

HRWM NEWS



Health Related Water Microbiology Specialist Group Newsletter

Volume 21 – June 2020

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Message from our chair

Dear colleagues and friends of the HRWM family!

It is almost exactly 100 years ago that a virus caused one of the most severe pandemics in human history. The so-called Spanish flu (1918-1919), caused by the H1N1 influenza A virus, infected 500 million people and has cost several million people their lives. Now, in the last few months, we are facing the COVID-19 pandemic and the virus SARS-CoV-2 has changed our lives dramatically, both personally and professionally, and will continue to affect them. Our sympathy goes out to all those who have lost family members or friends or who have had worries about them.

In contrast to 1918, all scientific forces have now been activated and bundled on a global scale and interdisciplinary knowledge about this infectious disease was developed almost online. Methods, analyses, models, statistics and prognoses were developed by virologists, epidemiologists, infectiologists and statisticians, measures with different approaches were implemented by the governments and complied with by the population.

Health Related Water Microbiology 199

Shimshon Belkin, Rita R. Colwell



Health Related Water Microbiology 199:

Health-Related Water Microbiology 2000 R. Morris, J. Jofre, 2001 The quality and quantity of papers given at successive Health related Water Microbiology Symposia continues to increase and the millennium meeting in Paris saw the highest ever number of delegates and presentations Of necessity these selected proceedings can only give a taste of the overall content of the Symposium but nevertheless reflect on the growing interest and awareness of the importance of the microbial contamination of our environment and the implications for human health Numerous contributions address different aspects of one of the waterborne diseases of most concern cryptosporidiosis However this did not preclude reports on outbreaks of other diseases Several contributions raised important questions how should epidemiological data be interpreted and what methods are valid for regulatory monitoring were of particular interest Newly developed analytical methods have allowed a greater range of pathogens to be detected However such techniques have little significance if they cannot be used for the practical evaluation of water quality and part of this is the acquiring of monitoring data upon which future treatment and policy decisions can be made The 43 papers selected here cover standards and quality assurance risk assessment epidemiology and disease outbreaks monitoring microbial survival disinfection wastewater treatment methodology and microbial toxins

Health-related Water Microbiology 1986 W. O. K. Grabow, 1987 The papers from the seminar cover pertinent health related issues of viruses bacteria and protozoa in water *Oceans and Health: Shimshon Belkin, Rita R. Colwell, 2006-10-12* The importance of combating infectious diseases has received international attention providing the opportunity for a multidisciplinary approach that combines medicine with other scientific and technological capabilities notably information technology nanotechnology and biotechnology In fact it has been predicted that the future will bring a merging of these technologies with the cognitive and behavioral sciences major forces that have the potential to balance the world's inequities The scientific community and world leaders must work together to use knowledge and its applications to improve the condition of the planet The connection between infectious diseases and the oceans provides a paradigm for this perspective A stark global context indisputably frames all human health issues in the twenty first century the world wide movement of people and goods Throughout the past half century international travel has skyrocketed there are more than 500 million international arrivals per year The greatest increase has taken place since the mid 1990s The world has become integrated and global consequently the notion that it is possible to successfully eradicate a disease from the face of the planet has become simplistic Infectious disease is a moving target and climate shifts will affect any disease that has an environmentally sensitive stage or vector Recognizing signals from climate models and incorporating them into health measures can provide new opportunities for proactive rather than reactive approaches to public health Thus careful attention to the role of the oceans in human health can offer new avenues of research that will provide new means of predicting and preventing those diseases that are rooted in the

environment In this volume pathogens in the sea are reviewed by Colin Munn who provides a broader perspective for the topic of pathogenic microorganisms associated with the world oceans **Microbiology of Waterborne Diseases**

,2013-11-08 The second edition of Microbiology of Waterborne Diseases describes the diseases associated with water their causative agents and the ways in which they gain access to water systems The book is divided into sections covering bacteria protozoa and viruses Other sections detail methods for detecting and identifying waterborne microorganisms and the ways in which they are removed from water including chlorine ozone and ultraviolet disinfection The second edition of this handbook has been updated with information on biofilms and antimicrobial resistance The impact of global warming and climate change phenomena on waterborne illnesses are also discussed This book serves as an indispensable reference for public health microbiologists water utility scientists research water pollution microbiologists environmental health officers consultants in communicable disease control and microbial water pollution students Focuses on the microorganisms of most significance to public health including E coli cryptosporidium and enterovirus Highlights the basic microbiology clinical features survival in the environment and gives a risk assessment for each pathogen Contains new material on antimicrobial resistance and biofilms Covers drinking water and both marine and freshwater recreational bathing waters WATER

