

S Series Brevini

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Veterinary Embryology, 2nd Edition, has been updated to reflect the many changes that have developed in the field; the text has been fully revised and expanded and is now in full colour and many pedagogical features and a companion website have been developed. A new edition of this highly successful student textbook, updated to reflect the latest developments in the field of embryology, with the inclusion of four new chapters Written by a team of authors with extensive experience of teaching this subject Short concise chapters on key topics describe complex concepts in a user-friendly way Additional tables, flow diagrams and numerous hand-drawn illustrations support the concepts presented in the text

This book contains the proceedings of the first International Meeting on Mammalian Embryo Genomics, held in Quebec City, Canada, on July 20, 2002, which brought together a group of internationally recognised scientists in the genomics field. The objective was to coordinate activities in the field.

Principles of Cloning, Second Edition is the fully revised edition of the authoritative book on the science of cloning. The book presents the basic biological mechanisms of how cloning works and progresses to discuss current and potential applications in basic biology, agriculture, biotechnology, and medicine. Beginning with the history and theory behind cloning, the book goes on to examine methods of micromanipulation, nuclear transfer, genetic modification, and pregnancy and neonatal care of cloned animals. The cloning of various species—including mice, sheep, cattle, and non-mammals—is considered as well. The Editors have been involved in a number of breakthroughs using cloning technique, including the first demonstration that cloning works in differentiated cells done by the Recipient of the 2012 Nobel Prize for Physiology or Medicine – Dr John Gurdon; the cloning of the first mammal from a somatic cell – Drs Keith Campbell and Ian Wilmut; the demonstration that cloning can reset the biological clock - Drs Michael West and Robert Lanza; the demonstration that a terminally differentiated cell can give rise to a whole new individual – Dr Rudolf Jaenisch and the cloning of the first transgenic bovine from a differentiated cell – Dr Jose Cibelli. The majority of the contributing authors are the principal investigators on each of the animal species cloned to date and are expertly qualified to present the state-of-the-art information in their respective areas. First and most comprehensive book on animal cloning, 100% revised Describes an in-depth analysis of current limitations of the technology and research areas to explore Offers cloning applications on basic biology, agriculture, biotechnology, and medicine

Eine vergleichende Analyse europäischer Rundfunksysteme

Molecular Mechanisms and Cytogenetic Diversity

Quality Control of Mammalian Oocyte Meiotic Maturation: Causes, Molecular Mechanisms and Solutions

Next Generation Culture Platforms for Reliable In Vitro Models

Fetal Stem Cells in Regenerative Medicine

Eureka

Journalism in the Data Age

Taking a political economy of media approach, this book examines Amazon as a significant actor in the global media landscape. Amazon is mainly conceived in the popular consciousness and media commentary as a corporate body, selling products and services to individual consumers and organisations, but Brevini and Swiatek show that Amazon has become a communication giant that trades in diversified media (its own and others), and exerts a significant influence on global communication, especially through its online services. Further, the authors provide evidence of Amazon's multiple influences on politics, economics, and culture. With its comprehensive and critical overview, this book is ideal for students, scholars, and researchers of media and communication studies and political economy.

Written by an international team of experts, SomaticGenome Variation presents a timely summary of the latest understanding of somatic genome development and variation in plants, animals, and microorganisms. Wide-ranging in coverage, the authors provide an updated view of somatic genomes and genetic theories while also offering interpretations of somatic genome variation. The text provides geneticists, bioinformaticians, biologist, plant scientists, crop scientists, and microbiologists with a valuable overview of this fascinating field of research.

New techniques in cellular and molecular biology have increased our understanding of the mechanisms controlling reproductive function in the female. Emphasizing these new techniques, Molecular Biology of the Female Reproductive System provides a state-of-the-art review of local regulatory mechanisms that control reproductive processes. Stressing the interface of endocrinology, immunology, and cell biology, this book concentrates on the autocrine, paracrine, and endocrine systems that regulate both the functions of the ovary and uterus and the interaction between the early embryo and the mother. Covers the mechanisms controlling reproductive function in the female Offers a cellular and molecular approach to the control of reproductive function Focuses on the ovary and uterus, and includes a discussion of the early embryo, including Hormonal control of folliculogenesis and luteal function Cell-cell interactions in the follicle Role of cytokines in regulating steroid and protein hormone production Endocrine receptors and mechanisms in ovulation Cell biology of the oviduct and uterus Migratory cells Paracrine regulation Hormones of the trophectoderm and early placenta Interaction between trophectoderm and endometrium Provides extensive references

