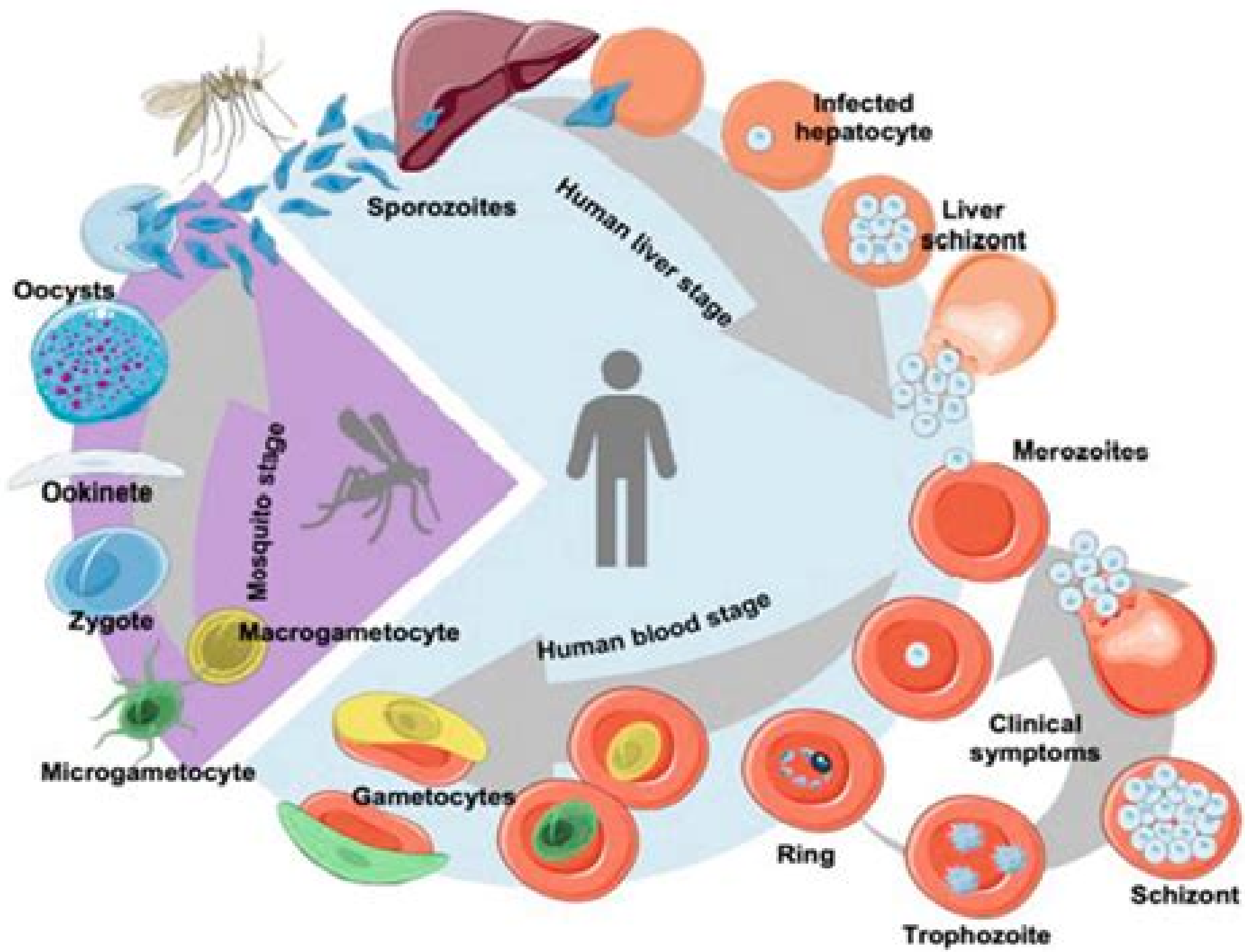




Microbiology Tropic

**João Lucio de Azevedo, Maria Carolina
Quecine**



Microbiology Tropic:

