

## 2018 European Meeting Of Ismpp Prospectus

Microbial communities and their multi-functionalities play a crucial role in the management of soil and plant health, and thus help in managing agro-ecology, the environment and agriculture. Microorganisms are key players in N-fixation, nutrient acquisition, carbon sequestration, plant growth promotion, pathogen suppression, induced systemic resistance and tolerance against stresses, and these parameters are used as indicators of improved crop productivity and sustainable soil health. Beneficial belowground microbial interactions in the rhizosphere help plants combat abiotic challenges in the unfavourable environmental conditions of native soils. These microorganisms and their products offer potential solutions for agriculture in problematic areas since they are able to degrade xenobiotic compounds, pesticides and toxic chemicals and help remediate heavy metals in the rhizosphere and so make deteriorated soils suitable for crop production. This book compiles the latest research on the role of microbes in the rhizosphere and agro-ecology, covering interaction mechanisms, microbe-mediated crop production, plant and soil health management, food and nutrition, nutrient recycling, land reclamation, clean water systems, agro-waste management, biodegradation, bioremediation, biomass and bioenergy, sanitation and rural livelihood security. It is a comprehensive reference resource for agricultural activists, policymakers, environmentalists and advisors working for governments, non-governmental organizations and industries, helping them update their knowledge of this important, but often neglected, research area.

Ghost-Managed Medicine  
Big Pharma's Invisible Hands  
Central Nervous System Metastases  
Springer Nature

Research on human beings saves countless lives, but has at times harmed the participants. To what degree then should government regulate science, and how? The horrors of Nazi concentration camp experiments and the egregious Tuskegee syphilis study led the US government, in 1974, to establish Research Ethics Committees, known as Institutional Review Boards (IRBs) to oversee research on humans. The US now has over 4,000 IRBs, which examine yearly tens of billions of dollars of research -- all studies on people involving diseases, from cancer to autism, and behavior. Yet ethical violations persist. At the same time, critics have increasingly attacked these committees for delaying or blocking important studies. Partly, science is changing, and the current system has not kept up. Since the regulations were first conceived 40 years ago, research has burgeoned 30-fold. Studies often now include not a single university, but multiple institutions, and 40 separate IRBs thus need to approve a single project. One committee might approve a study quickly, while others require major changes, altering the scientific design, and making the comparison of data between sites difficult. Crucial dilemmas thus emerge of whether the current system should be changed, and if so, how. Yet we must first understand the status quo to know how to improve it. Unfortunately, these committees operate behind closed doors, and have received relatively little in-depth investigation. Robert Klitzman thus interviewed 45 IRB leaders and members about how they make decisions. What he heard consistently surprised him. This book reveals what Klitzman learned, providing rare glimpses into the conflicts and complexities these individuals face, defining science, assessing possible future risks and benefits of studies, and deciding how much to trust researchers -- illuminating, more broadly, how we view and interpret ethics in our lives today, and perceive and use power. These committees reflect many of the most vital tensions of our time - concerning science and human values, individual freedom, government control, and industry greed. Ultimately, as patients, scientists, or subjects, the decisions of these men and women affect us all.

"Essentials in Ophthalmology" is a new review series covering all of ophthalmology categorized in eight subspecialties. It will be published quarterly, thus each subspecialty will be reviewed biannually. Given the multiplicity of medical publications already available, why is a new series needed? Consider that the half-life of medical knowledge is estimated to be around 5 years. Moreover, it can be as long as 8 years between the first description of a medical innovation in a peer-reviewed scientific journal and publication in a medical textbook. A series that narrows this time span between journal and textbook would provide a more rapid and efficient transfer of medical knowledge into clinical practice, and enhance care of our patients.