This detailed book collects original protocols aimed at encouraging and stimulating the scientific community to design and produce models for the laboratory that mimic cell guidance conditions as

they occur *in vivo*. The protocols collected describe powerful strategies to exploit chemical cues involved in cell differentiation processes. Special emphasis is given to the use of methods for purification and characterization of exosomes and other secreted vesicles, as well as micro and non-coding RNAs, that have been demonstrated to control the tuning of the *in vivo* micro and macro environment in order to ensure the optimal soluble environment *in vitro*. Written for the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Next Generation Culture Platforms for Reliable In Vitro Models: Methods and Protocols* serves as an ideal guide for researchers working toward developing these vital testing models for preclinical studies.

Digital Multimedia: Concepts, Methodologies, Tools, and Applications

Laboratory Production of Cattle Embryos

Public Value-Konzepte im öffentlichen Rundfunk

Implications for the Future of Communications, Journalism and Society

in Animals, Plants, and Microorganisms

Principles of Cloning

Principles of Tissue Engineering

We are entering a new era of technological determinism and solutionism in which governments and business actors are seeking data-driven change, assuming that Artificial Intelligence is now inevitable and ubiquitous. But we have not even started asking the right questions, let alone developed an understanding of the consequences. Urgently needed is debate that asks and answers fundamental questions about power. This book brings together critical interrogations of what constitutes AI, its impact and its inequalities in order to offer an analysis of what it means for AI to deliver benefits for everyone. The book is structured in three parts: Part 1, AI: Humans vs. Machines, presents critical perspectives on human-machine dualism. Part 2, Discourses and Myths About AI, excavates metaphors and policies to ask normative questions about what is 'desirable' AI and what conditions make this possible. Part 3, AI Power and Inequalities, discusses how the implementation of AI creates important challenges that urgently need to be addressed. Bringing together scholars from diverse disciplinary backgrounds and regional contexts, this book offers a vital intervention on one of the most hyped concepts of our times. Now in its fourth edition, Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade. The fourth edition provides an update on this rapidly progressing field, combining the prerequisites for a general understanding of tissue growth and development, the tools and theoretical information needed to design tissues and organs, as well as a presentation by the world's experts of what is currently known about each specific organ system. As in previous editions, this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering, including biology, chemistry, material science, and engineering, among others, while also emphasizing those research areas that are likely to be of clinical value in the future. This edition includes greatly expanded focus on stem cells, including induced pluripotent stem (iPS) cells, stem cell niches, and blood components from stem cells. This research has already produced applications in disease modeling, toxicity testing, drug development, and clinical therapies. This up-to-date coverage of stem cell biology and other emerging technologies –such as brain-machine interfaces for controlling bionics and neuroprostheses– is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering, as well as a new section on the application of tissue-engineering techniques for food production. The result is a comprehensive textbook that will be useful to students and experts alike. Includes new chapters on biomaterial-protein interactions, nanocomposite and three-dimensional scaffolds, skin substitutes, spinal cord, vision enhancement, and heart valves. Offers expanded coverage of adult and embryonic stem cells of the cardiovascular, hematopoietic, musculoskeletal, nervous, and other organ systems. Full-color presentation throughout.

This book is your guide to understanding what journalism is and could be in an age of digital technology and datafication. Journalism today is entwined with the digital. Stories can come from crowdsourcing and content farms. They can incorporate data visualisations and virtual reality. Journalists can find themselves working as self-employed digital entrepreneurs or for tech giants like Google and Facebook. This book explores the development of journalism in this era of digital tech, and big and open data. It explores the crucial new developments of online journalism, data journalism, computational journalism and entrepreneurial journalism, and what this means for our understanding of journalism as a profession, and as a part of society. Using a wealth of international case studies, Jingrong Tong explores contemporary issues such as: AI, Automated news, 'robot reporters', and algorithmic accountability. Digital business models, from venture capital to tech start-ups to crowd-funding. Audiences and dissemination in an age of platform capitalism. Questions of censorship, democracy and state control. Digital challenges to journalistic autonomy and legitimacy. With clear explanations throughout, Journalism in the Data Age introduces you to a range of ideas, debates and key concepts. It is essential reading for all students of journalism. Dr Jingrong Tong is Senior Lecturer in Digital News Cultures at the University of Sheffield.

