



Microbial Respiration

Walter P. Hempfling

Microbial Respiration:

Microbial Respiration Walter P. Hempfling,1979

Microbial Respiration in Soil Cinthia Kleis Johnson,1993

The

Microbial Regulation of Global Biogeochemical Cycles Johannes Rousk,Per Bengtson,2014-10-17 Global biogeochemical cycles of carbon and nutrients are increasingly affected by human activities So far modeling has been central for our understanding of how this will affect ecosystem functioning and the biogeochemical cycling of carbon and nutrients These models have been forced to adopt a reductive approach built on the flow of carbon and nutrients between pools that are difficult or even impossible to verify with empirical evidence Furthermore while some of these models include the response in physiology ecology and biogeography of primary producers to environmental change the microbial part of the ecosystem is generally poorly represented or lacking altogether The principal pool of carbon and nutrients in soil is the organic matter The turnover of this reservoir is governed by microorganisms that act as catalytic converters of environmental conditions into biogeochemical cycling of carbon and nutrients The dependency of this conversion activity on individual environmental conditions such as pH moisture and temperature has been frequently studied On the contrary only rarely have the microorganisms involved in carrying out the processes been identified and one of the biggest challenges for advancing our understanding of biogeochemical processes is to identify the microorganisms carrying out a specific set of metabolic processes and how they partition their carbon and nutrient use We also need to identify the factors governing these activities and if they result in feedback mechanisms that alter the growth activity and interaction between primary producers and microorganisms By determining how different groups of microorganisms respond to individual environmental conditions by allocating carbon and nutrients to production of biomass CO₂ and other products a mechanistic as well as quantitative understanding of formation and decomposition of organic matter and the production and consumption of greenhouse gases can be achieved In this Research Topic supported by the Swedish research councils programme Biodiversity and Ecosystem Services in a Changing Landscape BECC we intend to promote this alternative framework to address how cycling of carbon and nutrients will be altered in a changing environment from the first principle mechanisms that drive them namely the ecology physiology and biogeography of microorganisms and on up to emerging global biogeochemical patterns This novel and unconventional approach has the potential to generate fresh insights that can open up new horizons and stimulate rapid conceptual development in our basic understanding of the regulating factors for global biogeochemical cycles The vision for the research topic is to facilitate such progress by bringing together leading scientists as proponents of several disciplines By bridging Microbial Ecology and Biogeochemistry connecting microbial activities at the micro scale to carbon fluxes at the ecosystem scale and linking above and belowground ecosystem functioning we can leap forward from the current understanding of the global biogeochemical cycles

The Rhizosphere Sidney Willig,Zeno Varanini,Paolo

Nannipieri,2000-11-17 Summarizing data on the processes that occur in soil plant interaction this text emphasizes the

biochemistry and the role of organic compounds in the rhizosphere environment It considers developments in experimental approaches to the biochemical and molecular interaction among plants microbes and soil components **Proceedings of the 2013 International Conference on Material Science and Environmental Engineering-2013** Dr. Qingzhou

Xu,2013-09-05 MSEE2013 will provide an excellent international academic forum for sharing knowledge and results in theory methodology and applications on material science and environmental engineering In the proceedings you can learn much more knowledge about the newest research results on material science and advanced materials material engineering and application environment protection and sustainable development and environmental science and engineering all around the world General Technical Report NE ,1980 *Facing Marine Deoxygenation* Arthur Capet,Perran Cook,Aurélien

Paulmier,Christophe Rabouille,Raquel Vaquer-Sunyer,Babette Hoogakker,Emilio Garcia-Robledo,2020-03-09 **Microbial Ecology of the Oceans** David L. Kirchman,2008-06-23 In addition to drawing on the rich history of microbiology the book includes discussion of the latest advances in biological and chemical oceanography and limnology to examine the role of marine microbes and viruses in the oceans It explores the diverse collection of microbes and viruses found in the oceans and describes many of the processes mediated by these microbes in aquatic environments Although oceans are emphasized the organisms and processes discussed in the book occur in nearly all natural environments including rivers and lakes

Proceedings, 1995 Meeting of the Northern Global Change Program Northern Global Change Program (U.S.). Meeting,1996 **Biogeochemistry of Wetlands** K. Ramesh Reddy,Ronald D. DeLaune,2008-07-28 Wetland ecosystems maintain a fragile balance of soil water plant and atmospheric components in order to regulate water flow flooding and water quality Marginally covered in traditional texts on biogeochemistry or on wetland soils Biogeochemistry of Wetlands is the first to focus entirely on the biological geological physical and chemical Canadian Journal of Forest Research ,2014-05

