

Syllabus Der Boden Luft Und Flechtenalgen

Mohammad Pessarakli

Syllabus der Boden-, Luft- und Flechtenalgen

Hanuš Ettl, Georg Gärtner, 2013-12-12 Algen spielen neben den Bakterien und Pilzen eine wichtige Rolle im Bodenleben. Zur Vertiefung der Kenntnis bodenbewohnender eukaryontischer Algen fehlte bisher ein Bestimmungswerk, das die weltweit verstreuten Daten zusammengefasst darstellt. Über 1000 Algenarten sind bislang aus Böden, aus der Luft und aus Flechten beschrieben, doch ist das Wissen über Lebensvorgänge, Reproduktion, Entwicklung usw. noch sehr lückenhaft. Auch sind viele Bodenalgen überhaupt nur mittels Kulturen erfassbar. Dieser Syllabus enthält deshalb für 260 Gattungen und mehr als 1000 Arten aeroterrestrischer Algen entsprechende Bestimmungsschlüssel, Beschreibungen von Morphologie und Zytologie samt Abbildungen, dazu noch ergänzende Hinweise auf Vorkommen, Verbreitung und vorhandene Kulturen. Ein Sonderkapitel ist dabei den eukaryontischen Flechtenalgen gewidmet. Die systematische Gliederung und Anordnung stellt einen Kompromiss zwischen den Auffassungen der klassischen und modernen Systematik unter besonderer Berücksichtigung der Lichtmikroskopie dar. Soweit möglich wurden neben der Originalliteratur auch Eigenbeobachtungen und Kulturen in die Bearbeitung mit einbezogen. An taxonomischen Namensänderungen und Neubeschreibungen ist die neue Familie Myrmeciaceae (Ordnung Chlorellales) hervorzuheben. Hinweise auf wichtige Literatur sollen zu weiterführenden Untersuchungen anregen. Im allgemeinen Teil finden sich wesentliche

Informationen über Ökologie, Bestimmung und Kulturmethoden bei Bodenalgen sowie übersichtliche Darstellungen der charakteristischen morphologischen und zytologischen Merkmale der behandelten Algengruppen. Seit dem Erscheinen der 1. Auflage sind zahlreiche weitere aeroterrestrische Algen beschrieben und taxonomische Änderungen vorgenommen worden. Hinweise dazu und die entsprechenden Literaturangaben samt Register sind als Ergänzungsteil nach den Bildtafeln und vor der Literatur des Hauptteils eingefügt.

Syllabus der Boden-, Luft- und Flechtenalgen.

Hanus Ettl, Georg Gärtner, 1995-10 Algen spielen neben den Bakterien und Pilzen eine wichtige Rolle im Bodenleben. Zur Vertiefung der Kenntnis bodenbewohnender eukaryontischer Algen fehlte bisher ein Bestimmungswerk, das die weltweit verstreuten Daten zusammengefasst darstellt. Über 1000 Algenarten sind bislang aus Boden, aus der Luft und aus Flechten beschrieben, doch ist das Wissen über Lebensvorgänge, Reproduktion, Entwicklung usw. noch sehr lückenhaft. Auch sind viele Bodenalgen überhaupt nur mittels Kulturen erfassbar. Dieser Syllabus enthält deshalb für 260 Gattungen und mehr als 1000 Arten erstmals in einer Zusammenstellung die entsprechenden Bestimmungsschlüssel, morphologischen Beschreibungen samt Abbildungen und dazu Hinweise auf Verbreitung und Vorkommen sowie auf vorhandene Kulturen. Ein Sonderkapitel ist dabei den eukaryontischen Flechtenalgen gewidmet. Hinweise auf wichtige Literatur sollen zu weiterführenden Untersuchungen anregen. Im

allgemeinen Teil finden sich wichtige Informationen Al/4ber A-kologie, Bestimmung und Kulturmethoden bei Bodenalggen sowie Al/4bersichtliche Darstellungen der wesentlichen morphologischen und zytologischen Merkmale der behandelten Alggenruppen.