Every day, corporations are connecting the dots about our personal behavior—silently

scrutinizing clues left behind by our work habits and Internet use. But who connects the dots about what firms are doing with all this information? Frank Pasquale exposes how powerful interests abuse secrecy for profit and explains ways to rein them in.

Environmental Stress and Amelioration in Livestock Production

Biological Resource Management in Agriculture Mammalian Embryo Genomics

Biology and Pathology of the Oocyte

Animal Biotechnology 1

Molecular Biology of the Female Reproductive System

Future Trends in Laboratory and Clinical Practice

Rabbit genomics, transgenesis, cloning and models

Our knowledge of reproductive biology has increased enormously in recent years on cellular, molecular, and genetic levels, leading to significant breakthroughs that have directly benefitted in vitro fertilization (IVF) and other assisted reproductive technologies (ART) in humans and animal systems. Animal Models and Human Reproduction presents a comprehensive reference that reflects the latest scientific research being done in human reproductive biology utilizing domestic animal models. Chapters on canine, equine, cow, pig, frog, and mouse models of reproduction reflect frontier research in placental biology, ovarian function and fertility, non-coding RNAs in gametogenesis, oocyte and embryo metabolism, fertilization, cryopreservation, signal transduction pathways, chromatin dynamics, epigenetics, reproductive aging, and inflammation. Chapters on non-human primate models also highlight recent advancements into such issues as human in vitro fertilization (IVF) and assisted reproductive technologies (ART). This book offers animal scientists, reproductive biology scientists, clinicians and practitioners, invaluable insights into a wide range of issues at the forefront of human reproductive health. Louis-Marie Houdebine and Jianglin Fan The study of biological functions of proteins and their possible roles in the pathogenesis of human diseases requires more and more relevant animal models. Although mice including genetically modified mice offer many possibilities, other non-murine species are absolutely required in some circumstances. Rabbit is one of these species, which has been widely used in biomedical studies. This animal is genetically and physiologically closer to humans including cardiovascular system and metabolism characteristics. Rabbit is thus more appropriate than mice to study some diseases such as atherosclerosis and lipid metabolism. Because of its larger size, surgery manipulation, bleeding, and turn-over studies are much easier performed in rabbits than in mice. Furthermore, transgenic rabbits can be produced using microinjection and other methods such as lentiviral vectors. Cloning in rabbits has been proved possible, even though still laborious and time-consuming. Hopefully, functional rabbit ES cell lines will be available in the coming years. Gene deletion or knock-out in rabbits will then become possible.

Meiosis, the process of forming gametes in preparation for sexual reproduction, has long been a focus of intense study. Meiosis has been studied at the cytological, genetic, molecular and cellular levels. Studies in model systems have revealed common underlying mechanisms while in parallel, studies in diverse organisms have revealed the incredible variation in meiotic mechanisms. This book brings together many of the diverse strands of investigation into this fascinating and challenging field of biology.

Encyclopedia of Biomedical Engineering is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering. Biomaterials, biomedical devices and techniques play a significant role in improving the quality of health care in the developed world. The book covers an extensive range of topics related to biomedical engineering, including biomaterials, sensors, medical devices, imaging modalities and imaging processing. In addition, applications of biomedical engineering, advances in cardiology, drug delivery, gene therapy, orthopedics, ophthalmology, sensing and tissue engineering are explored. This important reference work serves many groups working at the interface of the biological sciences and engineering, including engineering students, biological science students, clinicians, and industrial researchers. Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering, also incorporating perspectives from experts working within the domains of biomedicine, medical engineering, biology, chemistry, physics, electrical engineering, and more Contains reputable, multidisciplinary content from domain experts Presents a 'one-stop' resource for access to information written by world-leading scholars in the field

Meiosis

The Secret Algorithms That Control Money and Information

AI for Everyone?

Cell Biology and Translational Medicine, Volume 1

Role in Fertility, Medicine and Nuclear Reprogramming

The Production of Global Web Series in a Networked Age

This book offers a focused and practical guide to integrating the relationship between media and the environment—ecomedia—into media education. It enables media teachers to "green" their pedagogy by providing essential tools and approaches that can be applied in the classroom. Media are essential features of our planetary ecosystem emergency, contributing to both the problem of and solution to climate chaos, biodiversity loss, ocean acidification, deforestation, water contamination, and so on. Offering a clear theoretical framework and suggested curriculum guide, the book provides key resources that will enable media educators to apply ecomedia concepts to their curricula. By reconceptualizing media education, this book connects ecology, environmental communication, ecomedia studies, environmental humanities, and ecoliteracy to bridge media literacy and education for sustainability. Ecomedia Literacy is an essential read for educators and scholars in the areas of media literacy, media and communication, media and cultural studies, environmental humanities, and environmental studies.

