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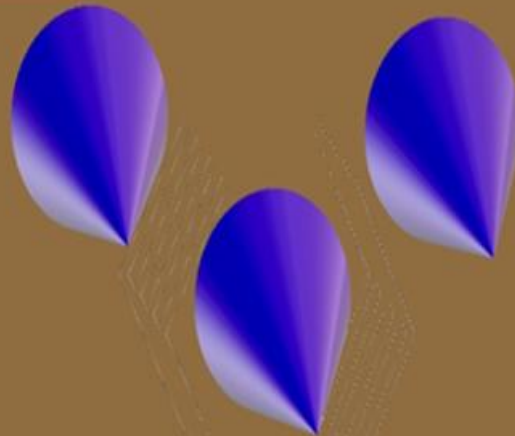
JEETHP

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Contents

Preface

Acknowledgements

About the Editors

Chapters

1. Coexistence, Infections, and Deaths of SARS-CoV-2 in the South Asian Country of Bangladesh in June-September 2022	17
2. Tourism Sustainability Through the New Normal Era Tourism Area Development Strategy	26
3. Integrated hospital facilities for sustainable future in Africa - Rwanda	39
4. Japanese Encephalitis: A vector-borne viral disease of public health significance	43

Preface

A new volume of journal research transactions book series entitled Emerging Environmental Technologies and Health Protection (JEETHP) has been realized, which is a challenge for research dissemination; research and development for stakeholders; graduates; investors; social planners; vocational education, training and all the while keeping in mind not to do any injustice to the zeal of a contributor who has worked so hard to pen the text. However, “Emerging Environmental Technologies and Health Protection” last decades old philosophy has been attracting not only due to the circumstances of post COVID-19 pandemic era but also for integrated environmental public health protection the attention of scientists worldwide. Academicians as well as industrialists are equally interested in this new stream of environmental - chemical science; innovative biotechnologies for health protection; sustainable designs; information communication technologies (ICTs); smart engineering projects; efficient e-learning - training tools; social health policy – social cohesion – media; efficient operation of veterinary units; sustainable tourism; health soil – environmental resources; effective community health units; infant units; forest – ecological infrastructures protection; sustainable designs; efficient construction designs for all; fluid mechanics for the semantics and building capacities between different scientific disciplines in engineering, biotechnology, materials and social sciences for health protection and sustainable development.

Researchers, all over the world, are conducting active research in different fields of engineering, social science and technology by adopting innovative principles and methodologies to devise new processes with a view towards helping, protecting, and ultimately saving the environment of our planet from further anthropogenic interruptions and damage. Achieving sustainability of resources is the basic spirit of innovative sustainable projects; it inspires us to try alternative “green” sustainable approaches in place of traditional “gray” practices in everyday industrial and scientific activities. Waste management, food protection, innovative materials, efficient information technologies and sustainable design avoiding associated hazards and risks is a matter of great concern. It’s quality important for both domestic purposes and industrial needs. Emerging environmental technologies are coming a necessity within clean technologies; waste management; sustainable designs; green chemistry; food productivity; food protection; public health; safety design; innovative materials; landfill emissions' exploitation; social sciences; architectural landscape upgrade; ICTs; IoTs; e-learning; green web utilities; reading materials and educational utilities for vocational training; smart technologies; green cities; sustainable health tourism; sustainable tourism; sports for emotional and physical activities; safe construction designs; environmental health monitoring. They are therefore an important task. But, selecting technology dyes at a cost to the environment that should be avoided when considering which technique to use.

Hence, the far important challenge is to make an applied technique sufficiently sustainable and green within a circular economy. Environmental resources pollution is often discussed with respect to various pollutants and their treatments, but the issue of emerging technologies that support health protection and sustainability has not been discussed sufficiently in the literature. Hence, the emerging environmental

technologies and environmental health protection has tremendous scope worldwide. That is why emerging environmental technologies and health protection is an important issue which needs to be addressed seriously.

