhancement, Human Nature and Ethics*

*Ethical and Policy Implications in International Perspectives*

*Sport, Ethics and Leadership*

*Genetically Modified Athletes*

*Ethical, Legal and Social Perspectives*

*Performance Enhancement and the Implications for Policy, Society, and the Soldier*

*Ethics in Sport, Third Edition, offers 32 essays by well-known authors. These essays explore the roots of the ethical and moral dilemmas so prevalent in sport culture today. Nearly half the essays are new to this edition.*

*Bonnie Steinbock presents the authoritative, state-of-the-art guide to current issues in bioethics, covering 30 topics in original essays by some of the world's leading figures in the field, as well as by some newer 'up-and-comers'. Anyone who wants to know how the central debates in bioethics have developed in recent years, and where the debates are going, will want to consult this book.*

*The book provides an in-depth discussion on the human nature concept from different perspectives and from different disciplines, analyzing its use in the doping debate and researching its normative overtones. The relation between natural talent and enhanced abilities is scrutinized within a proper conceptual and theoretical framework: is doping to be seen as a factor of the athlete's dehumanization or is it a tool to fulfill his/her aspirations to go faster, higher and stronger? Which characteristics make sports such a peculiar subject of ethical discussion and what are the, both intrinsic and extrinsic, moral dangers and opportunities involved in athletic enhancement? This volume combines fundamental philosophical anthropological reflection with applied ethics and socio-cultural and empirical approaches. Furthermore guidelines will be presented to decision- and policy-makers on local, national and international levels. Zooming in on the intrinsic issue of what is valuable about our homo sapiens biological condition, this volume devotes only scant attention to the specific issue of natural talent and why such talent is appreciated so differently than biotechnological origins of ability. In addition, specific aspects of sports such as its competitive nature and its direct display of bodily prowess provide good reason to single out the issue of natural athletic talent for sustained ethical scrutiny.*

*This book is a comprehensive resource on the history, theory, and practice of mindfulness in sport. The authors present their empirically-supported, six-session mindfulness program adapted for specific athletic populations.*

*Routledge Handbook of Drugs and Sport*

*The Ethics of Sports Technologies and Human Enhancement*

*The Ethics of Sports Coaching*

*The Nature of Performance*

*The Science and Ethics of Genetically Modified Athletes*

*Mindful Sport Performance Enhancement*

*Advances in genetics and related biotechnologies are having a profound effect on sport, raising important ethical*

*questions about the limits and possibilities of the human body. Drawing on real case studies and grounded in rigorous scientific evidence, this book offers an ethical critique of current practices and explores the intersection of genetics, ethics and sport. Written by two of the world's leading authorities on the ethics of biotechnology in sport, the book addresses the philosophical implications of the latest scientific developments and technological data. Distinguishing fact from popular myth and science fiction, it covers key topics such as the genetic basis of sport performance and the role of genetic testing in talent identification and development. Its ten chapters discuss current debates surrounding issues such as the shifting relationship between genetics, sports medicine and sports science, gene enhancement, gene transfer technology, doping and disability sport. The first book to be published on this important subject in more than a decade, this is fascinating reading for anyone with an interest in the ethics of sport, bioethics or sport performance.*

*There is a growing literature in neuroethics dealing with cognitive neuro-enhancement for healthy adults. However, discussions on this topic tend to focus on abstract theoretical positions while concrete policy proposals and detailed models are scarce. Furthermore, discussions appear to rely solely on data from the US or UK, while international perspectives are mostly non-existent. This volume fills this gap and addresses issues on cognitive enhancement comprehensively in three important ways: 1) it examines the conceptual implications stemming from competing points of view about the nature and goals of enhancement; 2) it addresses the ethical, social, and legal implications of neuroenhancement from an international and global perspective including contributions from scholars in Africa, Asia, Australia, Europe, North America, and South America; and 3) it discusses and analyzes concrete legal issues and policy options tailored to specific contexts.*

