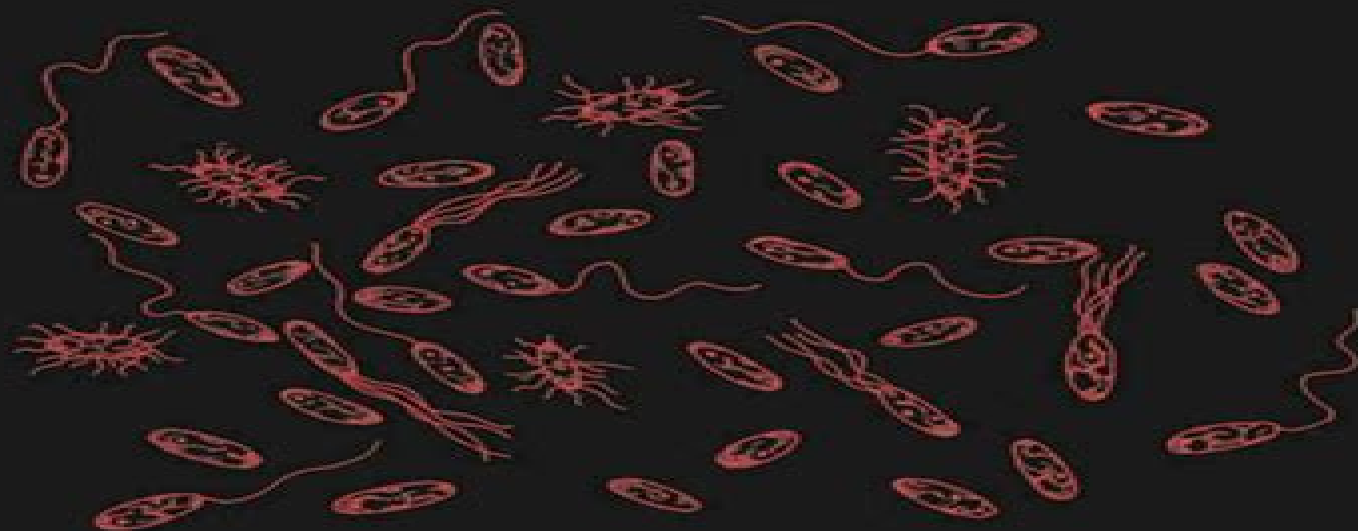


The Microbiology of Anaerobic Digesters



MICHAEL H. GERARDI

Microbiology Of Anaerobic Digesters

**Sandra M. Stronach, Thomasine
Rudd, John N. Lester**



Microbiology Of Anaerobic Digesters:

The Microbiology of Anaerobic Digesters Michael H. Gerardi, 2003-09-19 Anaerobic digestion is a biochemical degradation process that converts complex organic material such as animal manure into methane and other byproducts Part of the author's Wastewater Microbiology series Microbiology of Anaerobic Digesters eschews technical jargon to deliver a practical how to guide for wastewater plant operators

Current Advances in Anaerobic Digestion Technology Marcell Nikolausz, 2021-03-17 Anaerobic digestion AD is one of the oldest biotechnological processes and originally referred to biomass degradation under anoxic conditions in both natural and engineered systems It has been used for decades to treat various waste streams and to produce methane rich biogas as an important energy carrier and it has become a major player in electrical power production AD is a popular mature technology and our knowledge about the influencing process parameters as well as about the diverse microbial communities involved in the process has increased dramatically over the last few decades To avoid competition with food and feed production the AD feedstock spectrum has constantly been extended to waste products either rich in recalcitrant lignocellulose or containing inhibitory substances such as ammonia which requires application of various pre treatments or specific management of the microbial resources Extending the definition of AD it can also convert gases rich in hydrogen and carbon dioxide into methane that can substitute natural gas which opens new opportunities by a direct link to traditional petrochemistry Furthermore AD can be coupled with emerging biotechnological applications such as microbial electrochemical technologies or the production of medium chain fatty acids by anaerobic fermentation Ultimately because of the wide range of applications AD is still a very vital field in science This Special Issue highlights some key topics of this research field