The chapters in the current research transactions volume, journal research series are the outcome of the scholarly writing of researchers of international repute with stellar credentials, who have tried to present an overview of current solutions to particular environmental problems that promote sustainability from different scientific fields. The main aim is to protect human health and environmental resources building capacities that support a sustainable development taken place proper designs and applied environmental technologies, all of which are “green.”

The current periodical book volume contains four articles as they are described in contents as well as on-line. They focus on the theme of green technologies, efficient designs that are sustainable and discuss techniques, tools and materials which promote sustainability, eco-friendly solutions, sustainable tourism protecting public health and social progress from different scientific disciplines.

Furthermore, this JEETHP’s volume of periodical research series can be used as an important platform to inspire researchers and stakeholders in any related fields in order to develop sustainable processes for important techniques for use in associated fields of green projects; sustainable designs; sustainable tourism facilities; sustainability; food productivity; food protection; waste management; biotechnology; materials; safety design; monitoring; public health protection; ecological health; community health; geohealth; sustainable circular economies and associated information communication technologies. We gratefully acknowledge all the contributors of this journal volume issue, without whom these valuable articles could not have been completed. We express our highest gratitude and thankfulness to all of them.

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December 2022

Acknowledgments

After the successful publication of last volume again completing a task like the publication of the current fifth volume, issue one, of relative journal articles, at JEETHP's sections in this task it takes time to rewind again your journey and relive it through memories, you remember people with encouraging faces that have motivated you to complete the task with untiring efforts to your full ability. Such smiling faces remove any pain of stress encouraging us to "Go ahead."

In the post COVID-19 pandemic era we have all to be careful following the right guidelines that are recommended by the Authorities and relative Public Health Organizations for the public health protection. However, we want to express our special thanks to all esteemed contributors of this book, who deserve special mention for contributing their writings, without which this book would not have been possible. We deeply acknowledge our families for their never-ending encouragement, moral support and blessings. We appreciate their patience over the course of this journal volume 5, issue 1. We are also thankful to many others whose names we have not been able to mention but whose association and support has not been less in any way.

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Prof. Dr. Tilemachos K. Koliopoulos is a very well-known author of many books, educational notes, research journals and hundreds of articles over the last twenty years. He has been scientific and laboratory collaborator giving lectures in the fields of environmental management, sanitary, civil, environmental and geo-information engineering during the last years at Technological Educational Institute of Athens, Department of Public Health and Community Health and at University of West Attica in Athens, Greece. He has been Professor of Technical Academy of Greek Air Forces. He has been Visiting Professor giving lectures, RD's presentations and seminars for Universities and others in Europe and overseas. Currently he is Managing Director of the Telegeco Research & Development Center. He did his PhD at University of Strathclyde in Department of Civil Engineering, Center of Environmental Management Research, in Glasgow in the U.K. His research has been in Numerical Modelling and Associated Risk Assessment in sanitary, environmental, civil engineering subjects. His research interests are focused on the development of right techniques for Public Health's protection; CFD; waste recovery; circular economy for smart cities; construction materials; atmospheric chemistry; sustainability – energy; clean technologies; optimum landfill design; environmental chemistry; hydraulics – hydrology; numerical modeling; simulation learning tools; ICT's; IoT's; VLR's; food protection; biotechnologies; biomass treatment; waste management; monitoring environmental resources and emissions; sanitary drawings; landfill gas; leachates' treatment; landfill emissions; risk assessment; web g.i.s tools; project management; sanitary engineering designs; community health building facilities; efficient construction designs; sustainable tourism; quality assurance; econometrics; decision making and sustainable development designs. Also he has made postgraduate studies Master of Environmental Studies at University of Strathclyde, Master of Business Administration at Open University of Greece in project management and I.C.T's for the protection of environmental resources and public health. He is a chartered civil engineer finished civil, environmental engineering studies at National Technical University of Athens in Greece. He has been specialized in information and communication technologies for Public Health's protection and Sustainable