Microbiology of Tropical Soils and Plant Productivity Y.R. Dommergues, G.H. Diem, 2012-12-06 It is an established fact that we must continually increase and improve agricultural production if we are to meet even the minimum requirements of a growing population for food shelter and fuel In recent years the introduction of new plant varieties and the extensive use of fertilizers have effectively increased crop yields but intensifying agricultural methods has often led to depleting soil fertility Two examples of the harmful consequences of intensive farming practices are the loss of up to 2.5 cm of topsoil every 15 years in the United States through erosion and the alarming rise in environmental pollution through widespread use of pesticides Countless other processes affecting the activity of soil microflora and the interactions between microorganisms and plants may pose an equal danger to soil equilibrium but their potential hazards are often overlooked because of an insufficient understanding of soil microbiology on the part of scientists In the first published study of its kind the authors of this book have attempted to address major aspects of the microbial activity of soil in the tropics Tropical conditions serve as an ideal context for a discussion of soil microbiology since biological processes in the soil are particularly active in tropical environments in comparison to other settings and in relation to physical and chemical processes

A Handbook of Tropical Soil Biology Fatima M. S. Moreira, E. Jeroen Huising, David E. Bignell, 2012-05-04 This practical handbook describes sampling and laboratory assessment methods for the biodiversity of a number of key functional groups of soil organisms including insects earthworms nematodes fungi and bacteria The methods have been assembled and the protocols drafted by a number of scientists associated with the UNEP GEF funded Conservation and Sustainable Management of Below Ground Biodiversity Project executed by the Tropical Soil Biology and Fertility TSBF Institute of the International Center for Tropical Agriculture CIAT The methods provide a standardized basis for characterizing soil biodiversity and current land uses in terrestrial natural semi natural and agroecosystems in tropical forests and at forest margins The aim is to assess soil biodiversity against current and historic land use practices both at plot and landscape scales and further to identify opportunities for improved sustainable land management through the introduction management or remediation of soil biota thus reducing the need for external inputs such as fertilizers and pesticides The book also contains extensive advice on the handling of specimens and the allocation of organisms to strain or functional group type Published with TSBF CIAT CTA UNEP and GEF

Soil Biology and Agriculture in the Tropics Patrice Dion, 2010-02-04 The relationships between soils microbes and humans are of crucial relevance in the tropics where plant stress and microbial activity are exacerbated This volume of Soil Biology presents the living component of tropical soils showing how it is shaped by environmental conditions and emphasizing its dramatic impact on human survival and well being Following an introduction to the specificities of tropical soils and of their microbial communities the biological aspects of soil management are examined dealing with land use change conservation and slash and burn agriculture the restoration of hot deserts agroforestry and paddy rice cultivation As

they are of particular relevance for tropical agriculture symbioses of plants and microbes are thoroughly covered as are the biodegradation of pesticides and health risks associated with wastewater irrigation Lastly traditional soil knowledge is discussed as a key to our sustainable presence in this world

Tropical Biology and Conservation Management - Volume V Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology

and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs *Tropical Biology and Conservation Management - Volume IX* Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in tem sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by

virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Diversity and Benefits of Microorganisms from the Tropics João Lucio de Azevedo, Maria Carolina Quecine, 2017-06-10 This book addresses the diversity of tropical microorganisms and its applications in agriculture renewable energy production and environmental protection It covers several tropical habitats such as rain forests mangroves sea and river waters and describes how microorganisms isolated from these regions can be used to control insects and plant diseases to improve sugar cane and biofuels production among other applications The book also aims to bring researchers attention to the potential of tropical microorganisms for biotechnological purposes an area that is still far from being well explored

Tropical Biology and Conservation Management - VI Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about

the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Tropical Biology and Conservation Management - Volume I Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and

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Tropical Biology and Conservation Management - Volume IV Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions

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Management - Volume III Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE

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Yahia,2011-09-19 Tropical and subtropical fruits are popular products but are often highly perishable and need to be transported long distances for sale The four volumes of Postharvest biology and technology of tropical fruits review essential aspects of postharvest biology postharvest technologies handling and processing technologies for both well known and lesser known fruits Volume 1 contains chapters on general topics and issues while Volumes 2 3 and 4 contain chapters focused on individual fruits organised alphabetically Volume 1 provides an overview of key factors associated with the postharvest quality of tropical and subtropical fruits Two introductory chapters cover the economic importance of these crops and their nutritional benefits Chapters reviewing the postharvest biology of tropical and subtropical fruits and the impact of preharvest conditions harvest circumstances and postharvest technologies on quality follow Further authors review microbiological safety the control of decay and quarantine pests and the role of biotechnology in the improvement of produce of this type Two chapters on the processing of tropical and subtropical fruit complete the volume With its distinguished editor and international team of contributors Volume 1 of Postharvest biology and technology of tropical and subtropical fruits along with the other volumes in the collection will be an essential reference both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Along with the other volumes in the collection Volume 1 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Focuses on fundamental issues of fruit physiology quality safety and handling relevant to all those in the tropical and subtropical fruits supply chain Chapters include nutritional and health benefits preharvest factors food safety and biotechnology and molecular biology The Role of Microbial Communities in Tropical Ecosystems Silvia Pajares,Brendan J.M. Bohannon,Valeria Souza,2017-01-13 Tropical ecosystems are different in important ways from those of temperate regions They are a major reservoir of plant and animal biodiversity and play important roles in global climate regulation and biogeochemical cycling They are also under great threat due to the conversion of tropical ecosystems to other uses Thus in the context of global change it is crucial to understand how environmental factors biogeographic patterns and land use changes interact to influence the structure and function of microbial communities in these ecosystems The contributions to this Research Topic

showcase the current knowledge regarding microbial ecology in tropical ecosystems identify many challenges and questions that remain to be addressed and open up new horizons in our understanding of the environmental and anthropological factors controlling microbial communities in these important ecosystems

Microbial Role in the Carbon Cycle in Tropical Inland Aquatic Ecosystems André Megali Amado,Fábio Roland,2017-03-15 Aquatic microorganisms are tidily related to the carbon cycle in aquatic systems especially in respect to its accumulation and emission to atmosphere In one hand the autotrophs are responsible for the carbon input to the ecosystems and trophic chain On the other hand the heterotrophs traditionally play a role in the carbon mineralization and since microbial loop theory may play a role to carbon flow through the organisms However it is not yet clear how the heterotrophs contribute to carbon retention and emission especially from tropical aquatic ecosystems Most of the studies evaluating the role of microbes to carbon cycle in inland waters were performed in high latitudes and only a few studies in the tropical area In the prospective of global changes where the warm tropical lakes and rivers become even warmer it is important to understand how microorganisms behave and interact with carbon cycle in the Earth region with highest temperature and light availability This research topic documented microbial responses to natural latitudinal gradients spatial within and between ecosystems gradients temporal approaches and temperature and nutrient manipulations in the water and in the sediment

District Laboratory Practice in Tropical Countries, Part 2 Monica Cheesbrough,2005 A practical and well illustrated guide to microbiological haematological and blood transfusion techniques The microbiology chapter focuses on common tropical infections The haematology chapter deals with the investigation of anaemia and haemoglobinopathies The blood transfusion chapter provides guidelines on the use of blood and blood substitutes selection of donors and collection