Anaerobic Digestion Processes in Industrial Wastewater Treatment Sandra M. Stronach, Thomasine Rudd, John N. Lester, 2012-12-06 There have been many significant microbiological biochemical and technological advances made in the understanding and implementation of anaerobic digestion processes with respect to industrial and domestic wastewater treatment Elucidation of the mechanisms of anaerobic degradation has permitted a greater control over the biological parameters of waste conversion and the technical advances achieved have reduced the time and land area requirements and increased the cost effectiveness and efficiency of the various processes presently in use By product recovery in the form of utilisable methane gas has become increasingly feasible while the development of new and superior anaerobic reactor designs with increased tolerance to toxic and shock loadings of concentrated effluents has established a potential for treating many extremely recalcitrant industrial wastestreams The major anaerobic bioreactor systems and their applications and limitations are examined here together with microbiological and biochemical aspects of anaerobic wastewater treatment processes London June 1986 S M Stronach T Rudd J N Lester v Table of Contents 1 The Biochemistry of Anaerobic Digestion 1 1 1 Kinetics of Substrate Utilisation and Bacterial Growth 3 1 1 1 COD Fluxes and Mean Carbon Oxidation State 3 1 1 2 Bacterial Growth and Biokinetics 4 1 1 2 1

Growth and Single Substrate Kinetics 4 1 1 2 2 Multisubstrate Systems 8 1 2 Kinetics and Biochemistry of Hydrolysis 8 1 3 Kinetics and Biochemistry of Fermentation and J1 Oxidation 11 1 *Wastewater Microbiology* Gabriel Bitton, 2005-05-27 The new edition of a classic reference incorporating the latest findings and discoveries The Third Edition of this classic reference provides readers with concise up to the moment coverage of the role of microorganisms in water and wastewater treatment By providing a solid foundation in microbiology microbial growth metabolism and nutrient cycling the text gives readers the tools they need to make critical decisions that affect public health as well as the practical aspects of treatment disinfection water distribution bioremediation and water and wastewater reuse The publication begins a discussion of microbiology principles followed by a discussion of public health issues and concerns Next the core of the text is dedicated to a thorough examination of wastewater and drinking water treatment biosolids pollution control biotechnology and drinking water distribution The remainder of the text discusses toxicity testing in wastewater treatment plants and the public health aspects of wastewater disposal and reuse The many advances in wastewater and drinking water microbiology have all been thoroughly integrated into the publication including A new chapter on bioterrorism and drinking water safety The latest developments in biofilm microbial ecology and biofilm impact on drinking water quality New state of the art detection techniques Expanded and revised treatment of toxicity testing including new testing methods and studies on endocrine disrupters in wastewater Alternatives to conventional wastewater treatment New problem sets which test readers knowledge as well as a list of Internet resources have been added to each chapter In addition the publication s extensive references have been thoroughly revised for readers who would like to learn more about the latest findings and discoveries on specialized topics Finally the color plate section has been expanded and contains many new illustrations and tables An authoritative guide for all researchers administrators and engineers in the field of microbiology *Wastewater Microbiology* Third Edition is also a valuable reference for civil and environmental engineers public health officials and students involved in environmental engineering and science **Biomethanation I** Birgitte K. Ahring, 2003-07-03 Anaerobic digestion is a major field for the treatment of waste and wastewater Lately the focus has been on the quality of the effluent setting new demands for pathogen removal and for successful removal of unwanted chemicals during the anaerobic process The two volumes on Biomethanation are devoted to presenting the state of art within the science and application of anaerobic digestion They describe the basic microbiological knowledge of importance for understanding the processes of anaerobic bioreactors along with the newest molecular techniques for examining these systems In addition the applications for treatment of waste and wastewaters are presented along with the latest knowledge on process control and regulation of anaerobic bioprocesses Together these two volumes give an overview of a growing area which previously has never been presented in such a comprehensive way *Anaerobic Digestion of Biomass* D.P. Chynoweth, Isaacson, 1987-07-31 Fermentation Processes Angela Jozala, 2017-02-08 Fermentation is a theme widely useful for food feed and biofuel production Indeed each of these areas food