*The issue of doping has been the most widely discussed problem in sports ethics and is one of the most prominent issues across sports studies, the sports sciences and their constituent disciplines. This book adds uniquely to that catalogue of discourses by focusing on extant anti-doping policy and doping practices from a range of multi-disciplinary perspectives (specifically ethical, legal, and social scientific). With contributions from a world-class team of scholars and legal practitioners from the UK, Europe and North America, the book explores key contemporary issues such as: sports medicine international doping policy the whereabouts system the criminalization of doping privacy rights, gene doping and ethics imperfection in doping test procedures steroid use in the general population. Doping and Anti-Doping Policy in Sport offers an important critique of contemporary anti-doping policy and is essential reading for any advanced student, researcher or policy maker with an interest in this vital issue.*

*This BMA report discusses the current situation regarding performance enhancing drugs as well as the effects of prescribed medication on sports people's performance. Written with expert advice, and rigorously reviewed by specialists, the report addresses the physician's role and responsibilities in this highly sensitive area. It will prove an invaluable guide for all doctors who are involved with the well being of sports people.*

*Good Sport*

*Drugs In Sport*

*Principles of Health Care Ethics*

*The Pressure To Perform*

*Performance and Image Enhancing Drugs and Substances*

*Doping and Anti-Doping Policy in Sport*

*Theology, Ethics and Transcendence in Sports*

Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America's preeminent moral and political thinkers.

We humans can enhance some of our mental and physical abilities above the normal upper limits for our species with the use of particular drug therapies and medical procedures. We will be able to enhance many more of our abilities in more ways in the near future. Some commentators have welcomed the prospect of wide use of human enhancement technologies, while others have viewed it with alarm, and have made clear that they find human enhancement morally objectionable. The Ethics of Human Enhancement examines whether the reactions can be supported by articulated philosophical reasoning, or perhaps explained in terms of psychological influences on moral reasoning. An international team of ethicists refresh the debate with new ideas and arguments, making connections with scientific research and with related issues in moral philosophy.

The ethics of sports medicine is an important emerging area within biomedical ethics. The professionalization of medical support services in sport and continuing debates around issues such as performance-enhancing technologies or the health and welfare of athletes mean that all practitioners in sport, as well as researchers with an interest in sports ethics, need to develop a clear understanding of the ethical aspects of the sport-medicine nexus. This timely collection of articles explores the conceptual and practical issues that shape and define ethics in sports medicine. Examining central topics such as consent, confidentiality, pain, doping and genetic technology, this book establishes an important baseline for future academic and professional work in this area.

This book focuses attention on the range of unique ethical, legal, and related professional challenges faced by those who work

in the areas of sport, exercise, and performance psychology. Ethical Issues in Sport, Exercise, and Performance Psychology is organized into four sections: ethical practices, specific populations, special settings, and academic issues. Professionals in higher education, university counseling centers, sports medicine clinics, and in private practice, as well as students will find this book an informative personal resource.

Global Ethical Issues

What Everyone Needs to Know®

The Ethics of Sports Medicine

Fair Play

Essential Readings

Ethical, Conceptual, and Scientific Issues

Transhumanizing War

What is the nature of athletic performance? This book offers an answer to this fascinating question by considering the relationship between sport, technology and the body. Specifically, it examines cultural resistance to the enhancement of athletes and explores the ways in which performance technologies complicate and confound our conception of the sporting body. The book addresses concerns about the technological "invasion" of the "natural" body to investigate expectations that athletic performances reflect nothing more than the actual capacity of the untainted athlete. By examining a series of case studies, including Paralympic sprinter Oscar Pistorius, Fastskin swimsuits, hypoxic chambers and an array of illicit substances and methods, the book distinguishes between internal and external technologies to highlight the ways that performance enhancement, and public reaction to it, can be read. Sport, Technology and the Body offers a powerful challenge to conventional views of athletic performance that stand authenticity against artifice, integrity against corruption, and athletic purity against technological intrusion. It is essential reading for all serious students of the sociology, culture or ethics of sport.

