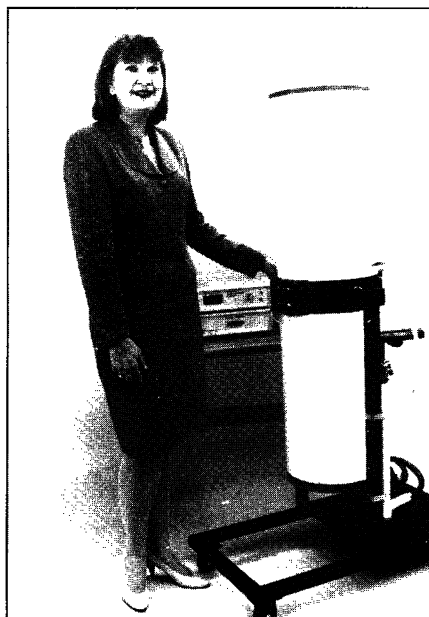


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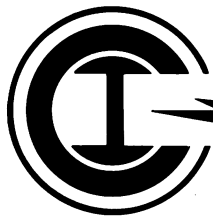
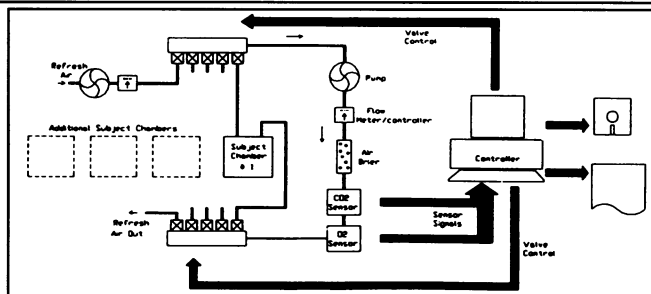
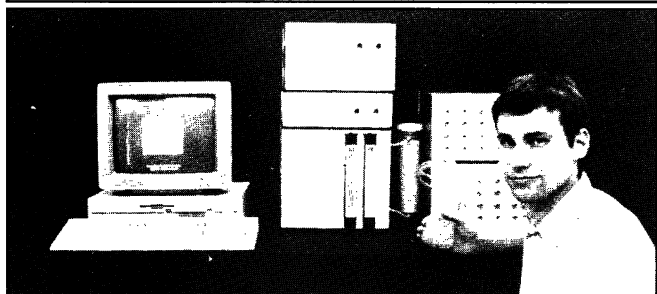
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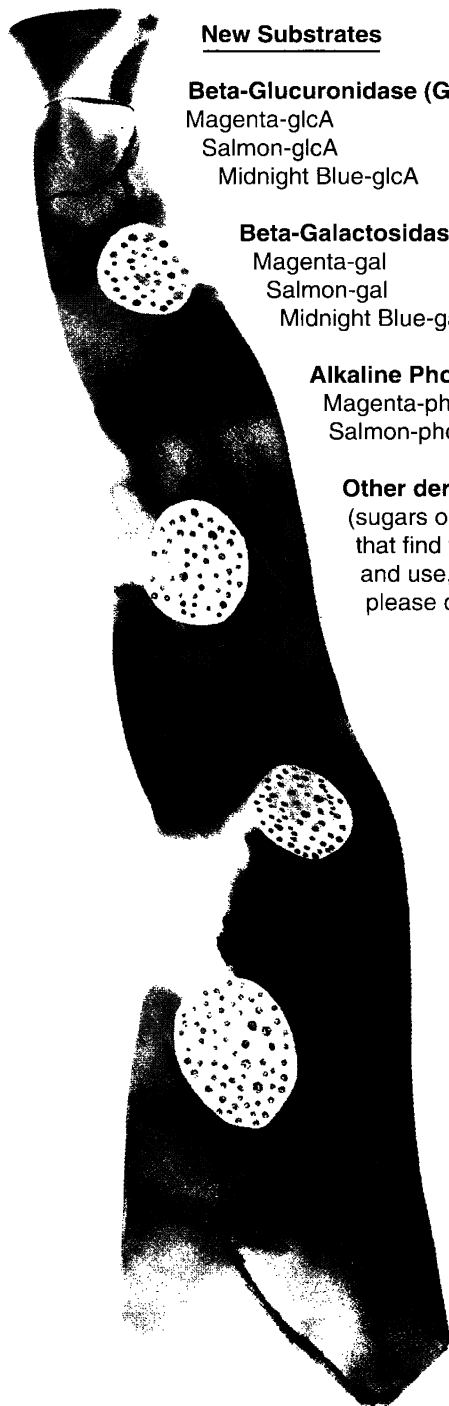
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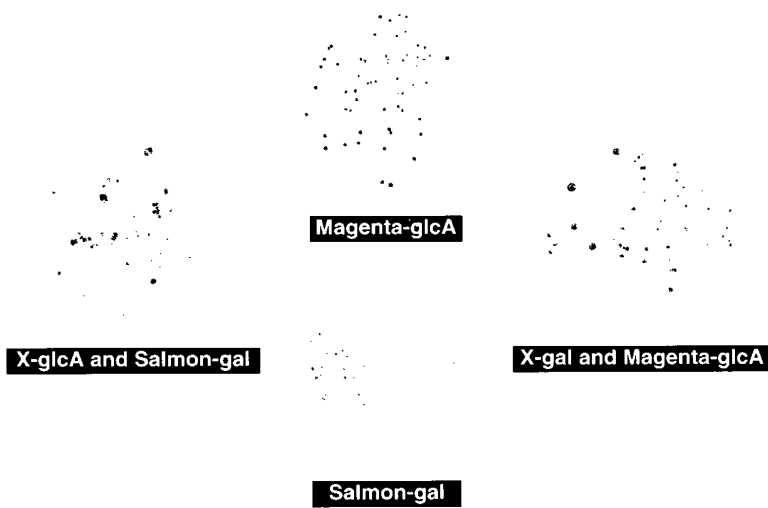
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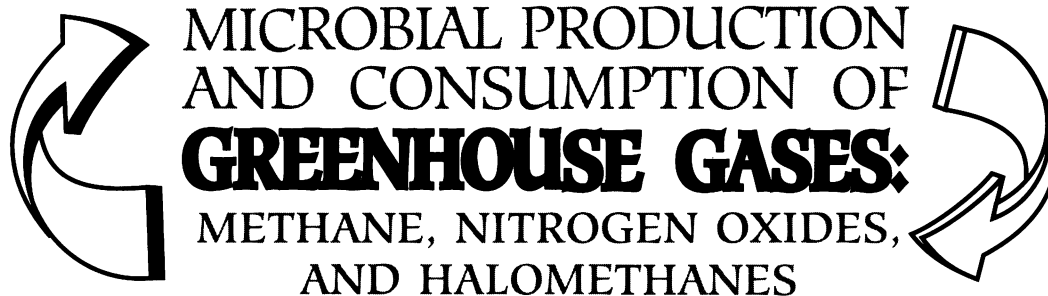
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A very timely examination of microbial processes that affect global climate