Biological Soil Crusts: Structure, Function, and Management Jayne Belnap, Otto L. Lange, 2013-12-01

In arid lands, where vegetation is sparse or absent, the open ground is not bare but generally covered by a community of small, highly specialized organisms. Cyanobacteria, algae, microfungi, lichens, and bryophytes aggregate soil particles to form a coherent skin - the biological soil crust. It stabilizes and protects the soil surface from erosion by wind and water, influences water runoff and infiltration, and contributes nitrogen and carbon to desert soils. Soil surface disturbance, such as heavy livestock grazing, human trampling or off-road vehicles, breaks up the fragile soil crust, thus compromising its stability, structure, and productivity. This book is the first synthesis of the biology of soil crusts and their importance as an ecosystem component. Composition and functioning of different soil-crust types are discussed, and case studies are used to show the impact of crusts on landscape hydrology, soil stability, nutrient cycles, and land management.

Microbial life on Façades Wolfgang Karl Hofbauer, Georg Gärtner, 2021-03-10 This book provides a detailed overview of the microorganisms that form the initial growth on the exterior façades of buildings. It deals with the

ecophysiological properties that characterize the basic conditions under which these microorganisms can occur on façades. In addition to an identification key for the types and forms of microorganisms, this book provides a detailed description of the individual organisms, stating their ecological range. Furthermore, the various ecological parameters are discussed in short chapters. Measures to prevent and combat the colonization of façades with microorganisms are also addressed. Specialists (architects, construction experts), builders, scientists and master students can find all the information they need on facade algae and fungi here.

Algal And Cyanobacteria Symbioses Grube
Martin, Seckbach Joseph, Muggia Lucia, 2016-12-29
Owing to their importance as primary producers of energy and nutrition, algae and cyanobacteria are found as symbiotic partners across diverse lineages of prokaryotic and eukaryotic kingdoms. *Algal and Cyanobacteria Symbioses* presents a compilation of recent, updated research in fields of diverse symbioses, including in marine, freshwater, and terrestrial habitats. It gives a comprehensive overview of algal and cyanobacteria symbioses, including reviews on their diversity and information on symbiotic specificity and stress tolerance. Also covered is a review of regulatory mechanisms in the communication between symbiotic partners. The highly interdisciplinary character of this book is demonstrated through the range of algae and cyanobacteria as energy-providing symbionts in organismal lineages which are discussed. It is a valuable source of

knowledge for researchers, university lecturers, professors and students of biology and life sciences, specifically biochemistry, mycology, cell biology and plant-microbe interactions.

Freshwater Algae of North America John D. Wehr, Robert G. Sheath, J. Patrick Kociolek, 2015-06-05 Freshwater Algae of North America: Ecology and Classification, Second Edition is an authoritative and practical treatise on the classification, biodiversity, and ecology of all known genera of freshwater algae from North America. The book provides essential taxonomic and ecological information about one of the most diverse and ubiquitous groups of organisms on earth. This single volume brings together experts on all the groups of algae that occur in fresh waters (also soils, snow, and extreme inland environments). In the decade since the first edition, there has been an explosion of new information on the classification, ecology, and biogeography of many groups of algae, with the use of molecular techniques and renewed interest in biological diversity. Accordingly, this new edition covers updated classification information of most algal groups and the reassignment of many genera and species, as well as new research on harmful algal blooms. Extensive and complete Describes every genus of freshwater algae known from North America, with an analytical dichotomous key, descriptions of diagnostic features, and at least one image of every genus. Full-color images throughout provide superb visual examples of freshwater algae Updated Environmental Issues and Classifications, including new information on

harmful algal blooms (HAB) Fully revised introductory chapters, including new topics on biodiversity, and taste and odor problems Updated to reflect the rapid advances in algal classification and taxonomy due to the widespread use of DNA technologies

Hygrothermal Behavior, Building Pathology and Durability Vasco Peixoto de Freitas, J.M.P.Q. Delgado, 2012-08-29 The main purpose of this book, Hygrothermal, Building Pathology and Durability, is to provide a collection of recent research works to contribute to the systematization and dissemination of knowledge related to construction pathology, hygrothermal behaviour of buildings, durability and diagnostic techniques and, simultaneously, to show the most recent advances in this domain. It includes a set of new developments in the field of building physics and hygrothermal behaviour, durability approach for historical and old buildings and building pathology vs. durability. The book is divided in several chapters that are a resume of the current state of knowledge for benefit of professional colleagues, scientists, students, practitioners, lecturers and other interested parties to network.