This book reports on the current global status of mungbean and its economic importance. Mungbean (*Vigna radiata*)—also called green gram—is an important food and cash crop in the rice-based farming systems of South and Southeast Asia, but is also grown in other parts of the world. Its short duration, low input requirement and high global demand make mungbean an ideal rotation crop for smallholder farmers. The book describes mungbean collections maintained by various organizations and their utilization, especially with regard to adapting mungbean to new environments. It provides an overview of the progress made in breeding for tolerance to biotic and abiotic stresses; nutritional quality enhancement including genomics approaches; and outlines future challenges for mungbean cultivation. In addition, genomic approaches to evaluating the evolutionary relationship between *Vigna* species and addressing questions concerning domestication, adaptation and genotype–phenotype relationships are also discussed

Publishing Addiction Science is a comprehensive guide for addiction scientists facing the complex process of contributing to scholarly journals. Written by an international group of addiction journal editors and their colleagues, it discusses how to write research articles and systematic reviews, choose a journal, respond to reviewers' reports, become a reviewer, and resolve the often difficult authorship, ethical and citation issues that arise in addiction science publishing. As a "Guide for the Perplexed," Publishing Addiction Science helps novice as well as experienced researchers to deal with these challenges. It is suitable for university courses and forms the basis of the training workshops offered by the International Society of Addiction Journal Editors (ISAJE). Co-sponsored by ISAJE and the scientific journal Addiction, the third edition of Publishing Addiction Science gives special attention to the challenges faced by researchers from developing and non-English-speaking countries and features new chapters on guidance for clinician-scientists and the growth of infrastructure and career opportunities in addiction science.

This book offers a state-of-the-art overview of on abiotic stresses in terms of the challenges; scope and opportunities;

copping strategies for adaptation and mitigation using novel tools for building resilience in agricultural crops and livestock; as well as for policy implementation. Divided into four major parts: advances and prospects for understanding stress environments; adaptation and mitigation options; crop-based mitigation strategies; and mitigation options in animal husbandry, the book focuses on problem-solving approaches and techniques that are essential for the medium to long-term sustainability of agricultural production systems. The synthesis and integration of knowledge and experiences of specialists from different disciplines offers new perspectives in the versatile field of abiotic stress management, and as such is useful for various stakeholders, including agricultural students, scientists, environmentalists, policymakers, and social scientists.

The pen beckons you to put your thoughts and reflections on this journal. There are 93 pages here to get you started that includes 2 pages for Notes at the end and 1 page at the start to mention your name, your motivation, favorite quotation(s). A time capsule that you can check back to see how far you have come in a few days, months and even years. Your journey begins here!

Science is at a crossroads. Cold War-era easy money for grand-scale projects has become a thing of the past. And yet, in this new environment, science seems to be reinvigorating itself, moving away from an overly specialized, bureaucratic mindset to a more streamlined, multidisciplinary approach. In a number of fields, innovative teams led by gifted researchers are combining imaginative methods with inexpensive tools to chip away at the previously impenetrable secrets of the body, the mind, the planet, and the universe. In the process, they are demonstrating the same kind of inspired drive toward discovery that led Galileo to invent the telescope. *Bold Science* examines this "scientific new wave" by profiling the work of some remarkable researchers: gene hunter Craig Venter, neuroscientist Susan Greenfield, astronomer Geoffrey Marcy, immunologist Polly Matzinger, cosmologist Saul Perlmutter, ecologist Gretchen Daily, and evolutionist Carl Woese. Headstrong, iconoclastic, visionary, these scientists have risen to the pinnacles of their fields at a pivotal moment—and are producing amazing breakthroughs with bold, sometimes controversial methods. In exploring their scientific lives and times, *Bold Science* shows readers why we are at the dawning of a new era of understanding ourselves and our universe.

This book provides a comprehensive overview of brain metastases, from the molecular biology aspects to therapeutic management and perspectives. Due to the increasing incidence of these tumors and the urgent need to effectively control brain metastatic diseases in these patients, new therapeutic strategies have emerged in recent years. The volume discusses all these innovative approaches combined with new surgical techniques (fluorescence, functional mapping, integrated navigation), novel radiation therapy techniques (stereotactic radiosurgery) and new systemic treatment approaches such as targeted- and immunotherapy. These combination strategies represent a new therapeutic model in brain metastatic patients in which each medical practitioner (neurosurgeon, neurologist, medical oncologist, radiation oncologist) plays a pivotal role in defining the optimal treatment in a multidisciplinary approach. Written by recognized experts in the field, this book is a valuable tool for neurosurgeons, neuro-oncologists, neuroradiologists, medical oncologists, radiation oncologists, cognitive therapists, basic scientists and students working in the area of brain tumors.