This volume examines the role of communication in contributing to and contesting the current climate crisis. There is now widespread agreement that even if increases in carbon emissions are kept to the current international target the climate crisis will continue to intensify. This book brings together, for the first time, state-of-the-art research with activists' interventions to place debate around climate crisis within the wider conversation about the changing relations between communications and contemporary capitalism. Contributors include; Naomi Klein, Michael Mann, Alan Rusbridger, Vincent Mosco, Jodi Dean, and leading figures in Greenpeace and 350.org.

Stem cells have generated a lot of excitement among the researchers, clinicians and the public alike. Various types of stem cells are being evaluated for their regenerative potential. Marginal benefit resulting by transplanting autologous stem cells (deemed to be absolutely safe) in various clinical conditions has been proposed to be a growth factor effect rather than true regeneration. In contrast, various pre-clinical studies have been undertaken, using differentiated cells from embryonic stem cells or induced pluripotent stem cells have shown promise, functional improvement and no signs of teratoma formation. The scientists are not in a rush to reach the clinic but a handful of clinical studies have shown promise. This book is a collection of studies/reviews, beginning with an introduction to the pluripotent stem cells and covering various aspects like derivation, differentiation, ethics, etc., and hence would provide insight into the recent standing on the pluripotent stem cells biology. The chapters have been categorized into three sections, covering subjects ranging from the generation of pluripotent stem cells and various means of their derivation from embryonic as well as adult tissues, the mechanistic understanding of pluripotency and narrating the potential therapeutic implications of these in vitro generated cells in various diseases, in addition to the associated pros and cons in the same.

This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their applications in animal production. Also, ethics and legal aspects of animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This first volume mainly focuses on artificial insemination, embryo transfer technologies in diverse animal species and cryopreservation of oocytes and embryos.

Emerging Breeding Technologies

Rabbit Biotechnology

Ecomedia Literacy

Continental Europe

Concepts, Methodologies, Tools, and Applications

ScholarlyPaper

Advances in Centrosome Research and Application: 2011 Edition

3000 new references added since the first edition Gives information necessary to produce embryos totally through in vitro techniques Shows commercial applications of embryo and oocyte research Cattle remain at the forefront of many new developments in reproductive technology and what can be done for the cow today will later be applicable to other farm livestock and perhaps humans. This new edition reviews the considerable advances and issues in embryo production technology, based on reports since the first edition in 1994. This is a must have volume for those who own the first edition, and in itself an incredibly informative text.

Given the importance of livestock to the global economy, there is a substantial need for world-class reference material on the sustainable management of livestock in diverse eco-regions. With uncertain climates involving unpredictable extreme events (e.g., heat, drought, infectious disease), environmental stresses are becoming the most crucial factors affecting livestock productivity. By systematically and comprehensively addressing all aspects of environmental stresses and livestock productivity, this volume is a useful tool for understanding the various intricacies of stress physiology. With information and case studies collected and analyzed by professionals working in diversified ecological zones, this book explores the influence of the environment on livestock production across global biomes. The challenges the livestock industry faces in maintaining the delicate balance between animal welfare and production are also highlighted.

The 2010 release of US embassy diplomatic cables put WikiLeaks into the international spotlight. Revelations by the leaks sparked intense debate within international diplomacy, journalism and society. This book reflects on the implications of WikiLeaks across politics and media, and on the results of leak journalism and transparency activism.

This book tells the story of diverse online creators - women, ethnic and racial minorities, queer folk and those from hardscrabble backgrounds - producing low budget, high cultural impact web-series which have disrupted longstanding white male domination of the film and TV industries. Author Guy Healy addresses four burning problems faced by creators in the context of digital disruption (along with potential solutions), namely: the sustainability of monetizing digital content and the rising possibility of middle-class artistic careers; algorithmic volatility; the difficulty of finding people to share jealously guarded industry knowledge as traditional craft-based mentoring and expertise-sharing mechanisms break down; and the lack of diversity and authenticity in high-profile storytelling. It includes nine case studies, five drawn from a

second wave of outstanding YouTube-developed talent, transitioning to longer form narrative, most collaborating with established TV producers working across the divide between online and established television culture, and all from under-represented and/or minority backgrounds. The balance are film-school and industry professionals leveraging YouTube in the same way, including two Writers Guild of America new media award-winners. These storytellers leverage their social networks and chase sustainable careers by reaching audiences of subscription video-on-demand platforms and mainstream online broadcast in Australia and North America. The Production of Global Web-Series in a Networked Age is the first longitudinal study of this historic rapprochement between online and television cultures. Four of the cases are in Emmy-winning contexts, and one in an Emmy nominated context. Covering 2005–2021, the book reveals distinctive new forms of screen industry convergence with profound implications for creators' careers, the screen industry in general, new media theory, and broader cultural and social change. It is essential reading for students, academics and industry professionals working on the production and distribution of web series.