MICROBIAL PRODUCTION AND CONSUMPTION OF GREENHOUSE GASES:

METHANE, NITROGEN OXIDES, AND HALOMETHANES

Edited by
John E. Rogers, *Environmental Protection Agency, Athens, Georgia*,
 and
William B. Whitman, *University of Georgia, Athens*

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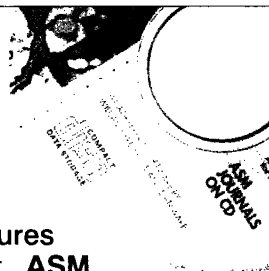
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Edited by Judith N. Wasserheit, Sevgi O. Aral, and King K. Holmes;
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This fascinating monograph is a collaborative effort by an interdisciplinary group of experts in behavioral sciences, sexually transmitted diseases (STDs), epidemiology, biostatistics, clinical trials, and health education from throughout the world, brought together under the auspices of the National Institute of Allergy and Infectious Diseases. Their common goal was to define a revolutionary new agenda for intervention-oriented behavioral research into the prevention and control of STDs, in both industrialized and developing countries, which addresses STD research through interdisciplinary approaches. This book is intended not only for established investigators but for students of a wide range of clinical and social sciences.

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Microbial Cell Surface Hydrophobicity

Edited by R. J. Doyle and Mel Rosenberg

Despite the voluminous journal literature on the hydrophobicity of microorganisms, its structural basis, and its role in microbial adhesion to surfaces, in differentiation, and in morphogenesis, this is the first book devoted to this subject. There has been a growing realization that hydrophobic interactions play a role in many, if not most, microbial adhesion phenomena, including microbial adhesion to soft host tissues, implants and prostheses, contact lenses, glass, oil, steel, teeth, submerged aquatic surfaces, plants, and fish. The authors in this book were selected based on their substantial contributions to the field. Medical, applied, and environmental microbiologists; environmental, microbial, and petroleum engineers; infectious-disease physicians and researchers; and oral biologists will all benefit from this excellent summary and review.

CONTENTS

Microbial Cell Surface Hydrophobicity: History, Measurement, and Significance (*M. Rosenberg and Doyle*); Nature of the Hydrophobic Effect (*Duncan-Hewitt*); Microbial Hydrophobicity and Fermentation Technology (*Mozes and Rouxhet*); Role of Hydrophobic Interactions in Microbial Adhesion to Plastics Used in Medical Devices (*Klotz*); Hydrophobicity of Proteins and Bacterial Fimbriae (*Irvin*); Adhesion of Bacteria to Plant Cells (*Smit and Stacey*); Hydrophobicity in the Aquatic Environment (*Bar-Or*); Changes in Bacterial Surface Hydrophobicity during Morphogenesis and Differentiation (*E. Rosenberg and Sar*); Cell Surface Hydrophobicity of Medically Important Fungi, especially *Candida* Species (*Hazen*); Significance of Hydrophobicity in the Adhesiveness of Pathogenic Gram-Negative Bacteria (*Lachica*); Hydrophobic Characteristics of Staphylococci (*Wadstrom*); Relative Importance of Surface Free Energy as a Hydrophobicity Measure in Bacterial Adhesion to Solid Surfaces (*Busscher, Sjollem, and van der Mei*); Hydrophobicity of Group A Streptococci and Its Relationship to Adhesion of Streptococci to Host Cells (*Courtney, Hastay, and Ofek*); Hydrophobicity of Oral Bacteria (*Doyle, M. Rosenberg, and Drake*)

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MICROBIAL PRODUCTION AND CONSUMPTION OF GREENHOUSE GASES: METHANE, NITROGEN OXIDES, AND HALOMETHANES



*Edited by John E. Rogers, Environmental Protection Agency, Athens, Georgia,
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