This is an explicit and detailed guide, an intelligent "how-to" book for professionals. It lays the groundwork and creates context by exploring essential concepts, defines terms that may be new or unfamiliar, and then moves forward with practical software techniques. All the while it is building on the existing knowledge and experience of its professional design audience. *Taking Your Talent to the Web* is based on the Populi Curriculum in Web Communications Design, developed by Jeffrey Zeldman in cooperation with Populi, Inc., ([www.populi.com](http://www.populi.com)) and the Pratt Institute. The book's purpose is to guide traditional art directors and print designers as they expand their existing careers to include the new field of professional Web Design.

*The Vietnamese Social Sciences and Humanities at a Fork in the Road*, utilizing an object-oriented structured database on the productivity of Vietnamese researchers, seeks to provide a comprehensive overview of the development of Social Sciences and Humanities in Vietnam from 2008 to 2018. Quan-Hoang Vuong (Ph.D., Université Libre de Bruxelles) is the director of Centre for Interdisciplinary Social Research, Phenikaa University in Hanoi, Vietnam. He is chairman of the Vietnam chapter of the European Association of Science Editors and serves in the NAFOSTED Scientific Council on Basic Research in the Social Sciences and Humanities (2019-2021). Dr. Vuong has published more than 120 academic articles, and book chapters in about 50 refereed journals and books by such publishers as Elsevier, Inderscience, Nature Publishing Group, Springer, Praeger, Wiley, World Scientific, etc. Trung Tran is an Associate Professor of Mathematics Education and works at Vietnam Academy for Ethnic Minorities. He is a member of the Vietnam chapter of The European Association of Science Editors (EASE), a leader of the Vietnamese Science Editors (VSE) Team, and a chairman of Editor's Board of Journal of Ethnic Minorities Research (ISSN: 0866-773X).

In an era of promising advances in cancer research, there are considerable and even alarming gaps in the fundamental knowledge and understanding of ovarian cancer. Researchers now know that ovarian cancer is not a single disease—several distinct subtypes exist with different origins, risk factors, genetic mutations, biological behaviors, and prognoses. However, persistent questions have impeded progress toward improving the prevention, early detection, treatment, and management of ovarian cancers. Failure to significantly improve morbidity and mortality during the past several decades is likely due to several factors, including the lack of research being performed by specific disease subtype, lack of definitive knowledge of the cell of origin and disease progression, and incomplete understanding of genetic and non-genetic risk factors. *Ovarian Cancers* examines the state of the science in ovarian cancer research, identifies key gaps in the evidence base and the challenges to addressing those gaps, considers opportunities for advancing ovarian cancer research, and examines avenues for translation and dissemination of new findings and communication of new information to patients and others. This study makes recommendations for public- and private-sector efforts that could facilitate progress in reducing the incidence of morbidity and mortality from ovarian cancers.

The imperative to "publish and not perish" has never been more compelling. Yet millions of manuscripts are prepared each year without a clear path to publication by a peer-reviewed medical journal. Enter "The Gutkin Manual." Drawing from the author's distinguished, nearly 30-year career, this comprehensive and supportive guide helps to get your paper accepted—and by the journal of first choice. Elucidating pivotal principles of quality, and biostatistics, and informed by the belief that your writing can be engaging, elegant, and memorable—no matter how technical and complex the subject matter, this volume can be your trustworthy companion as you seek to enhance both the structure and substance of your manuscripts.

The book reviews key developments in downy mildew research, including the disease, its distribution, symptomatology, host range, yield losses, and disease assessment; the pathogen, its taxonomy, morphology, phylogeny, variability, sporulation, survival and perpetuation, spore germination, infection, pathogenesis, seed infection, disease cycle, epidemiology, forecasting, and fine structures. The book also elaborates the mechanisms of host resistance (biochemical, histological, genetic, and molecular, including cloning and the mapping of R-genes), disease resistance breeding strategies, and the genetics of host-parasite interactions. It explores disease management based on cultural, chemical, biological, host resistance, and integrated approaches; and provides suggestions for future research areas. This book offers a comprehensive guide to an economically important disease, reviewing in detail the extant body of literature. Divided into 16 chapters, each of which includes a wealth of photographs, graphs, histograms, tables, figures, flow charts, micrographs etc., it represents an invaluable source of information for all researchers, teachers, students, industrialists, farmers, policymakers, and all others who are interested in growing healthy and profitable cruciferous crops all over the world.