This book provides an inter-disciplinary examination of the relationship between sport, spirituality and religion. It covers a wide-range of topics, such as prayer and sport, religious and spiritual perspectives on athletic identity and 'flow' in sport, theological analysis of genetic performance enhancement technologies, sectarianism in Scottish football, a spiritual understanding of sport psychology consultancy in English premier league soccer and how Zen may be useful in sports performance and participation. As modern sport is often intertwined with commercial and political agendas, this book also provides an important corrective to the "win at all costs" culture of modern sport, which cannot always be fully understood through secular ethical inquiry. This is a unique and important addition to the current literature for a wide-range of fields including theology and religious studies, psychology, health studies, ethics and sports studies. Sports are more than just "games". They can unite countries, start wars, and revolutionize views on race, class, and gender. Through works from philosophy, sociology, medicine, and law, this collection explores intersections of sports and ethics, and identifies the immense role of sports in shaping and reflecting social values

Doping has become one of the most important and high-profile issues in contemporary sport. Shocking cases such as that of Lance Armstrong and the US Postal cycling team have exposed the complicated relationships between athletes, teams, physicians, sports governing bodies, drugs providers, and judicial systems, all locked in a constant struggle for competitive advantage. The Routledge Handbook of Drugs and Sport is simply the most comprehensive and authoritative survey of social scientific research on this hugely important issue ever to be published. It presents an overview of key topics, problems, ideas, concepts and cases across seven thematic sections, which include chapters addressing: The history of doping in sport Philosophical approaches to understanding doping The development of anti-doping policy Studies of doping in seven major sports, including athletics, cycling, baseball and soccer In-depth analysis of four of the most prominent doping scandals in history, namely Ben Johnson, institutionalized doping in the former GDR, the 1998 Tour de France and Lance Armstrong WADA and the national anti-doping organizations Key contemporary debates around strict liability, the criminalization of doping, and zero tolerance versus harm reduction Doping outside of elite sport, in gyms, the military and the police. With contributions from many of the world's leading researchers into drugs and sport, this book is the perfect starting point for any advanced student, researcher, policy maker, coach or administrator looking to develop their understanding of an issue that has had, and will continue to have, a profound impact on the development of sport.

The Ethics of Human Enhancement

Sport, Medicine, Ethics

Genetic Technology and Sport

An Interdisciplinary Perspective

Ethics in Sport-3rd Edition

Altered Inheritance

Cognitive Enhancement

Advances in genetics have begun to deliver on their promise of new and improved approaches to the prevention and treatment of human disease, including the gene-based therapeutics. The international sports community has begun to recognize the potential harmful use of gene transfer technology by athletes. The task of monitoring and controlling sports doping must be a truly cooperative effort, involving the cooperation of a range of local, national, and international organizations. There are very serious broad social and ethical issues at stake that relate to our definition of sports and its role in our society, as well as the social and ethical principles that are challenged or breached through sport doping, determining which forms of performance enhancement – in sport or any other realm of human activity – are acceptable, and what makes the enhancement of sport performance different from enhancement in other areas of human activity (e.g., cosmetic surgery, mood and learning enhancement through drugs, and drug-based "treatment of physical and intellectual changes in normal aging process). This book

tackles all these issues and more, serving as the first such focused treatment of this increasingly important topic, which has broad-based implications for science, medicine, sports, and society.

The content of Human Performance Optimization is unique in terms of the focus, breadth, and scope of the individual chapter contributions. Moreover, this book was developed in response to a pressing need, first directed by the Chief of Staff of the Army, to examine current and future developments in behavioral, cognitive, and social neuroscience that may allow organizations to enhance individual worker and team performance. This volume captures a wide range of approaches, both with an eye to describing state of the art knowledge, and projecting what may become applicable in the near future. The variety of social, technological, and scientific issues make this book indispensable in our time. Organizations of all sorts, but especially those who operate in "in extremis" or high-stakes settings, are seeking to improve the performance of their workers. The chapters' breadth and accessibility will allow strategic leaders of organizations to evaluate breaking news in HPO, and will also serve as an up-to-date review of the field for scientists involved in human performance research.