Modeling Microbial Respiration Paul Igboji,Prof Paul Ola Igboji Phd,2016-07-31 Microorganisms are major agents by which C and energy move through the soil Soils provide a major source and sink for greenhouse gases particularly CO₂ CH₄ and N₂O The global C cycle Pidwimy 2005 RCEP 1996 Houghton and Hackler 1995 The world's soils represent a very large reservoir of C The amount of C in decaying plant litter and soil organic matter SOM may exceed the amount in living biomass by a factor of 2 or 3 RCEP 1996 EE 1993 A pool of 9 322 Mt C is present in British soils peat and litter and 114 Mt C in British vegetation with 80% of this value in forests and woodlands The release of CO₂ from soils is a natural process occurring through the oxidation of SOM and plant litter by microbial populations The rate at which CO₂ is released depends on land use and soil management Accelerated loss can be triggered by the changes in land use for example when forests or grasslands are converted to arable cropping RCEP 1996 C can accumulate in soil when arable land is converted to grassland or forest but it takes about ten times longer to build up soil C following conversion to pasture than it takes to deplete C stocks after pasture land has been ploughed RCEP 1996 It has been observed that C accumulates much more slowly

following a change from arable to pasture 49 t C ha⁻¹ might be added over 275 years half of it in the first 38 years RCEP 1996 Cannel et al 1994 Human influence on the natural cycle has resulted in the accelerated release as atmospheric CO₂ contained in the chalk limestone and fossil fuels formed over a very long time from oceanic sediments RCEP 1996 Living cells need a constant supply of energy which for heterotrophic microflora is derived from the transformation of organic matter such as cellulose proteins nucleotides and humified compounds Energy supplying reactions in the cell are redox reactions based on the transfer of electrons from a donor to an acceptor Through aerobic respiration that is the oxidation of organic matter by aerobic micro organisms oxygen functions as the terminal acceptor of the electrons The metabolic activities of soil micro organisms can therefore be quantified by measuring the CO₂ production or O₂ consumption Alef 1995 Nannipieri et al 1990 Soil respiration is one of the oldest and still most frequently used parameters for quantifying microbial activities in soils Kieft and Rosacker 1991 Basal respiration is defined as respiration without the addition of organic substance to soil Substrate induced respiration SIR is the soil respiration measured in the presence of an added substrate such as glucose Respiration is not only restricted to micro organisms but it is also carried out by other organisms inhabiting the soils Like other metabolic activities it depends on the physiological state of the cells and is influenced by different factors in the soil Alef 1995 Respiration is influenced by soil moisture temperature the availability of nutrients soil structure and tillage Air drying significantly reduces soil respiration Re moistened soils however show very high initial activities probably as a result of the high concentrations of easily degradable organic compounds such as amino and organic acids caused by chemical and physical processes at the moistening of dry soils Clark and Kemper 1967 Anderson 1975 Wilson and Griffin 1975a 1975b Kowalenko et al 1978 Krockel and Stolp 1986 Kieft et al 1987 The re moistening of air dry soils containing carbonate also causes the release of abiotic CO₂ In this case it is recommended that the O₂ consumption is measured Anderson 1982 Kieft et al 1987 Soil respiration decreases with the depth of soil and correlates significantly with SOM Corg and most microbial parameters This book describes additional benefits of using CENTURY 4.0 model to simulate microbial respiration

Kinetics of Microbial Respiration Qusheng Jin, 2003 *Science Reports of the Tōhoku University*, 2001

Microbial Metal Respiration Johannes Gescher, Andreas Kappler, 2014-02-21 Microbes can respire on metals This seemingly simple finding is one of the major discoveries that were made in the field of microbiology in the last few decades The importance of this observation is evident Metals are highly abundant on our planet Iron is even the most abundant element on Earth and the forth most abundant element in the Earth's crust Hence in some environments iron but also other metals or metalloids are the dominant respiratory electron acceptors Their reduction massively drives the carbon cycle in these environments and establishes redox cycles of the metallic electron acceptors themselves These redox cycles are not only a driving force for other biotic reactions but are furthermore necessary for initiating a number of geochemically relevant abiotic redox conversions Although widespread and ecologically influential electron transfer onto metals like ferric iron or

manganese is biochemically challenging. The challenge is to transfer respiratory electrons onto metals that occur in nature at neutral pH in the form of metal oxides or oxihydroxides that are effectively insoluble. Obviously it is necessary that the microbes specially adapt in order to catalyze the electron transfer onto insoluble electron acceptors. The elucidation of these adaptations is an exciting ongoing process. To sum it up dissimilatory metal reduction has wide spread implications in the field of microbiology, biochemistry and geochemistry and its discovery was one of the major reasons to establish a novel scientific field called geomicrobiology. Recently the discovery of potential applications of dissimilatory metal reducers in bioremediation or current production in a microbial fuel cell further increased the interest in studying microbial metal reduction.

Microbial Respiration and Production Rates in Massachusetts Bay Tara Toolan, 1996 **Proceedings of the Society for Experimental Biology and Medicine** Society for Experimental Biology and Medicine (New York, N.Y.), 1926 List of members in each volume *Chemical Abstracts*, 1928 **Government Reports Announcements & Index**, 1988 **Public Health Reports**, 1930

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