World Business Directory

Animal Biotechnology 2

Integrating Ecology into Media Education

Principles and Translational Strategies

The Black Box Society

Critical Perspectives

Animal Models and Human Reproduction

Much research has focused on the basic cellular and molecular biological aspects of stem cells. Much of this research has been fueled by their potential for use in regenerative medicine applications, which has in turn spurred growing numbers of translational and clinical studies. However, more work is needed if the potential is to be realized for improvement of the lives and well-being of patients with numerous diseases and conditions. With a goal to accelerate advances by timely information exchange, this new book series 'Cell Biology and Translational Medicine (CBTMED)' as part of SpringerNature's longstanding and very successful Advances in Experimental Medicine and Biology book series is launched. Emerging areas of regenerative medicine and translational aspects of stem cells will be covered in each volume. Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas. This current book is the first volume of a continuing series.

This book explores the regenerative properties of fetal stem cells, from fetomaternal cell traffic through perinatal stem cells, with a discussion of key topics including stem cell banking, drug screening, in utero stem cell transplantation and ethical considerations. The expertly authored chapters also delve into embryonic, amniotic membrane, and umbilical cord blood stem cells; fetal development models; fetal cell reprogramming; culture methods; disease models; perinatal gene therapy, and more. These chapters are grouped into four sections, each discussing a separate prenatal stem cell population and providing fascinating historical contexts for our knowledge of these systems. Featuring a foreword written by the renowned Dr. Joseph Vacanti of the Harvard Stem Cell Institute, Fetal Stem Cells in Regenerative Medicine: Principles and Translational Strategies is a welcome and timely contribution to the Stem Cell Biology and Regenerative Medicine series. It is essential reading for scientists and researchers, clinicians and residents, and advanced students involved in stem cells, regenerative medicine, tissue engineering, and related disciplines such as embryology.

This new edition covers the development, biology and pathology of the oocyte, and technologies to manipulate, enhance and control fertility.

Eureka! Is AI Good for the Planet? Polity

Beyond WikiLeaks

Engineering

Carbon Capitalism and Communication

Stem Cells and Therapy: Emerging Approaches

Understanding a Global Communication Giant

Stem Cells in Regenerative Medicine: Advances and Challenges

Who Owns Whom

Epigenetics and Regeneration compiles the first foundational reference on epigenetic mechanisms governing tissue development, repair, homeostasis, and regeneration, as well as pathways to employ these mechanisms in clinical practice and translational science. In this book, life science researchers, clinicians, and students will discover an interdisciplinary resource bringing together common themes in the field, background overviews, research methods, recent advances, and opportunities for drug discovery. Throughout this volume, special attention is paid to pre-clinical and first clinical studies aimed at increasing the regenerative potential of damaged tissues by epigenetic drugs, as well as innovative, discipline spanning strategies to enhance cell reprogramming. As an all-inclusive, evidence-based volume, Epigenetics and Regeneration will stimulate discussion and boost new research in this fascinating and impactful area of translational epigenetics. Provides a foundational overview of epigenetics in regenerative medicine Examines epigenetic components of tissue regeneration for a variety of organ systems and tissue types, as well as current attempts to employ these mechanisms in clinical practice Offers researchers, students, clinicians, and pharmacologists the tools they need to enhance tissue development, repair, homeostasis, and regeneration and explore new epigenetic therapeutic pathways Features chapter contributions from leading international researchers and clinicians in the fields of epigenetics and regenerative medicine

