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Akebe Luther King Abia, Guy R. Lanza (Eds.)

Current Microbiological Research in Africa

Selected Applications for Sustainable Environmental Management

- There are no books available that focus on current microbiological research in Africa
- The book provides a current source of information on important research underway in key areas of microbiology
- The book discusses global insights to the state-of-the-art in selected areas of microbiological research in Africa and, as a result, the book should help to define both the areas of technical research and research policy, which will lead to useful and practical solutions to many current challenges in Africa related to microbiological issues

Scientific output in low-and middle-income countries is greatly challenged by numerous factors. This is particularly pronounced in sub-Saharan African countries, despite the continent being the world's second largest and second most-populous continent, currently undergoing rapid economic growth. Financial constraints and unclear areas of focus when funding is available, are among the limiting factors, with the consequence being the development of inadequate policies, especially those relating to environmental protection and conservation. This 13-chapter book is a unique piece in the field of microbiology, designed to stimulate some research areas in Africa by illustrating interesting and informative examples of the current applied research agenda in environmental microbiology in selected countries within the continent. With authors from the North, South, East and West of Africa, the book touches diverse applied methods and approaches to meet the pragmatic needs faced by environmental microbiologists in Africa. Also included are topics on viruses, bacteria (including cyanobacteria), and protozoa, and their importance in disease. Sustainable agriculture and aquaculture, and eco-friendly oil and hydrocarbon bioremediation and degradation approaches are highlighted. Microbial involvement in different common indoor (e.g., household kitchens, latrines, and hospitals) and outdoor settings including air, soil, and water habitats, and their resistance to commonly used antibiotics, are described.

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