This timely book is a compilation of edited articles by distinguished international scientists discussing global warming, its causes as well as present and future solutions. Social and economic growth at global level is measured in terms of GDP, which requires energy inputs generally based on fossil fuel resources. These, however, are major contributors to increasing levels of CO<sub>2</sub>, causing 15 tonnes of green house gas emissions per capita. Renewable sources of energy offer an alternative to fossil fuels, and would help reduce this to the 2 tonnes of greenhouse gas emissions per capita per annum needed to achieve sustainable growth. As such, the book discusses the next-generation of biofuels and all related aspects, based on the editors' significant investigations on biofuels over the last 30 years. It also presents the latest research findings from research work carried out by contemporary researchers. Presenting global biofuel perspectives, it examines various issues related to sustainable development of biofuels in the contexts of agriculture, forestry, industry and economic growth. It covers the 1st to 4th generation biofuels, as well as the status of biofuel resources and their potential in carbon neutral economy. Offering a comprehensive, state-of-art overview of current and future biofuels at local and global levels, this book appeals to administrators, policy makers, universities and research institutions.

This book is an outcome of the keynote/lead papers presented by the experts from different disciplines in the Indian Ecological Society International Conference 2016 on "Natural Resource Management: Ecological Perspectives", organized at the Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, India. The book captures the essence of natural resource management from the intra and interdisciplinary perspectives of agricultural sciences (entomology, plant pathology, plant breeding and genetics, agronomy and soil sciences), social sciences (resource economics, agricultural extension education), medical sciences, and environmental sciences to stimulate discussion on the ecological perspectives of natural resource management. Wide-ranging topics on land and water resources, biodiversity, integrated farming system, role of microbes in agriculture, climate change and its impact on human health and crop pests, exploiting chemical ecology for pest management, human disease-causing pesticides, beneficial insects like lac insects, integrated pest management, resistance management in insect pests and Bt cotton, and diffusion and adoption of ecologically sustainable technologies at individual and organizational level are covered in the book. The book will serve the professionals, researchers, academia, government, industry and students.

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

Adolescent Rheumatology is the first single-source text that focuses on how adolescent-specific aspects impact rheumatic conditions and cross references disease-specific information from general rheumatology textbooks. Using a generic, developmental approach to make this book unique, the evidence base is referenced with a clinical and practical approach that is adopted to each topic. Written by a list of international experts from a range of disciplines, chapter topics include: differences in presentation, diagnosis and management between pediatric, adolescent and adult rheumatology care adolescent health training issues quality of care in adolescent rheumatology communication with young people a full chapter written by young people attending adolescent rheumatology clinics

Air-Puff Tonometers presents the latest achievements and research works in the area of intraocular pressure measurement by the air-puff method. This method is used, for example, by the Corvis(R) ST, owing to the ultra-high-speed Scheimpflug camera, which records corneal deformation being the response to an air puff. This book is recommended reading for those involved in the analysis and processing of images and wanting to expand their knowledge of contemporary diagnostic methods and image analysis.

Data sharing can accelerate new discoveries by avoiding duplicative trials, stimulating new ideas for research, and enabling the maximal scientific knowledge and benefits to be gained from the efforts of clinical trial participants and investigators. At the same time, sharing clinical trial data presents risks, burdens, and challenges. These include the need to protect the privacy and honor the consent of clinical trial participants; safeguard the legitimate economic interests of sponsors; and guard against invalid secondary analyses, which could undermine trust in clinical trials or otherwise harm public health. Sharing Clinical Trial Data presents activities and strategies for the responsible sharing of clinical trial data. With the goal of increasing scientific knowledge to lead to better therapies for patients, this book identifies guiding principles and makes recommendations to maximize the benefits

and minimize risks. This report offers guidance on the types of clinical trial data available at different points in the process, the points in the process at which each type of data should be shared, methods for sharing data, what groups should have access to data, and future knowledge and infrastructure needs. Responsible sharing of clinical trial data will allow other investigators to replicate published findings and carry out additional analyses, strengthen the evidence base for regulatory and clinical decisions, and increase the scientific knowledge gained from investments by the funders of clinical trials. The recommendations of Sharing Clinical Trial Data will be useful both now and well into the future as improved sharing of data leads to a stronger evidence base for treatment. This book will be of interest to stakeholders across the spectrum of research--from funders, to researchers, to journals, to physicians, and ultimately, to patients.