Terricolous Lichens in India Himanshu Rai, Dalip K. Upreti, 2013-11-08 Terricolous lichens, a habitat specialist group of lichens play a vital role in maintenance and ecological stability of soil crusts with reference to their physical stability, hydrology and growth of soil microflora. Terricolous lichens in Indian lichenological studies haven't been taken up as a functional group. *Terricolous Lichens in India*,

Volume 1: Diversity Patterns and Distribution Ecology is the first ever publication dealing with soil lichens of India. Divided into five chapters, this volume discusses the lichenological researches in India with reference to terricolous lichens, the altitudinal distribution patterns of terricolous lichens, comparative assessment of distribution with global patterns, and the photobiont diversity and influence of novel molecular clades of photobiont in determining ecological preferences of soil lichens in India. Written by experts in the field and supplemented with numerous photographs, Terricolous Lichens in India, Volume 1: Diversity Patterns and Distribution Ecology is a comprehensive resource that addresses the major drivers of terricolous lichens distribution in India.

Enigmatic Microorganisms and Life in Extreme Environments Joseph Seckbach, 2013-12-01 Modern methods and approaches, such as the analysis of molecular sequences to infer evolutionary relationships among organisms, have provided vast new sets of data to further our understanding of living organisms, but there remain enigmas in the biological world that will keep scientists working and thinking for decades. Microorganisms by virtue of their small size and almost unbounded diversity provide ample examples of intriguing mysteries that are being challenged with all of the techniques the modern scientific arsenal can provide. One whole arena of this battle to resolve puzzling mysteries about various microorganisms is the almost unbelievable ability of many microorganisms to live in extreme environments. Whether

the challenge is extreme heat, cold, pressure, hyper salinity, alkalinity or acidity, some microorganisms live now where no life might seem possible. This fascinating state of affairs is the context for this present volume edited by Joseph Seckbach. This Volume is a compilation of many of the especially interesting questions and biological challenges that arise in the consideration of microorganisms in general and the extremophiles in particular.

Algae and Cyanobacteria in Extreme Environments

Joseph Seckbach, 2007-09-25 This collection of essays is devoted to algae that are unexpectedly found in harsh habitats. The authors explain how these algae thrive in various temperature ranges, extreme pH values, salt solutions, UV radiation, dryness, heavy metals, anaerobic niches, various levels of illumination, and hydrostatic pressure. Not only do the essays provide clues about life on the edges of the Earth, but possibly elsewhere in the universe as well.

Phytoplankton responses to human impacts at different scales Nico Salmaso, Luigi Naselli-Flores, Leonardo Cerasino, Giovanna Flaim, Monica Tolotti, Judit Padisák, 2015-03-21 Phytoplankton responses to human impact at different scales provides a state-of-the-art review of changes in the phytoplankton assemblages determined by human alterations of lakes and rivers. A wide spectrum of case studies describe the effects due to eutrophication and climate change, as well as other impacts connected with watershed management, hydrological alterations and introduction of non-indigenous species. The volume also includes two

wide reviews on planktonic coccoid green algae and planktic heterocytous cyanobacteria. This book is addressed to ecologists and scientists involved in phytoplankton ecology and taxonomy. Many case studies provide a sound scientific basis of knowledge for a wise management of water bodies. Previously published in *Hydrobiologia*, vol. 698, 2012