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Professor Dr. Fateh Mebarek Oudina is a very well-known author of many research journals, books, educational notes and a lot of articles over the last years. Presently Prof. Fateh Mebarek Oudina is working as Associate Professor at University of 20 août 1955, Skikda University, Department of Physics, Faculty of Sciences, in Skikda, Algeria. He has been Member of the International Association of Engineers (IAENG); Member of the Asian Council of Science Editors as well as elected member of Scientific Council of Skikda University, Algeria and Elected member of the Skikda University Joint Commission. He has been Member of the Technical Program Committee for several International Conferences like Materials Science and Engineering; Education, Management and Systems Engineering; Advanced Materials Science and Environmental Engineering; Modelling, Simulation and Applied Mathematics; Computer Science and Architecture Intelligence; Sustainable Energy and Environment; Electrical, Mechanical and Industrial Engineering; Mechanical and Mechatronics Engineering; Advanced Manufacture Technology; Nanomaterials and Renewable Energies and Industrial Application and Mechanical , Electronic and Information Technology. He has also been appointed as Associate Editor of Fluid Mechanics research International Journal; City University International Journal of Computational Analysis as well as Member of the Editorial Board and reviewer of several Scientific Journals. His research interests are in Magnetohydrodynamics (MHD); Computational Fluid Dynamics (CFD); Rotating flows; Hydrodynamic stability; Nanofluids; Combustion; Modeling – Simulation; and Energy. He is also a lifetime member of various international professional societies including the International Association in Engineering, IAENG, Society of Chemical Engineering; Society of Computer Science; Society of Industrial Engineering; Society of Mechanical Engineering and IAENG Society of Scientific Computing etc. f.oudina@hotmail.com

Prof. Dr. Mahendra Pal, Emeritus Professor, Ex-Professor of Veterinary Public Health (UNDP), Addis Ababa University, Ethiopia, is an internationally renowned scientist, and a well known distinguished academician with 601 publications and 8 books. Prof. Pal also worked as

Professor and Head, Department of Veterinary Public Health, Anand Agricultural University, India. He is associated as Editor and Member of many online journals. Prof. Pal guided over many students at DVM, MVSc, MSc, and Ph.D. level in India and Ethiopia. He is credited to develop Pal's medium, APRM medium, PHOL stain and Narayan stain for the study of fungi, which are implicated in the clinical disorders of humans and animals. Prof. Pal elucidated for the first time the role of *Cryptococcus neoformans* in the mastitis of goat and buffalo, *Fusarium solani* in corneal ulcer of buffalo, *Aspergillus fumigatus* in rhinitis of camel and mule, *Trichophyton verrucosum* in dermatitis of deer, and *Candida tropicalis* in human lung empyema.

He has established for the first time the prevalence of *Cryptococcus neoformans* in the environment of New Zealand, Nepal, and Djibouti. Prof. Pal has reported the first isolation of *Candida albicans* from mastitic milk, and *Trichophyton verrucosum* in dermatitis of camel in Ethiopia. Prof. Pal launched the Ph.D. programme for first time in Veterinary Public Health at Addis Ababa University, Ethiopia and also at College of Veterinary Science, Anand, Gujarat, India. His biography is published in World's Who and Who. Prof. Pal is recipient of many award including "Distinguished Teacher Award", "Jawaharlal Nehru Award", "International Achievement Award", and "Life Time Achievement Award". Prof. Pal delivered guest lectures in medical and veterinary colleges in India, New Zealand, Japan, and Ethiopia. He is the "First Indian Veterinarian" who worked as "JSPS Visiting Scientist" at University of Tokyo, Japan. Considering his immense contribution, Prof. Pal is known as "Father of Veterinary Mycology" in India. Very recently, he launched "Narayan Consultancy" on Veterinary Public Health and Microbiology to give free technical advice to scientists of poor resource countries of the world.

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