Atrial fibrillation is the commonest sustained cardiac rhythm disorder which confers significant mortality and morbidity from stroke, thromboembolism and heart failure. Atrial fibrillation is encountered in a wide variety of clinical settings, including ischaemic heart disease, valve disease, hypertension, thyroid disease and post operatively. There have been new and dramatic developments in atrial fibrillation, with regard to non-pharmacological management strategies and antithrombotic therapy. This book sets out a logical approach to the practical and clinical management of this common cardiac arrhythmia. Illustrated with 86 ECGs and line drawings, and extensively referenced, it is a unique guide and source of information for everyone managing patients with atrial fibrillation, both in general practice and in hospitals.

Carbohydrate bioengineering is a rapidly expanding field with many applications in medicine and industry. Presenting state-of-the-art research, Carbohydrate Bioengineering: Interdisciplinary Approaches brings together international experts on many different aspects of this burgeoning topic. Coverage includes: the engineering of glycosidases for constructive purposes; structure-function studies and protein engineering of carbohydrate-active enzymes; chemo-enzymatic carbohydrate synthesis; and trends emerging from comprehensive work on genomes and glycomes. This timely publication will be welcomed by all those needing access to the latest research in the field, including practitioners in the medicinal, chemical, food and pharmaceutical areas.

Mushroom Biotechnology: Developments and Applications is a comprehensive book to provide a better understanding of the main interactions between biological, chemical and physical factors directly involved in biotechnological procedures of using mushrooms as bioremediation tools, high nutritive food sources, and as biological helpers in healing serious diseases of the human body. The book points out the latest research results and original approaches to the use of edible and medicinal mushrooms as efficient bio-instruments to reduce the environment and food crises. This is a valuable scientific resource to any researcher, professional, and student interested in the fields of mushroom biotechnology, bioengineering, bioremediation, biochemistry, eco-toxicology, environmental engineering, food engineering, mycology, pharmacists, and more. Includes both theoretical and practical tools to apply mushroom biotechnology to further research and improve value added products Presents innovative biotechnological procedures applied for growing and developing many species of edible and medicinal mushrooms by using high-tech devices Reveals the newest applications of mushroom biotechnology to produce organic food and therapeutic products, to biologically control the pathogens of agricultural crops, and to remove or mitigate the harmful consequences of quantitative expansion and qualitative diversification of hazardous contaminants in natural environment

This book explains how to use intravitreal steroids optimally in the management of patients with intraocular inflammation (uveitis) and macular edema. The rationale for this treatment approach is first explained by examining the pathophysiology of these disease entities, with particular attention to the major role of inflammatory processes. Devices for the delivery of steroids to the eye are discussed, and guidance provided on the role of imaging studies before, during, and after steroid therapy. The value of different steroidal approaches is then considered in detail. Other topics addressed include the use of steroids as a surgical adjunct and within a combination strategy. Uveitis and macular edema are common sight-threatening diseases or complications of diabetes and retinal vein occlusion for which no adequate treatment was available until recently. Both trainees and practitioners will find Intravitreal Steroids to be an invaluable aid in combating these blinding diseases.