industry animal nutrition and energy production has considerable presence in the global market Fermentation process also has relevant applications on medical and pharmaceutical areas such as antibiotics production The present book *Fermentation Processes* reflects that wide value of fermentation in related areas It holds a total of 14 chapters over diverse areas of fermentation research

Nitrification and Denitrification in the Activated Sludge Process Michael H. Gerardi, 2003-03-19 Nitrification and Denitrification in the Activated Sludge Process the first in a series on the microbiology of wastewater treatment comprises the critical topics of cost effective operation permit compliance process control and troubleshooting in wastewater treatment plants Avoiding the technical jargon chemical equations and kinetics that typically accompany such texts Nitrification and Denitrification in the Activated Sludge Process directly addresses plant operators and technicians providing necessary information for understanding the microbiology and biological conditions that occur in the treatment process Of special interest to wastewater treatment plant operators are the bacteria that degrade nitrogenous wastes the nitrifying bacteria and the bacteria that degrade carbonaceous wastes the cBOD removing bacteria Both groups of bacteria need to be routinely monitored and operational conditions favorably adjusted to ensure desired nitrification Each chapter in this groundbreaking study offers a better understanding of the importance of nitrification and denitrification and the bacteria involved in these crucial processes Chapters include Organotrophs The Wastewater Nitrogen Cycle Nitrite Ion Accumulation Dissolved Oxygen Denitrifying Bacteria Gaseous End Products Free Molecular Oxygen The Occurrence of Denitrification

Biogas from Waste and Renewable Resources Dieter Deublein, Angelika Steinhauser, 2008-04-18 Written as a practical introduction to biogas plant design and operation this book fills a huge gap by presenting a systematic guide to this emerging technology information otherwise only available in poorly intelligible reports by US governmental and other official agencies The author draws on teaching material from a university course as well as a wide variety of industrial biogas projects he has been involved with thus combining didactical skill with real life examples Alongside biological and technical aspects of biogas generation this timely work also looks at safety and legal aspects as well as environmental considerations

Environmental Microbiology Ralph Mitchell, Ji-Dong Gu, 2010-01-08 The bestselling reference on environmental microbiology now in a new edition This is the long awaited and much anticipated revision of the bestselling text and reference Based on the latest information and investigative techniques from molecular biology and genetics this Second Edition offers an in depth examination of the role of microbiological processes related to environmental deterioration with an emphasis on the detection and control of environmental contaminants Its goal is to further our understanding of the complex microbial processes underlying environmental degradation its detection and control and ultimately its prevention Features new to this edition include A completely new organization with topics such as pathogens in developing countries effects of genetically modified crops on microbial communities and transformations of toxic metals Comprehensive coverage of key topics such as bacteria in the greenhouse and low energy waste treatment New coverage relating core book content to local

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Bioprospecting of Microorganism-Based Industrial Molecules Sudhir Pratap Singh, Santosh Kumar