"Why are some technologies such as fiberglass vaulting poles and hinged skates accepted in sport while performance-enhancing drugs are forbidden? Yes, performance-enhancing drugs are against the rules, but the people who play and govern sport create those rules; rules can be changed. Should we level the playing field by allowing all competitors to use drugs that allow them to run faster or longer, leap higher, or lift more? In this provocative exploration of what draws us to sport as participants and spectators, Good Sport argues that the values and meanings embedded within our games provide the guidance we need to make difficult decisions about fairness and performance-enhancing technologies. Good Sport reveals what we care about in sport. It describes how the reckless use of biomedical enhancements undermines those values. Implicit in sport's history, rules and practices are values and meanings that provide a sturdy foundation for an ethics of sport that celebrates natural talents and dedication. The way a sport adapts to innovations in equipment, tactics and players makes visible its values and meanings. Performance-enhancing drugs distort the connection between natural talents, the dedication to perfect those talents, and success in sport. Through understanding the fundamental role of values and meanings, we can see not just what we champion in the athletic arena but more broadly what we value in human achievement"--

The Ethics of Sports Technologies and Human Enhancement Routledge

Sport, Technology and the Body

Biomedical Ethics, Gene Doping and Sport

Proof by any reliable means

Theory, Issues, and Application

Tracing a Typology of Steroid Use

Bioethics, Genetics and Sport

Human Performance Optimization

***In the pursuit of more muscle, enhanced strength, sustained endurance and idealised physiques, an increasing number of elite athletes, recreational sport enthusiasts and body-conscious gym-users are turning to performance and image enhancing drugs and substances (PIEDS). In many instances, such use occurs with little regard for the health, social and economic consequences.? This book presents a nuanced, evidence-based examination of PIEDS. It provides a classification of PIEDS types, physical impacts, rates of use, user profiles, legal and sporting status, and remedial program interventions, covering both elite and recreational use. It offers the perfect guide to assist students, government policy makers and sport managers in understanding the complex issues surrounding PIEDS consumption.***

***Timely, accessible, and focused on practical application, Ethics of Sport & Athletics: Theory, Issues, and Applications, Second Edition, details the theories and mechanics of moral reasoning, ethical and unethical behavior in sport, and the development of moral education through sport. This well-organized, case-based approach to sport-related dilemmas teaches readers how to successfully apply moral reasoning skills in good decision making to ensure confidence in sports management. Extensively updated with real-world examples drawn from the latest sports headlines, this Second Edition is designed to help readers grapple with the many complicated ethical challenges they'll encounter in today's sports professions, including performance enhancement, violence in sports, and racial and gender discrimination. An expanded emphasis on applying knowledge and concepts in sport management further equips readers to confront specific scenarios, ultimately improving the overall moral integrity of sport without diminishing its competitive element.***

***This book is about gym culture, the pursuit of fit, muscular bodies and the use of drugs as a means to get there. Building on the international research literature and in-depth interviews with men who have experience of image and performance enhancing drugs (IPEDs), the book explores the fascination with muscles, motivations for using drugs to enhance them, assessments of risks, and experience of side effects. The book examines what the altered body does to the men's identity, self-image and relationships with peers and partners. Taking an evolutionary psychological approach, it also investigates the biological and psychological foundations of the fascination with the muscular body and discusses the notion of precarious manhood. Building on these analyses***

*the book considers the political and regulatory initiatives in place to prevent the use of IPEDs and assesses those strategies' potential to reach their aims. This is essential reading for anybody with an interest in the issue of drugs in sport, the ethics of sport, sociology of sport, sociology of the body, masculinity or public health.*