Unravelling the algae Juliet Brodie, Jane Lewis, 2007-11-26 Acting as titans in global control of the biosphere and colonizing virtually all corners of the earth, algae, extremely diverse and numerous oxygenic, photosynthetic organisms, can be major players in and drivers of environmental change. For hundreds of years, since their evolutionary origins by endosymbiosis, when a protozoan enslaved a cyanobacterium, fascinated scientists strove to uncover the mysteries of their diversity, interactions, taxonomy, and classification. Today, new molecular tools and technologies like chromatography and genetic fingerprinting reveal the innermost secrets of algal ancestry and phylogeny and open new possibilities to answering age-old questions. *Unravelling the algae: the past, present, and future of algal systematics* brings together the most respected minds in the field to review the state-of-the-science and assess the impact of molecular tools on the taxonomy of algal groups. Emphasizing that a range of traditional and molecular approaches are required, along with other techniques such as transmission electron microscopy, to support full interpretation of the data, the book discusses the extent to which these

tools broaden our understanding of the immense diversity of algae and revolutionize ideas of taxonomy and classification. Divided into three parts, the book introduces the very latest ideas on the evolution of algae and the concept of classification and illustrates contrasting viewpoints. The second section addresses systematics and covers virtually all algal groups ranging from microalgae to ultraplankton with individual chapters devoted to each. The final section explores the impact of genomics on algal systematics and concludes with a discussion of future directions for research. As the most up-to-date, authoritative source for classifying algae, this book provides unparalleled access to the encyclopedic information revealed by the use of the latest in molecular tools.

Climate Change, Ecology and Systematics Trevor R. Hodkinson, Michael B. Jones, Stephen Waldren, John A. N. Parnell, 2011-04-28 Climate change has shaped life in the past and will continue to do so in the future. Understanding the interactions between climate and biodiversity is a complex challenge to science. With contributions from 60 key researchers, this book examines the ongoing impact of climate change on the ecology and diversity of life on earth. It discusses the latest research within the fields of ecology and systematics, highlighting the increasing integration of their approaches and methods. Topics covered include the influence of climate change on evolutionary and ecological processes such as adaptation, migration, speciation and extinction, and the role of these processes in determining the diversity

and biogeographic distribution of species and their populations. This book ultimately illustrates the necessity for global conservation actions to mitigate the effects of climate change in a world that is already undergoing a biodiversity crisis of unprecedented scale.

Processes and Phenomena on the Boundary Between Biogenic and Abiogenic Nature Olga V. Frank-Kamenetskaya, Dmitry Yu. Vlasov, Elena G. Panova, Sofia N. Lessovaia, 2019-08-29 The book represents a collection of papers presented at VI International Symposium Biogenic - abiogenic interactions in natural and anthropogenic systems that was held on 24-27 September 2018 in Saint Petersburg (Russia). Papers in this book cover a wide range of topics connecting with interactions between biogenic and abiogenic components in lithosphere, biosphere and technosphere. The main regarding topics are following: methods for studying the interactions between biogenic and abiogenic components; geochemistry of biogenic-abiogenic systems; biomineralization and nature-like materials and technologies; medical geology; biomineralogy and organic mineralogy; biomineral interactions in soil; biodeterioration of natural and artificial materials; biomineral interactions in extreme environment.

Algal Culturing Techniques Robert A. Andersen, 2005-01-21 A comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae.

Handbook of Photosynthesis Mohammad Pessaraki, 2018-09-03 Since the publication of the previous editions of the Handbook of

Photosynthesis, many new ideas on photosynthesis have emerged in the past decade that have drawn the attention of experts and researchers on the subject as well as interest from individuals in other disciplines. Updated to include 37 original chapters and making extensive revisions to the chapters that have been retained, 90% of the material in this edition is entirely new. With contributions from over 100 authors from around the globe, this book covers the most recent important research findings. It details all photosynthetic factors and processes under normal and stressful conditions, explores the relationship between photosynthesis and other plant physiological processes, and relates photosynthesis to plant production and crop yields. The third edition also presents an extensive new section on the molecular aspects of photosynthesis, focusing on photosystems, photosynthetic enzymes, and genes. New chapters on photosynthesis in lower and monocellular plants as well as in higher plants are included in this section. The book also addresses growing concerns about excessive levels and high accumulation rates of carbon dioxide due to industrialization. It considers plant species with the most efficient photosynthetic pathways that can help improve the balance of oxygen and carbon dioxide in the atmosphere. Completely overhauled from its bestselling predecessors, the Handbook of Photosynthesis, Third Edition provides a nearly entirely new source on the subject that is both comprehensive and timely. It continues to fill the need for an authoritative and exhaustive resource

by assembling a global team of experts to provide thorough coverage of the subject while focusing on finding solutions to relevant contemporary issues related to the field.

