

APPLIED AND ENVIRONMENTAL MICROBIOLOGY

Volume 54

September 1988

No. 9

GENETICS AND MOLECULAR BIOLOGY

- Host Ranges of the IncN Group Plasmid pCU1 and Its Minireplicon in Gram-Negative Purple Bacteria.** B. Rajendra Krishnan and V. N. Iyer 2273–2276
- Bacillus subtilis* β -1,4-Endoglucanase Products from Intact and Truncated Genes Are Secreted into the Extracellular Medium by *Escherichia coli*.** Amy C. Lo, Ron M. MacKay, Vern L. Seligy, and Gordon E. Willick 2287–2292
- Escherichia coli* Spheroplast-Mediated Transfer of pBR322 Carrying the Cloned *Ruminococcus albus* Cellulase Gene into Anaerobic Mutant Strain FEM29 by Protoplast Fusion.** Wei Chen, Kunio Ohmiya, and Shoichi Shimizu 2300–2304
- Electroporation-Induced Transformation of Intact Cells of *Clostridium perfringens*.** Steven P. Allen and Hans P. Blaschek 2322–2324

PHYSIOLOGY AND BIOTECHNOLOGY

- Production by *Streptomyces viridosporus* T7A of an Enzyme Which Cleaves Aromatic Acids from Lignocellulose.** Paula K. Donnelly and Don L. Crawford 2237–2244
- Monoclonal Antibodies to the Cell-Wall-Associated Proteinase of *Lactococcus lactis* subsp. *cremoris* Wg2.** Harry Laan, Eddy J. Smid, Loe de Leij, Edwin Schwander, and Wil N. Konings 2250–2256
- Production of α -Amylase by the Ruminal Anaerobic Fungus *Neocallimastix frontalis*.** Douglas O. Mountfort and Rodney A. Asher 2293–2299
- Effect of Calcium Cation on Plating Efficiency of the Sulfate-Reducing Bacterium *Desulfovibrio vulgaris*.** Rivers Singleton, Jr., Robert B. Ketcham, and L. Leon Campbell 2318–2319

FOOD MICROBIOLOGY

- Effects of Lactic Acid Bacteria and Organic Acids on Growth and Germination of *Bacillus cereus*.** Hin-Chung Wong and Ya-Lei Chen 2179–2184

MYCOLOGY

- Influence of Metabolic and Physical Factors on Production of Diacetoxyscirpenol by *Fusarium sambucinum* Fuckel.** D. Monnet, D. Vidal, and O. Créach ... 2167–2169
- Microbiologically Catalyzed Enantio- and Diastereoselective Oxidation of Chrysanthemol Stereoisomers to Chrysanthemic Acids.** Mahmut Miski and Patrick J. Davis 2268–2272
- Production and Characterization of Monoclonal Antibodies to the Macrocyclic Trichothecene Roridin A.** Rüdiger Hack, Erwin Märklbauer, and Gerhard Terplan 2328–2330

APPLIED ENVIRONMENTAL AND PUBLIC HEALTH MICROBIOLOGY

- Biodegradation of Nitriles in Shale Oil.** Jackie Aislabie and Ronald M. Atlas 2197–2202
- Degradation of Bromacil by a *Pseudomonas* sp.** G. Rasul Chaudhry and L. Cortez 2203–2207

Continued on following page

Demethylation of Dimethylsulfoniopropionate and Production of Thiols in Anoxic Marine Sediments. Ronald P. Kiene and Barrie F. Taylor	2208–2212
Transformations of Halogenated Aromatic Aldehydes by Metabolically Stable Anaerobic Enrichment Cultures. Alasdair H. Neilson, Ann-Sofie Allard, Per-Åke Hynning, and Mikael Remberger	2226–2236
Toxicity and Partial Structure of a Hepatotoxic Peptide Produced by the Cyanobacterium <i>Nodularia spumigena</i> Mertens emend. L575 from New Zealand. W. W. Carmichael, J. T. Eschedor, G. M. L. Patterson, and R. E. Moore	2257–2263
Toxicity of <i>Bacillus sphaericus</i> Crystal Toxin to Adult Mosquitoes. James E. Stray, Marc J. Klowden, and Ronald E. Hurlbert	2320–2321

GENERAL MICROBIAL ECOLOGY

Enumeration of Anaerobic Bacterial Microflora of the Equine Gastrointestinal Tract. Roderick I. Mackie and Clive A. Wilkins	2155–2160
Response in Soil of <i>Cupriavidus necator</i> and Other Copper-Resistant Bacterial Predators of Bacteria to Addition of Water, Soluble Nutrients, Various Bacterial Species, or <i>Bacillus thuringiensis</i> Spores and Crystals. L. E. Casida, Jr.	2161–2166
<i>Chlorella</i> Viruses Isolated in China. Yanping Zhang, Dwight E. Burbank, and James L. Van Etten	2170–2173
Effect of Pentoses and Pentitols on Fermentation of Hay by Mixed Populations of Ruminal Microorganisms. Deborah J. Gascoyne, Michael K. Theodorou, and Michael J. Bazin	2174–2178
DNA Amplification To Enhance Detection of Genetically Engineered Bacteria in Environmental Samples. Robert J. Steffan and Ronald M. Atlas	2185–2191
Plasmid Frequency Fluctuations in Bacterial Populations from Chemically Stressed Soil Communities. Gene S. Wickham and Ronald M. Atlas	2192–2196
Calculation of Cell Production from [³H]Thymidine Incorporation with Freshwater Bacteria. Jan D. Smits and Bo Riemann	2213–2219
Heat Production by the Denitrifying Bacterium <i>Pseudomonas fluorescens</i> and the Dissimilatory Ammonium-Producing Bacterium <i>Pseudomonas putrefaciens</i> during Anaerobic Growth with Nitrate as the Electron Acceptor. M.-O. Samuelsson, P. Cadez, and L. Gustafsson	2220–2225
Study of <i>Vibrio anguillarum</i> Strains from Different Sources with Emphasis on Ecological and Pathobiological Properties. Jens Laurits Larsen, Henrik Berg Rasmussen, and Inger Dalsgaard	2264–2267
Classification and Distribution of Large Intestinal Bacteria in Nonhibernating and Hibernating Leopard Frogs (<i>Rana pipiens</i>). Jeffrey A. Banas, Walter J. Loesche, and George W. Nace	2305–2310
Possible Mechanisms Responsible for the Reduced Intestinal Flora in Hibernating Leopard Frogs (<i>Rana pipiens</i>). Jeffrey A. Banas, Walter J. Loesche, and George W. Nace	2311–2317

METHODS

Combined Oxygen and Nitrous Oxide Microsensor for Denitrification Studies. Niels Peter Revsbech, Lars Peter Nielsen, Peter Bondo Christensen, and Jan Sørensen	2245–2249
Determination of Poly-β-Hydroxybutyrate and Poly-β-Hydroxyvalerate in Activated Sludge by Gas-Liquid Chromatography. Yves Comeau, Kenneth J. Hall, and William K. Oldham	2325–2327

Continued from preceding page

MICROORGANISM-PLANT INTERACTIONS

T-2 Toxin and Diacetoxyscirpenol Metabolism by <i>Baccharis</i> spp. Chester J. Mirocha, Hamed K. Abbas, Linda Treeful, and George Bean	2277-2280
Effect of Plant Species and Environmental Conditions on Ice Nucleation Activity of <i>Pseudomonas syringae</i> on Leaves. R. Douglas O'Brien and Steven E. Lindow	2281-2286

Date of Issue: 1 September 1988