*Everybody involved in sport, from the bleachers to the boardroom, should develop an understanding of ethics. Sport ethics prompt discussion of the central principles and ideals by which we all live our lives, and effective leadership in sport is invariably ethical leadership. This fascinating new introduction to sport ethics outlines key ethical theories in the context of sport as well as the fundamentals of moral reasoning. It explores all the central ethical issues in contemporary sport: from violence, hazing, and gambling to performance enhancement, doping, and discrimination. This book not only investigates the ethical, social, and legal underpinnings of the most important issues in sport today, but also introduces the reader to the foundations of ethical leadership in sport and discusses which leadership strategies are most effective. Each chapter includes original real-world case studies, learning exercises, and questions to encourage students to reflect on the ethical problems presented. Sport, Ethics and Leadership is an essential resource for any course on sport and leisure studies, the ethics and philosophy of sport, or sport and leisure management.*

*CRISPR and the Ethics of Human Genome Editing*

*Doping in Sport*

*The Science and Ethics of Enhancing Human Capabilities*

*Human Performance Enhancement for NATO Military Operations (Science, Technology & Ethics).*

*Why Our Games Matter -- and how Doping Undermines Them*

*Gene Doping in Sports*

*Performance-Enhancing Drugs*

**Discusses the ethics of performance-enhancing drugs and includes articles on such topics as steroids in professional sports and prescription drugs used for academic enhancement.**

**Is the role of the sports coach simply to improve sporting performance? What are the key ethical issues in sports coaching practice? Despite the increasing sophistication of our understanding of the player-sport-coach relationship, the dominant perspective of the sports coach is still an instrumental one, focused almost exclusively on performance, achievement and competitive success. In this ground-breaking new book, leading sport scholars challenge that view, arguing that the coaching process is an inherently moral one with an inescapably ethical dimension, involving intense relationships between players and coaches. The Ethics of Sports Coaching critically examines this moral aspect, develops a powerful idea of what sports coaching ought to be, and argues strongly that coaches must be aware of the ethical implications of their acts. The book is structured around four central themes: the nature of coaching, the character of the coach, coaching specific populations and specific coaching contexts. It explores in detail many of the key ethical issues in contemporary sports coaching, including: coaching special populations the ethics of talent identification understanding the limits of performance enhancement coaching dangerous sports expatriate coaching setting professional standards in sports coaching. Combining powerful theoretical positions with clear insights into the everyday realities of sports coaching practice, this is an agenda-setting book. It is essential reading for all students, researchers and practitioners with an interest in sports coaching or the ethics and philosophy of sport.**

**Masterarbeit aus dem Jahr 2010 im Fachbereich Jura - Sonstiges, Note: B, University of Auckland, Sprache: Deutsch, Abstract: Unfortunately, sport nowadays does not always meet the idealized image of a clean competition. In too many cases, illegal performance enhancement, so called "doping," plays a dominant role in sports. This development might derive from the circumstance that sport is rather a business than an individual endeavour and self-realisation. Enormous amounts of money are involved in hosting events and marketing of athletes. However, increased doping actions may also result from the development and availability of various technical possibilities for performance enhancement. In the rather widespread field of doping, this paper focuses on the specific area of evidences on doping rule violations other than by so called "analytical positives." This paper concentrates on circumstantial, non-analytical and evidence by longitude profiling. Concluding from the number of decisions, these forms of evidence play an important role in the conviction of doping infractions. Circumstantial evidences, for example, inhabit crucial importance in cases where an analytical sample is not available. This refers to cases where, for instance, a doping offence is detected some time later and to cases where, with present laboratory techniques, the use of a substance or method in general is hard/ impossible to detect. Especially in the latter case, methods like longitude profiling of blood/urine may be more widely used in the long term. However, in non-analytical cases, authorities have to face the challenge that the principle of strict liability is not applicable, as in cases where the use of a prohibited substance is proven by the positive result of analytical laboratory tests. In this circumstance, strict liability means that the proof of knowledge or intent to use the substance is redundant. Furthermore, questions arise when the burden of proof is fulfilled in case of a dopin**