Chemical Biology of the Tropics Jorge M. Vivanco,Tiffany Weir,2011-04-28 The mystique of the rainforest has captured the imaginations of generations of young people explorers authors and biologists It is a delicate ecosystem whose myriad sounds and smells whose vibrancy of life is balanced by constant cycles of death and decay It is a place of fierce competition where unusual partnerships are forged and creative survival strategies are the norm In this book you will meet the scientific pioneers who first attempted to quantify and understand the vast diversity of these tropical forests as well as their successors who utilize modern tools and technologies to dissect the chemical nature of rainforest interactions This book provides a general background on biodiversity and the study of chemical ecology before moving into specific chemical examples of insect defenses and microbial communication It finishes with first hand accounts of the trials and tribulations of a canopy biology pioneer and a rainforest research novice while assessing the state of modern tropical research its importance to humanity and the ecological political and ethical issues that need to be tackled in order to move the field forward

Drinking Water Microbiology Gordon A. McFeters,2013-03-07 The microbiology of drinking water remains an important worldwide concern despite modem progress in science and engineering Countries that are more technologically advanced have experienced a significant reduction in

water borne morbidity within the last 100 years This reduction has been achieved through the application of effective technologies for the treatment disinfection and distribution of potable water However morbidity resulting from the ingestion of contaminated water persists globally and the available epidemiological evidence Waterborne Diseases in the United States G F Craun ed 1986 CRC Press demonstrates a dramatic increase in the number of waterborne outbreaks and individual cases within the United States since the mid 1960s In addition it should also be noted that the incidence of water borne outbreaks of unknown etiology and those caused by new pathogens such as *Campylobacter* sp is also increasing in the United States Although it might be debated whether these increases are real or an artifact resulting from more efficient reporting it is clear that waterborne morbidity cannot be ignored in the industrialized world More significantly it represents one of the most important causes of illness within developing countries Approximately one half the world's population experiences diseases that are the direct consequence of drinking polluted water Such illnesses are the primary cause of infant mortality in many Third World countries

Indigenous Fermented Foods for the Tropics Oluwafemi Ayodeji Adebo, Chiemela Enyinnaya Chinma, Adewale Olusegun Obadina, Antonio Gomes Soares, Sandeep K. Panda, Ren-You Gan, 2023-01-21 Indigenous Fermented Foods for the Tropics provides insights on fermented foods of the Tropics particularly Africa Asia and South America highlighting key aspects and potential developments for these food products Sections provide an overview on the production and composition nutritional physicochemical health beneficial and microbiota of these indigenous fermented foods in the tropics innovative techniques for investigating the composition of these fermented food products and improvement of the fermentation process to yield better nutritional constituents health beneficial components and sensory qualities and safety aspects to be considered in fermented foods Other sections provide insights into the packaging and marketing of these food products as well as future prospects of fermented foods in the tropics This book provides new perspectives and recent information to complement existing texts on indigenous fermented foods serving as a valuable reference text for detailed insights into indigenous fermented foods of the tropics Discusses fermented foods from the Africa Asia and South America based on the raw materials used Offers innovative techniques for improving these indigenous products and investigating their composition as well as upgrading traditional technologies used in the production of fermented products Covers the role of technology and innovations in the quest for enhancing quality and safety of fermented foods as demand for fermented food and beverage products is increased

Endophytes of the Tropics Adeline Su Yien Ting, 2020-07-20 Endophytes of the Tropics Diversity Ubiquity and Applications is a presentation of consolidated information on endophytes from the tropical region It provides a glimpse of the various species of endophytes in the tropics their host plants their applications in the various field and some of the challenges in endophytic research In short this book presents an overview of and the future of endophyte research in the tropics The book offers comprehensive coverage of the most essential topics including Diversity of endophytes in the tropics Beneficial application of tropical endophytes or their

derivatives Highlights on some valuable endophytic species from the tropics Some commercialized products based on tropical endophytes Challenges in researching endophytes Remedial strategies to advance research on tropical endophytes This book stands apart from others as it highlights on endophytes of the tropical regions associating the uniqueness of tropical endophytes with the rich plant diversity and ethnobotanical history There is therefore greater possibility that novel metabolites can be isolated from the endophytes which can be explored and harnessed for the benefit of mankind

Tropical Biology and Conservation Management - Volume XI Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI

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