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**Plant-Biology-for-Cultural-Heritage-Biodeterioration-and---**  
Plant biology for cultural heritage: biodeterioration and conservation. Ed. by Giulia Caneva et al. Getty Publications 2008 408 pages \$70.00 Paperback QK45 Even when not deliberately destroyed by people, cultural artifacts are always at the mercy of natural elements that eventually erode even marble statues.

Brings together wide-ranging scientific contributions from those who have studied the biological degradation of cultural heritages. It tackles both general topics (mechanisms of biodeterioration; correlation between biodeterioration and environment; and destructive organisms) and specific ones (the problems presented by different materials, environments, climatic conditions, and geographic settings). The contributors also discuss ways to diagnose, prevent, and control deterioration.

Coping with Biological Growth on Stone Heritage Objects: Methods, Products, Applications, and Perspectives offers hands-on guidance for addressing the specific challenges involved in conserving historical monuments, sculptures, archaeological sites, and caves that have been attacked and colonized by micro- and macroorganisms. The volume provides many case studies of removal of biological growth with practical advice for making the right choices. It presents detailed and updated information related to biocides and to alternative substances, features that will be valuable to dealing with these challenges. The author's goal is to provide access to information and offer the conceptual framework needed to understand complex issues, so that the reader can comprehend the nature of conservation problems and formulate her/his own views. From bacteria to plants, biological agents pose serious risks to the preservation of cultural heritage. In an effort to save heritage objects, buildings, and sites, conservators' activities aim to arrest, mitigate, and prevent the damages caused by bacteria, algae, fungi, lichens, plants, and birds. Although much has been learned about these problems, information is scattered across meeting proceedings and assorted journals that often are not available to restorers and conservators. This book fills the gap by providing a comprehensive selection and examination of international papers published in the last fifteen years, focusing on the appropriate methods, techniques, and products that are useful for the prevention and removal of micro- and macroorganisms that grow on artificial and natural stone works of art, including wall paintings. Results on new substances with antimicrobial properties and alternative methods for the control of biological growth are presented as well. The book also emphasize issues on bioreceptivity of stones and the factors influencing biological growth and includes an outline of the various organisms able to develop on stones, a discussion on the bioprotection of stones by biofilms and lichens, a review of the main analytical techniques, and a section on bioremediation. This volume will be a valuable reference for cultural heritage conservators and restorers, scientists, and heritage-site staff involved in conservation and maintenance of buildings, archaeological sites, parks, and caves.

This book contains forty reviewed papers delivered at the International Congress on Molecular Biology and Cultural Heritage held in Seville, March 2003. It is divided in four parts, the first one presents the state-of-the-art and reviews molecular techniques applied to the study of microbial communities colonizing monuments and cultural heritage assets. Part two covers specific molecular techniques used in biodeterioration studies, part three includes an updated overview on on-going biodeterioration European Commission projects, and part four presents selected biodeterioration case studies from all over the world.

This book provides detailed insights into the role of microorganisms and microbial products in biodeterioration, conservation and restoration of cultural heritage. Topics to be discussed are microbial colonization and their growth control on both artworks and aerosol of indoor environments such as libraries or museums, as well as human health hazard from exposure to microbial agents. In addition innovative biotechnological protocols and strategies for the removal of undesired layers on artwork surfaces are described in detail. Also the advances and perspectives in this emerging biotechnological field are discussed, supported by the latest original findings.

Since prehistoric times and throughout the course of human evolution, wood has been an integral part of all civilizations. Wooden Cultural Heritage can be found worldwide, providing valuable information on the social and economic context of human history. Nonetheless, as a natural cellulosic material, wood shows low resistance to biodeterioration and thus wooden Cultural Heritage often fails to escape decomposition in both aquatic and terrestrial ecosystems. This book provides a comprehensive overview on the biodeterioration of wooden Cultural Heritage and describes the decay mechanisms of key organisms and microorganisms encountered in aquatic and terrestrial ecosystems. Cultural Heritage professionals, researchers and academics may explore within this book the associations between deteriorogens, habitats and decay, which will assist them to understand wood biodeterioration and design effective prevention, mitigation and remediation strategies. The book presents case studies around the world to demonstrate the impact of biogenic deterioration on wooden Cultural Heritage and illustrates mechanisms and patterns in order to be a useful handbook of decay diagnosis. Lastly, by adopting a holistic approach to wood decay, basic concepts of wood technology, ecology, and deteriorogens' biology are introduced, permitting readers of different scientific backgrounds to easily comprehend wood biodeterioration.