HEALTH - Volume I ,2010-10-24 Water Health is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes discuss matters of great relevance to our world on desalination which is a critically important as clearly the only possible means of producing fresh water from the sea for many parts of the world The two volumes present state of the art subject matter of various aspects of water health such as Water And Health Classification Of Water Related Disease Burden Of Disease Current Situation And Trends Transmission And Prevention Of Water Related Diseases Goals Of Water Treatment And Disinfection Reduction In Morbidity And Mortality Diseases Associated With Drinking Water Supplies That Meet Treatment And Indicator Specifications New And Emerging Waterborne Infectious Diseases Safe Drinking Water In The Twenty First Century Priorities For Public Health Health Impact And Economic Costs Of Poor Water And Sanitation Water Safety Plans For Water Technologies Hygiene Promotion Institutional Issues In The Delivery Of Water And Sanitation Services Economics And Financing In The Water Sector Monitoring Drinking Water Supplies Zoonoses Acquired Through Drinking Water Microbiological Water Quality Assessment Catchment To Tap Epidemiologic Studies Of Disinfectants And Disinfectant By Products Health Effects Of Chemical Contamination Of Drinking Water Supplies Unconventional Sources Of Water Supply Point Of Use Water Treatment For Home And Travel Treatment And Safe Storage Of Water In Households Without Piped Supplies Of Treated Water Quantifying Health Risks In Wastewater Irrigation Impacts Of Eutrophication On The Safety Of Drinking And Recreational Water Groundwater And Public Health Aquaculture And Mariculture Recreation In Natural Water Resources Dry Sanitation Technologies Can They Be Sustainable

Constraints To Improving Water And Sanitation Services Human Health In Water Resources Development Toxic Cyanobacteria Multiple Uses Of Water And Human Health Health Impact Assessment Water Reclamation And Reuse Role Of Water Reuse In Management Of Urban Water Resources The Uses Of Recycled Water Coming To Terms With Nature Water Reuse New Paradigm Towards Integrated Water Resources Management Helminth Ova Control In Wastewater And Sludge For Agricultural Reuse These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers **Wastewater Microbiology**

Gabriel Bitton, 2005-05-13 The new edition of a classic reference incorporating the latest findings and discoveries The Third Edition of this classic reference provides readers with concise up to the moment coverage of the role of microorganisms in water and wastewater treatment By providing a solid foundation in microbiology microbial growth metabolism and nutrient cycling the text gives readers the tools they need to make critical decisions that affect public health as well as the practical aspects of treatment disinfection water distribution bioremediation and water and wastewater reuse The publication begins a discussion of microbiology principles followed by a discussion of public health issues and concerns Next the core of the text is dedicated to a thorough examination of wastewater and drinking water treatment biosolids pollution control biotechnology and drinking water distribution The remainder of the text discusses toxicity testing in wastewater treatment plants and the public health aspects of wastewater disposal and reuse The many advances in wastewater and drinking water microbiology have all been thoroughly integrated into the publication including A new chapter on bioterrorism and drinking water safety The latest developments in biofilm microbial ecology and biofilm impact on drinking water quality New state of the art detection techniques Expanded and revised treatment of toxicity testing including new testing methods and studies on endocrine disrupters in wastewater Alternatives to conventional wastewater treatment New problem sets which test readers knowledge as well as a list of Internet resources have been added to each chapter In addition the publication s extensive references have been thoroughly revised for readers who would like to learn more about the latest findings and discoveries on specialized topics Finally the color plate section has been expanded and contains many new illustrations and tables An authoritative guide for all researchers administrators and engineers in the field of microbiology Wastewater Microbiology Third Edition is also a valuable reference for civil and environmental engineers public health officials and students involved in environmental engineering and science **Selected Water Resources Abstracts** ,1991 **Methods of Soil Analysis,**

Part 4 Jacob H. Dane, Clarke G. Topp, 2020-05-27 The best single reference for both the theory and practice of soil physical measurements Methods Part 4 adopts a more hierarchical approach to allow readers to easily find their specific topic or measurement of interest As such it is divided into eight main chapters on soil sampling and statistics the solid solution and gas phases soil heat solute transport multi fluid flow and erosion More than 100 world experts contribute detailed sections

Selected Water Resources Abstracts ,1991 Manual of Environmental Microbiology Christon J. Hurst, Ronald L.