**The book aims to establish a critical dialogue between sports ethicists and bioethicists across the range of sporting disciplines at elite level. It will address questions such as: are the increasingly intrusive testing methods of elite sports compatible with the right to autonomy and privacy granted to patients in general medicine? could there be a moral obligation to correct injustices produced by the genetic lottery? how should the goals of sports medicine be viewed from the perspective of rationing scarce health care resources? This book was published as a special issue in Sport, Ethics and Philosophy.**

**Mental Training for Athletes and Coaches**

**Ethical Questions**

**Ethics of Sport and Athletics**

**Doping: Evidences beside the Analytical Positive**

**Towards a Social Science of Drugs in Sport**

## **Issues, Influences and Impacts**

### **The Ethics of Sport**

The debate around the role of drugs in sport is vibrant. There is a wealth of evidence from the hard end of science, telling us how drugs work, how drug testing works, and how many athletes have fallen foul of the system. The evidence from social science is still building momentum. For example, what makes an athlete use a performance enhancing substance? "To win" simply fails to explain the drug use behaviour we see among athletes. This book provides a foundation for anyone trying to understand the drugs in sport problem beyond the hard science by looking at the "people factor" from different perspectives. After building a case for the social science of drugs in sport, it is examined from the ethical, sociological, economic, legal and psychological points of view. The book concludes with a definitive statement about what researchers, policy makers, sports administrators, athletes and fans can do to achieve a social science of drugs in sport that puts people firmly in the centre of the debate. This volume was published as a special issue of *Sport in Society*.

This volume presents articles which focus on the ethical evaluation of performance-enhancing technologies in sport. The collection considers whether drug doping should be banned; the rationale of not banning ethically contested innovations such as hypoxic chambers; and the implications of the prospects of human genetic engineering for the notion of sport as a development of 'natural' talent towards human excellence. The essays demonstrate the significance of the principles of preventing harm, ensuring fairness and preserving meaning to appraise whether a particular performance enhancer is acceptable in the context of sport. Selected essays on various forms of human enhancement outside of sport that highlight other principles and concepts are included for comparative purpose. Sport enhancement provides a useful starting point to work through the ethics of enhancement in other human practices and endeavors, and sport enhancement ethics should track broader bioethical debates on human enhancement. As a whole, the volume points to the need to consider the values and meanings that people seek in a given sphere of human activity and their associated principles to arrive at a morally grounded and reasonable approach to enhancement ethics.

With the advent of CRISPR gene-editing technology, designer babies have become a reality. Françoise Baylis insists that scientists alone cannot decide the terms of this new era in human evolution. Members of the public, with diverse interests and perspectives, must have a role in determining our future as a species.

Will the genetic design of athletes destroy sport ... or will it lead to a new and extraordinary age of athletic achievement? Exploring a new territory in sport and ethics, this edited collection contains some of the best new writing that has emerged from the debates concerning the uses of genetic technologies to improve sport performance. Issues covered include: \* gene technology and sports ethics \* genetic testing in sports \* gene technology and the sporting ethos \* gene technology and gender equality in sport. This cutting-edge text is the first on the subject to analyze gender specific questions that arise from genetically modified sport and is likely to provoke further debate in the world of sport and bio-ethics. Contributors include Lincoln Allison, Ruth Chadwick, Arne Ljungqvist, Andy Miah, Christian Munthe, Bengt Saltin, Angela Schnieder and many more.