Upadhyay, 2021-12-13 Discover a comprehensive and current overview of microbial bioprospecting written by leading voices in the field In Bioprospecting of Microorganism Based Industrial Molecules distinguished researchers and authors Sudhir P Singh and Santosh Kumar Upadhyay deliver global perspectives of bioprospecting of biodiversity The book covers diverse aspects of bioprospecting of microorganisms demonstrating biomass value of nutraceutical pharmaceutical biomedical and bioenergetic importance The authors present an amalgamation of translational research on bioresource utilization and ecological sustainability that will further the reader's knowledge of the applications of different microbial diversity and reveal new avenues of research investigation Readers will also benefit from A thorough introduction to microbial biodiversity and bioprospecting An exploration of anti ageing and skin lightening microbial products and microbial production of anti cancerous biomolecules A treatment of UV protective compounds from algal biodiversity and polysaccharides from marine microalgal sources Discussions of microbial sources of insect toxic proteins and the role of microbes in bio surfactants production Perfect for academics scientists researchers graduate and post graduate students working and studying in the areas of microbiology food biotechnology industrial microbiology plant biotechnology and microbial biotechnology Bioprospecting of Microorganism Based Industrial Molecules is an indispensable guide for anyone looking for a comprehensive overview of the subject *The Biogas Handbook* Arthur Wellinger, J. Patrick Murphy, David

Baxter, 2013-02-19 The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology Handbook of Water and Wastewater

Microbiology Duncan Mara, Nigel J. Horan, 2003-08-07 Access to safe water is a fundamental human need and therefore a basic human right Kofi Annan United Nations Secretary General Edited by two world renowned scientists in the field The Handbook of Water and Wastewater Microbiology provides a definitive and comprehensive coverage of water and wastewater microbiology With contributions from experts from around the world this book gives a global perspective on the important issues faced in the provision of safe drinking water the problems of dealing with aquatic pollution and the processes involved in wastewater management Starting with an introductory chapter of basic microbiological principles The Handbook of Water and Wastewater Microbiology develops these principles further ensuring that this is the essential text for process engineers with little microbiological experience and specialist microbiologists alike Comprehensive selection of reviews dealing with drinking water and aquatic pollution Provides an understanding of basic microbiology and how it is

applied to engineering process solutions Suitable for all levels of knowledge in microbiology from those with no background to specialists who require the depth of information *Anaerobic Technology in Pulp and Paper Industry* Pratima

Bajpai,2017-03-14 This book presents a state of the art report on the treatment of pulp and paper industry effluents using anaerobic technology It covers a comprehensive range of topics including the basic reasons for anaerobic treatment comparison between anaerobic and aerobic treatment effluent types suitable for anaerobic treatment design considerations for anaerobic treatment anaerobic reactor configurations applied for treatment of pulp and paper industry effluents present status of anaerobic treatment in pulp and paper industry economic aspects examples of full scale installations and future trends *Anaerobic Digestion Processes* Nigel Horan,Abu Zahrim Yaser,Newati Wid,2018-12-29 This book presents new

application processes in the context of anaerobic digestion AD such as phosphorus recovery microbial fuel cells MFCs and seaweed digestion In addition it introduces a new technique for the modeling and optimization of AD processes Chapters 1 and 2 review AD as a technique for converting a range of organic wastes into biogas while Chapter 3 discusses the recovery of phosphorus from anaerobically digested liquor Chapters 4 and 5 focus on new techniques for modeling and optimizing AD Chapters 6 and 7 then describe the state of the art in AD effluent treatment The book s final three chapters focus on more recent developments including microbial fuel cells MFCs Chapter 8 seaweed production Chapter 9 and enzyme technologies Chapter 10 **Anaerobic Digestion Model** Damien Batstone,2006-05-31 Selected papers from the 1st International Workshop on the IWA Anaerobic Digestion Model No 1 ADM1 held in Lyngby Copenhagen Denmark September 4 6 2005 The areas of applications and extensions presented here are extremely diverse ranging from pragmatic analysis of standardized systems by industrial engineers and integration with larger projects to detailed analysis of competition between known microbial populations by microbiologists Some key grey areas originally identified by the IWA Task Group as incomplete such as glucose fermentation are also addressed in considerable detail The papers presented here embody high level applications of ADM1 and offer real developments to its users and this issue therefore forms both a valuable companion volume the to STR and a collection of original exciting research in its own right **Biomethanization of the Organic Fraction of**

Municipal Solid Wastes J. Mata-Alvarez,2003 **Microbiology of Anaerobic Digestion** Perry L. McCarty,John S.

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