The field of Phytobacteriology is rapidly advancing and changing, because of recent advances in genomics and molecular plant pathology, but also due to the global spread of bacterial plant diseases and the emergence of new bacterial diseases. So, there is a need to integrate understanding of bacterial taxonomy, genomics, and basic plant pathology that reflects state-of-the-art knowledge about plant-disease mechanisms. This book describes seventy specific bacterial plant diseases and presents up-to-date classification of plant pathogenic bacteria. It would be of great help for scientists and researchers in conducting research on ongoing projects or formulation of new research projects. The book will also serve as a text book for advanced undergraduate and postgraduate students of disciplines of Phytobacteriology and Plant Pathology. Contains latest and updated information of plant pathogenic bacteria till December 2018 Describes seventy specific bacterial diseases Presents classification of the bacteria and associated nomenclature based on Bergey's Manual Systematic Bacteriology and International Journal of Systematic and Evolutionary Microbiology Discusses practical and thoroughly tested disease management strategies that would help in controlling enormous losses caused by these plant diseases Reviews role of Type I-VI secretion systems and peptide- or protein-containing toxins produced by bacterial plant pathogens Briefs about plants and plant products that act as carriers of human enteric bacterial pathogens, like emphasizing role of seed sprouts as a common vehicle in causing food-borne illness Dr B. S. Thind was ex-Professor-cum-Head, Department of Plant Pathology, Punjab Agricultural University Ludhiana, India. He has 34 years of experience in teaching, research, and transfer of technology. He has conducted research investigations on bacterial blight of rice, bacterial stalk rot of maize, bacterial blight of cowpea, bacterial leaf spot of green gram, bacterial leaf spot of chillies and bacterial soft rot of potatoes. He also acted as Principal Investigator of two ICAR-funded research schemes entitled, "Detection and control of phytopathogenic bacteria from cowpea and mungbean seeds from 1981 to 1986 and "Perpetuation, variability, and control of Xanthomonas oryzae pv. oryzae, the causal agent of bacterial blight of rice" from 1989 to 1993, and also of a DST funded research scheme "Biological control of bacterial blight, sheath blight, sheath rot, and brown leaf spot of rice" from 1999 to 2002. He also authored a manual entitled, "Plant Bacteriology" and a text book entitled, "Phytopathogenic Prokaryotes and Plant Diseases" published by Scientific Publishers (India). He is Life member of Indian Phytopathological Society, Indian Society of Plant Pathologists, Indian Society of Mycology and Plant Pathology, and Indian Science Congress Association.

"This book was originally published as a monograph in the International Encyclopaedia of Laws/Tort law."

This second edition of How to Write and Illustrate a Scientific Paper will help both first-time writers and more experienced authors, in all biological and medical disciplines, to present their results effectively. Whilst retaining the easy-to-read and well-structured approach of the previous edition, it has been broadened to include comprehensive advice on writing compilation theses for doctoral degrees, and a detailed description of preparing case reports. Illustrations, particularly graphs, are discussed in detail, with poor examples redrawn for comparison. The reader is offered advice on how to present the paper, where and how to submit the manuscript, and finally, how to correct the proofs. Examples of both good and bad writing, selected from actual journal articles, illustrate the author's advice - which has been developed through his extensive teaching experience - in this accessible and informative guide.

Pompe disease, also known as acid maltase deficiency or acid alpha-glucosidase deficiency, in its most severe form results in a rapidly progressive, neonatal-onset skeletal and cardiomyopathy, leading to early infantile death without treatment. The development of treatment with recombinant enzyme replacement therapy radically transformed the clinical trajectory of those affected, enabling long-term ventilator-free survival with resolution of cardiomyopathy. These positive clinical outcomes resulted in the implementation of newborn screening programs for Pompe disease across the world. This Special Issue highlights some of the experiences of Pompe screening programs worldwide and discusses public policy and ethical issues elicited by presymptomatic screening for Pompe disease.

'Represents the culmination of an 18-month-long project that aims to be the definitive review of this important topic. Accompanied by a scholarly literature review, some new analysis, and a wealth of evidence and insight... the report is a tour de force; a once-in-a-generation opportunity to take stock.' – Dr Steven Hill, Head of Policy, HEFCE, LSE Impact of Social Sciences Blog 'A must-read if you are interested in having a deeper understanding of research culture, management issues and the range of information we have on this field. It should be disseminated and discussed within institutions, disciplines and other sites of research collaboration.' – Dr Meera Sabaratnam, Lecturer in International Relations at the School of Oriental and African Studies, University of London, LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community. A commitment to using data and evidence to inform decisions makes many of us sympathetic, even enthusiastic, about the prospect of granular, real-time analysis of our own activities. Yet we only have to look around us at the blunt use of metrics to be reminded of the pitfalls. Metrics hold real power: they are constitutive of values, identities and livelihoods. How to exercise that power to positive ends is the focus of this book. Using extensive evidence-gathering, analysis and consultation, the authors take a thorough look at potential uses and limitations of research metrics and indicators. They explore the use of metrics across different disciplines, assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems. Finally, they consider the negative or unintended effects of metrics on various aspects of research culture. Including an updated introduction from James Wilsdon, the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management, by funders, and in the next cycle of the Research Excellence Framework. The metric tide is certainly rising. Unlike King Canute, we have the agency and opportunity – and in this book, a serious body of evidence – to influence how it washes through higher education and research.