Crawford, 2002 The new second edition of this essential manual summarizes the information and knowledge of environmental microbiology in a single source It details the natural fate of microorganisms in the environment as well as the intentional attempts to eliminate from the environment microorganisms that are pathogenic to humans or to plants and animals The basic principles of environmental microbiology and general analytical methodologies common across the range of the environments covered are presented first The core sections are structured with regard to the type of environmental medium being discussed This landmark effort defines the study of environmental microbiology as we know it today and serve as an essential contribution to the literature Drinking Water and Health, National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Safe Drinking Water Committee, 1977-02-01 **Cumulated Index Medicus**, 1964

Animal Waste, Water Quality and Human Health A. Dufour, Jamie Bartram, 2012-10-14 Domestic animals contaminate recreational waters and drinking water sources with excreta and pathogens but this threat to public health is inadequately understood and is insufficiently addressed in regulations More than 85% of the world's faecal wastes is from domestic animals such as poultry cattle sheep and pigs These animals harbor zoonotic pathogens that are transported in the environment by water especially runoff However little information exists on health effects associated with exposure to this potential hazard to human health and water standards focused on control of human fecal contamination do reflect the contribution of non human fecal contamination to risk Does compliance with current monitoring practices using microbial indicators provide protection against animal and bird sources of fecal contamination Prepared with contributions from a group of international experts Animal Waste Water Quality and Human Health considers microbial contamination from domestic animal and bird sources and explores the health hazards associated with this microbial contamination and approaches to protecting public health Animal Waste Water Quality and Human Health will be of interest to regulators with responsibility for recreational waters drinking water quality and water reuse policymakers working in water quality public health and agriculture decision makers responsible for livestock management and scientists and practitioners concerned with many affected subjects Topics covered include Credible waterborne zoonotic pathogens are discussed and ranked according to their potential hazard level Each pathogen is described with regard to their sources reservoirs and infectivity Faecal production rates of various domestic animals are discussed alongside pathogen transmission in animal populations pathogen prevalence in animals and supershedders Transport of fecal indicator organisms and their episodic occurrence in catchments Interventions for improving food safety and reducing production losses The impact of interventions e.g enhanced attenuation and storage to prevent spills benchmarking against best management practices to reduce diffuse source contamination Models to inform design of farm scale best management practices and the effectiveness of best management practices for attenuating pathogen transport within catchments The complex nature of human exposure to zoonotic waterborne pathogens including the relationships among livestock waste contamination water impairment zoonotic pathogens and human infection

and illness Human exposure interventions include case studies that discuss eradicating disease in discharging populations adding filtration to minimal treated water to reduce *Cryptosporidium* occurrence and UV disinfection of beach waters to reduce beach postings Indicators sanitary surveys and source attribution techniques risk assessment of exposure to zoonotic pathogens including an interactive risk comparison approach A review of epidemiological studies that address the relationship between swimmer illness and exposure to waters contaminated by nonhuman fecal wastes Economic evaluation of the costs and benefits associated with animal waste management and human health Bacterial Indicators - Health Hazards Associated with Water Alfred Warner Hoadley, Bernard J. Dutka, 1977 The International Symposium on Bacterial Indicators of Potential Health Hazards Associated With Water was held 28-29 June 1976 at Chicago Ill The American Society for Testing and Materials Committee D19 on Water sponsored the symposium and A W Hoadley Georgia Institute of Technology served as symposium chairman B J Dutka Canada Centre for Inland Waters and A W Hoadley served as editors of this publication Bacterial Indicators/health Hazards Associated with Water A. W. Hoadley, B. J. Dutka, 1977 *Index Medicus*, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Environmental Health Perspectives**, 2003-02 **Public Health Service Publication**, **Pathogenic Mycobacteria in Water** World Health Organization, 2004-09-23 Environmental mycobacteria can be found in diverse environments around the world some of which have the ability to infect animals birds and humans and have evolved mechanisms by which they can invade and grow within host cells the pathogenic environmental mycobacteria PEM Although the diseases caused by these organisms have been known for many years it is only recently that the potential significance of PEM as a waterborne pathogen has been appreciated This publication discusses current knowledge about the distribution of PEM in water and other parts of the environment the routes of transmission that lead to human infection the most significant disease symptoms that can follow infection methods of analysis and detection the control of PEM in drinking water and the assessment and management of risks **Water and Health** Prati Pal Singh, Vinod Sharma, 2013-10-01 Water and Health strengthens the dynamic relationship between human health and water The book has the potential to ignite our minds about several water related diseases due to biological and chemical contamination and to their high end solutions The contents are original comprehensive and highly informative and gradually take the reader around the component most important to his or her quality life and not just existence The book is set in social scientific and economic dimensions and is a must read for all those who cherish and celebrate human life and dignity

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