The Case against Perfection

Threats and Opportunities of Doping Technologies

Performance-Enhancing Technologies in Sports

Gym Culture, Identity and Performance-Enhancing Drugs

Understanding the Debate

Ethical Issues in Sport, Exercise, and Performance Psychology

**In a provocative analysis of sport ethics and human values, *Genetically Modified Athletes* imagines the brave new world of sport. The internationally acclaimed book examines this issue at a crucial time in its theorisation, questioning the very cornerstone of sporting and medical ethics, asking whether sporting authorities can, or even should, protect sport from genetic modification. This book brings together sport studies and bioethics to challenge our understanding of the values that define sport. We already allow that athletes can optimise their performance by the use of technologies; without wishing to assert that 'anything goes' in sports performance enhancement, Andy Miah argues that simply being human matters in sport and that genetic modification does not have to challenge this capacity. *Genetically Modified Athletes* includes examination of: \* the concept of 'good sport' and the definition of cheating \* the doped athlete - should we be more sympathetic? \* the role of the medical industry \* the usefulness (or not) of the terms 'doping' and 'anti-doping'. An important and growing field of interest, this book should be read by students, academics and practitioners. This book brings together an interdisciplinary group of experts in bioethics, sports, law, and philosophy to examine the need for regulating such athletic performance-enhancing technologies as steroids and gene doping. The use of performance-improving drugs in sports dates back to the early Olympians, who took an herbal tonic before competitions to augment athletic prowess. But the permissibility of doing so came into question only in the twentieth century as the popularity of anabolic steroid use and blood doping among athletes grew. Sports officials and others—aided by the development of technologies to test participants for proscribed substances—became concerned over the physical safety of athletes and competitive fairness in sporting events. In exploring the culture, ethics, and policy issues surrounding doping in competitive athletics, the contributors to this volume detail the history and current state of drug use in sports, analyze the distinctions between acceptable and unacceptable usages, evaluate the ethical arguments for and against permitting athletes to avail themselves of new means of improving athleticism, and discuss possible future doping technologies and the issues that they are likely to raise. They explain how and why some athletes resort to doping and assess what the fair opportunity principle means in theory and practice**

and how it relates to the concept of an equal opportunity to perform. This frank discussion of doping in sports includes accounts by former elite athletes and offers an illuminating exchange over the meaning and value of natural talents and genetic hierarchies and the essence of fair competition. We encourage children to play sports from an early age in order to instill in them such virtues as teamwork, perseverance, respect, fairness, and discipline, but, as perennial scandals in the headlines show us, sports also give rise to thorny ethical problems. Can the ugly, corrupt side of sports counteract their potential to deepen our moral lives and make a positive impact? This accessible book tackles a wide-ranging array of topics that arise in ethics of sport on every level, from amateur to professional, and from the general to the specific. Ethics of sport expert Robert Simon examines provocative, thorny questions throughout the book: Why do we care so much about sports? Do sports embody special values that social function views fail to grasp? Are such values good or bad? What counts as overemphasizing winning? Should winning be important in youth sports? What makes cheating in sports ethically objectionable? Is trash-talking cheating? How have performance enhancing drugs affected sport? Can we distinguish them from other advances that enhance performance, such as technological improvements in equipment? Should contact sports be modified to protect the health of athletes? Do organized athletics belong in schools? Don't athletic programs undermine academics in secondary and college education? Would it be better to separate sports and education, so schools focus on academics? Do sports undermine or reinforce gender equity? Why do so many elite athletes misbehave? How have professional sports affected minority groups and the underprivileged? Is money ruining elite sport? Simon's short exploration of the ethics of sports, which unfolds in this series' distinctive question-and-answer format, will interest sports enthusiasts, those who seek to understand the ethical controversies in sport even from an outsider's perspective, and students of applied ethics who need a primer on sports ethics in particular. Cognitive enhancement is the use of drugs, biotechnological strategies or other means by healthy individuals aiming at the improvement of cognitive functions such as vigilance, concentration or memory without any medical need. In particular, the use of pharmacological substances (caffeine, prescription drugs or illicit drugs) has received considerable attention during the last few years. Currently, however, little is known concerning the use of cognitive enhancers, their effects in healthy individuals and the place and function of cognitive enhancement in everyday life. The purpose of the book is to give an overview of the current research on cognitive enhancement and to provide in-depth insights into the interdisciplinary debate on cognitive enhancement.