This volume includes contributions from the speakers of the Second IMD Congress (September 10-15, 2007; Moscow, Russia) who were eager to share some of the academic and clinical enthusiasm that defines the IMD meetings. The goal of the International Immune-Mediated Diseases: From Theory to Therapy (IMD) Congress is to bring the world's best immunologists and clinicians to Moscow.

This book is a printed edition of the Special Issue "The Impact of Altered Timing of Eating, Sleep and Work Patterns on Human Health" that was published in *Nutrients*

This concise guide takes a practical approach to adolescent and young adult (AYA) rheumatology, aiming to cover the needs of any healthcare professional dealing with young people aged 10-24 years. Each chapter contains key management points for readers to readily access disease-specific management as well as highlighting specific AYA issues which differ from pediatric and adult practice. The coverage is comprehensive but concise and designed to act as a primary reference tool for subjects across the field of rheumatology. The book is designed for pediatric/adult rheumatologists, primary care physicians, nurses, allied health professionals and other professionals to understand each topic covered and to take a practical approach to delivering developmentally appropriate rheumatology health care.

*Scientific and Medical Communication: A Guide for Effective Practice* prepares readers to effectively communicate in professional scientific communities. The material in this book is firmly grounded in more than 500 published research findings and editorials by scientific writers, authors, and journal editors. Thus, this text provides the broadest and most comprehensive analysis of scientific writing. In addition, carefully selected and thoroughly annotated examples from the scientific and medical literature demonstrate the recommendations covered in the text. These real-world examples were carefully selected so that the scientific content can be understood by those without a detailed background in any particular scientific or medical field—thus clearly illustrating the content organization and writing style. This text will prepare individuals to write and edit scientific manuscripts, conference abstracts, posters, and press releases according to journal and professional standards. Readers will also learn to conduct effective searches of the scientific and medical literature, as well as proper citation practices.

The paradigm for atrial fibrillation (AF) management has changed significantly in recent years. A new era has begun for the prevention of one of the most tremendous complications of AF, stroke. Prevention of ischemic stroke in AF patients with oral anticoagulants represents a huge challenge because of the narrow therapeutic range of these drugs, interindividual and intraindividual variability, and the unsatisfactory time in therapeutically range (TTR) with this type of medication. New guidelines have emerged as a result of new mechanisms for initiation and perpetuation for pharmacotherapy to cure AF and trials with new classes of antithrombotic drugs are ongoing. The treatment of AF is still in its infancy, but recent research is revealing how it can be applied with optimal efficacy. This book assists trainees, recertifying physicians, practicing physicians and other professional staff in internal medicine, cardiology, emergency medicine, and clinical pharmacology to apply new diagnostic tools for selecting the best treatment options for AF patients.

In computational science, reproducibility requires that researchers make code and data available to others so that the data can be analyzed in a similar manner as in the original publication. Code must be available to be distributed, data must be accessible in a readable format, and a platform must be available for widely distributing the data and code. In addition, both data and code need to be licensed permissively enough so that others can reproduce the work without a substantial legal burden. *Implementing Reproducible Research* covers many of the elements necessary for conducting and distributing reproducible research. It explains how to accurately reproduce a scientific result. Divided into three parts, the book discusses the tools, practices, and dissemination platforms for ensuring reproducibility in computational science. It describes: Computational tools, such as Sweave, knitr, VisTrails, Sumatra, CDE, and the Declaratron system Open source practices, good programming practices, trends in open science, and the role of cloud computing in reproducible research Software and methodological platforms, including open source software packages, RunMyCode platform, and open access journals Each part presents contributions from leaders who have developed software and other products that have advanced the field. Supplementary material is available at [www.ImplementingRR.org](http://www.ImplementingRR.org).

Copyright: [8e2bf2354bcc73609a248c5683a92c35](https://doi.org/10.2196/2354bcc73609a248c5683a92c35)