Much research has focused on the basic cellular and molecular biological aspects of stem cells. Much of this research has been fueled by their potential for use in regenerative medicine applications, which has in turn spurred growing numbers of translational and clinical studies. However, more work is needed if the potential is to be realized for improvement of the lives and well-being of patients with numerous diseases and conditions. This book series 'Cell Biology and Translational Medicine (CBTMED)' as part of SpringerNature's longstanding and very successful Advances in Experimental Medicine and Biology book series, has the goal to accelerate advances by timely information exchange. Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume. Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas. This current book is the seventh volume of a continuing series. Chapter "Application of iPSC to Modelling of Respiratory Diseases" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Human Assisted Reproductive Technology: Future Trends in Laboratory and Clinical Practice offers a collection of concise, practical review articles on cutting-edge topics within reproductive medicine. Each article presents a balanced view of clinically relevant information and looks ahead to how practice will change over the next five years. The clinical section discusses advances in reproductive surgery and current use of robotic surgery for tubal reversal and removal of fibroids. It looks into the refinement of

surgical procedures for fertility preservation purposes. Chapters also discuss non-invasive diagnosis of endometriosis with proteomics technology, new concepts in ovarian stimulation and in the management of polycystic ovary syndrome, and evidence-based ART. The embryology section discusses issues ranging from three-dimensional in-vitro ovarian follicle culture, and morphometric and proteomics analysis of embryos, to oocyte and embryo cryopreservation. This forward-looking volume of review articles is key reading for reproductive medicine physicians, gynecologists, reproductive endocrinologists, urologists and andrologists.

Contemporary society resides in an age of ubiquitous technology. With the consistent creation and wide availability of multimedia content, it has become imperative to remain updated on the latest trends and applications in this field. Digital Multimedia: Concepts, Methodologies, Tools, and Applications is an innovative source of scholarly content on the latest trends, perspectives, techniques, and implementations of multimedia technologies. Including a comprehensive range of topics such as interactive media, mobile technology, and data management, this multi-volume book is an ideal reference source for engineers, professionals, students, academics, and researchers seeking emerging information on digital multimedia.

Cell Biology and Translational Medicine, Volume 7

Amazon

Veterinary Embryology

Human Assisted Reproductive Technology

Pluripotent Stem Cells

AJM.

Somatic Genome Variation

Christiana Gransow untersucht anhand von zehn Rundfunksystemen die Implementierungen des Public-Value-Tests. Der Vergleich zeigt, sobald ein Regulierungsmechanismus besteht, der die Angebote der öffentlichen Medienanbieter auf deren Beitrag zur Erbringung des gesetzlichen Auftrags untersucht, wird der Umfang des gesetzlichen Auftrags im Hinblick auf die Onlineangebote und -aktivitäten bewusst weit vom Gesetzgeber gefasst. Die qualitative Untersuchung legt offen, dass lediglich 8 der analysierten Mediensysteme eine Form des Ex-ante-Tests umsetzten und wiederum nur 6 Fallbeispiele das Prüfverfahren anwandten, die allerdings nicht frei von Mängeln sind. Nicht nur das Ausführen erweist sich als schwierig, sondern auch das Bestimmen des Schlüsselbegriffs Public Value stellt eine Herausforderung dar. Entlang von institutionellen sowie organisatorischen Kriterien formuliert die Autorin ein Vergleichsmodell der einzelnen Public Value-Tests.

Artificial intelligence (AI) is presented as a solution to the greatest challenges of our time: from global pandemics and chronic diseases to cyber security threats and, of course, the climate crisis. But we should think about AI in a different and more material way: running on technology that depletes scarce resources and relying on data centres that demand excessive energy use, AI is also contributing to the climate crisis. Collectively, these processes involve extensive energy consumption and the burning of fossil fuels that make the climate crisis worse. For the first time, *Is AI Good for the Planet?* brings the climate crisis to the centre of debates around AI, exposing its environmental costs and forcing us to reconsider the way we look at it. Powerfully written, this book reveals how we should no longer ignore the environmental problems generated by AI. Instead, embracing a green agenda for AI that puts the climate crisis at centre stage is our urgent priority. Written in a clear and accessible style, and underpinned by research and wide-ranging international examples, this book is essential reading for scholars and students of artificial intelligence, environmental studies, politics, and media studies, as well as general readers interested in the connections between technology and the environment.

This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their applications in animal production. Also, ethics and legal aspects of animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This second volume is dedicated to genetic tools in animal biotechnology such as somatic cloning, transgenic technologies and the application of stem cells in livestock breeding. Also, ethics and legal aspects are discussed.

Encyclopedia of Biomedical Engineering

Methods and Protocols

Epigenetics and Regeneration

Confronting Climate Crisis

Australian Journal of Mining

Reproductive Biotechnologies

Is AI Good for the Planet?