Microclimate for Cultural Heritage: Conservation and Restoration of Indoor and Outdoor Monuments, Second Edition, is a cutting-edge, theoretical, and practical handbook concerning microclimate, environmental factors, and conservation of cultural heritage. Although the focus is on cultural heritage objects, most of the theory and instrumental methodologies are common to other fields of application, such as atmospheric and environmental sciences. Microclimate for Cultural Heritage, Second Edition, is a useful treatise on microphysics and a practical handbook for conservators and specialists in physics, chemistry, architecture, engineering, geology, and biology who work in the multidisciplinary field of the environment, and, in particular, in the conservation of works of art. Part I, devoted to applied theory, is a concise treatise on microphysics, which includes a survey on the basic ideas of environmental diagnosis and conservation. The second part of the book focuses on practical utilization, and shows in detail how field surveys should be performed, with many suggestions and examples, as well as some common errors to avoid. Presents updated scientific and technological findings based on the novel European standards on microclimate and cultural heritage Includes the latest information on experimental research on environmental factors and their impact on materials, such as the behavior of water and its interactions with cultural heritage materials Contains case studies of outdoor and indoor microclimate conditions and their effects, providing ideas for readers facing similar problems caused by heat, water, radiation, pollution, or air motions Covers instruments and methods for practical applications to help readers understand, to observe and interpret observations, and avoid errors

This open access book offers a comprehensive overview of the role and potential of microorganisms in the degradation and preservation of cultural materials (e.g. stone, metals, graphic documents, textiles, paintings, glass, etc.). Microorganisms are a major cause of deterioration in cultural artefacts, both in the case of outdoor monuments and archaeological finds. This book covers the microorganisms involved in biodeterioration and control methods used to reduce their impact on cultural artefacts. Additionally, the reader will learn more about how microorganisms can be used for the preservation and protection of cultural artefacts through bio-based and eco-friendly materials. New avenues for developing methods and materials for the conservation of cultural artefacts are discussed, together with concrete advances in terms of sustainability, effectiveness and toxicity, making the book essential reading for anyone interested in microbiology and the preservation of cultural heritage. .

Our country's cultural legacy is one of the world's most diverse, drawing millions of visitors every year to our convents and monuments, and to our museums, libraries, concert halls and festivals. In addition, it is a dynamic trigger of economic activity and jobs. Among the various scientific branches, microbial biotechnology offers an innovative and precise approach to the complexity of problems that restorers face in their daily work. This book discusses a range of topics, including the biodiversity of microbial communities from various cultural heritage monuments, microbial biotechnological cleaning techniques, the role of bacterial fungal communities for the conservation of cultural heritage, and microbial enzymes and their potential applications as biorestation agents. Written by internationally recognized experts, and providing up-to-date and detailed insights into microbial biotechnology approaches to cultural heritage monuments, the book is a valuable resource for biological scientists, especially microbiologists, microbial biotechnologists, biochemists and microbial biotechnologists.

The term biodiversity defines not only all the variety of life in the Earth but also their complex interactions. Under the current scenario of biodiversity loss, and in order to preserve it, it is essential to achieve a deep understanding on all the aspects related to the biological interactions, including their functioning and significance. This volume contains several contributions (nineteen in total) that illustrate the state of the art of the academic research in the field of biological interactions in its widest sense; that is, not only the interactions between living organisms are considered, but also those between living organisms and abiotic elements of the environment as well as those between living organisms and the humans.

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