Science, Technology and Cultural Heritage M.A. Rogerio-Candelera, 2014-12-01 The Second International Congress on Science and Technology for the Conservation of Cultural Heritage was held in Seville, Spain, June 24-27, 2014, under the umbrella of the TechnoHeritage network.

TechnoHeritage is an initiative funded by the Spanish Ministry of Economy and Competitiveness dedicated to the creation of a network which integrates CSIC and University groups, private companies and end users such as foundations, museums or institutions. The network's purpose is to foster the creation of transdisciplinary (and not only multidisciplinary) initiatives focused on the study of all assets, movable or immovable, that make up Cultural Heritage. The congress was dedicated to six topics, namely (1) Environmental assessment and monitoring (pollution, climate change, natural events, etc.) of Cultural Heritage; (2) New products and materials for conservation and maintenance of Cultural Heritage; (3) Agents and mechanisms of deterioration of Cultural Heritage (physical, chemical, biological), including deterioration of modern materials used in Contemporary Art and information storage; (4) Development of new instruments, non invasive technologies and innovative solutions for analysis, protection and conservation of Cultural Heritage; (5) Security technologies, remote sensing and G.I.S. for the protection and

management of Cultural Heritage; and (6) Significance, social value and policies for the conservation of Cultural Heritage. This volume publishes a total of seventy-two contributions which reflect some of the most recent responses to the challenge of cultural assets conservation and the application of different scientific approaches to the common goal of the conservation of Cultural Heritage.

Microbicides in Coatings Frank Sauer, 2017-07-04
All about biocides for coatings: When it comes to protecting coatings, it is essential to strike the right balance between controlling germs in order to avoid economic damage on the one hand and tolerating microbial life where it is necessary and useful on the other. The new book from Frank Sauer provides a comprehensive overview of the working mechanisms and possible applications of microbicides for coatings - invaluable for formulators and technicians as well as for business people with a basic knowledge of chemistry and biology.

Microbial Life of Cave Systems Annette Summers Engel, 2015-10-16
The earth's subsurface contains abundant and active microbial biomass, living in water, occupying pore space, and colonizing mineral and rock surfaces. Caves are one type of subsurface habitat, being natural, solutionally- or collapse-enlarged openings in rock. Within the past 30 years, there has been an increase in the number of microbiology studies from cave environments to understand cave ecology, cave geology, and even the origins of life. By emphasizing the microbial life of caves, and the

ecological processes and geological consequences attributed to microbes, this book provides the first authoritative and comprehensive account of the microbial life of caves for students, professionals, and general readers.

Ecohydrological Interfaces Stefan Krause, David M. Hannah, Nancy B. Grimm, 2023-10-12

Ecohydrological Interfaces Comprehensive overview of the process dynamics and interactions governing ecohydrological interfaces Summarizing the interdisciplinary investigation of ecohydrological interface functioning, Ecohydrological Interfaces advances the understanding of their dynamics across traditional subject boundaries. It offers a detailed explanation of the underlying mechanisms and process interactions governing ecohydrological interface functioning from the micro scale to the ecosystem and regional scale. The multidisciplinary team of authors integrates and synthesises the current understanding of process dynamics at different ecohydrological interfaces to develop a unifying concept of their ecosystem functions. The work introduces novel experimental and model-based methods for characterizing and quantifying ecohydrological interface processes, taking account of innovative sensing and tracing technologies as well as microbial and molecular biology approaches. Key questions addressed in the book include: Which conditions stimulate the transformative nature of ecohydrological interfaces? How are ecohydrological interfaces organized in space and time? How does interface activity propagate from small to large scales? How do ecohydrological interfaces react to

environmental change and what is their role in processes of significant societal value? As a research level text on the functionality and performance of ecohydrological interfaces, *Ecohydrological Interfaces* is primarily aimed at academics and postgraduate researchers. It is also appropriate for university libraries as further reading on a range of geographical, environmental, biological, and engineering topics.

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